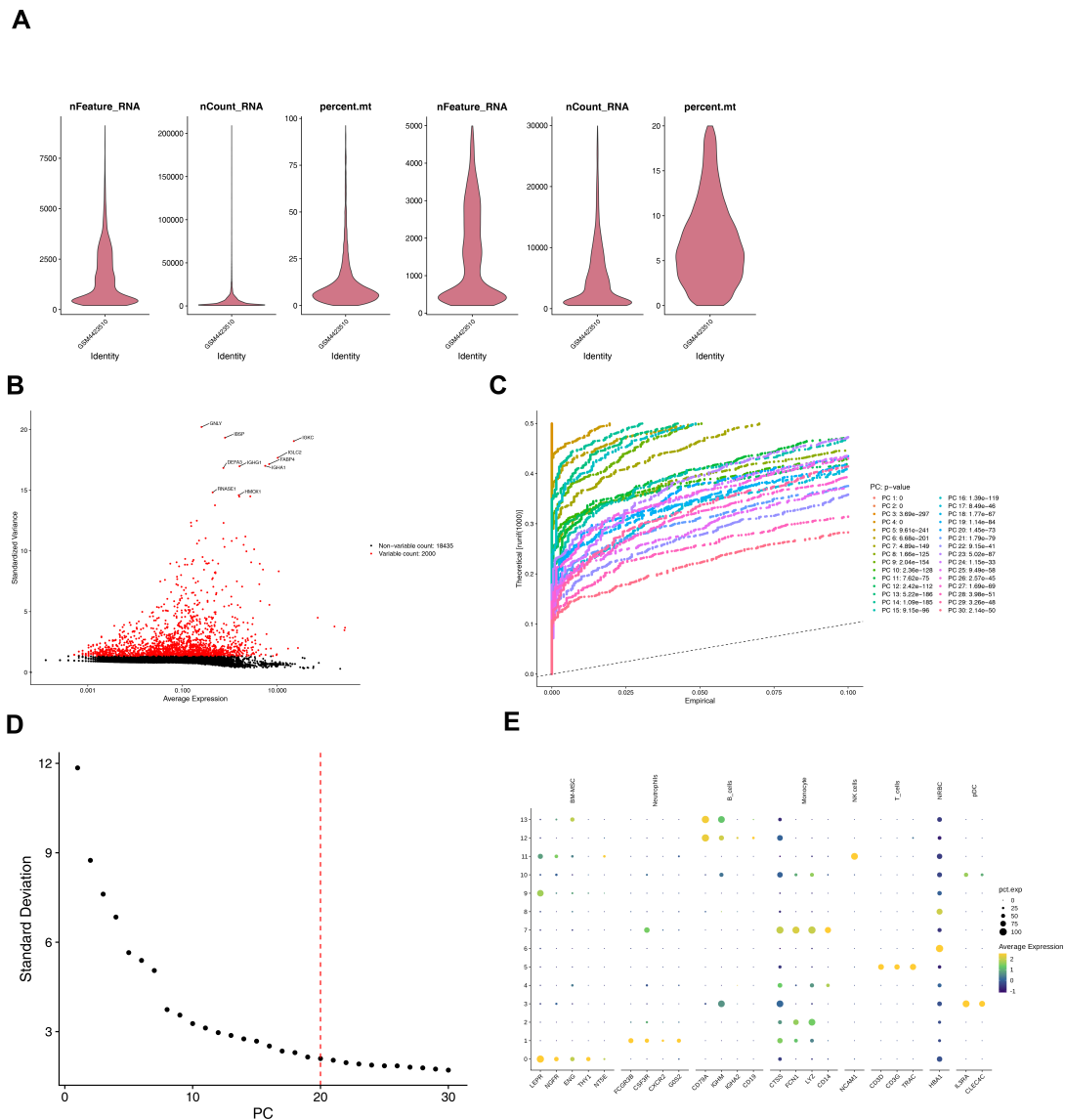


- 1 Figure S1-S2
- 2 Figure S1

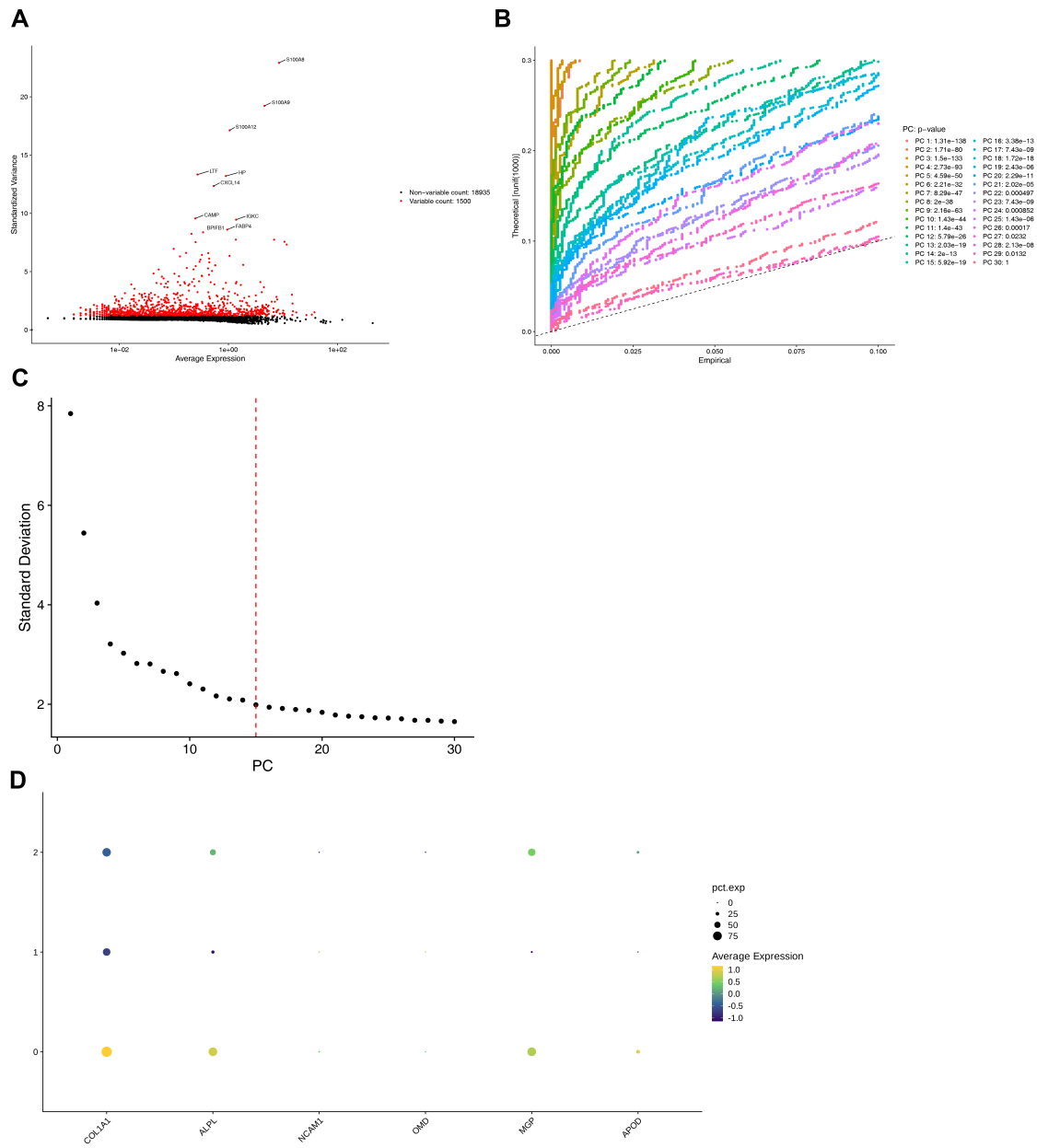


- 3
- 4 Figure S1. Quality control and initial clustering analysis of the osteoporosis scRNA-seq dataset.
- 5 (A) Violin plots showing the distributions of nFeature_RNA, nCount_RNA, and percent.mt before
- 6 and after quality control. (B) Scatter plot showing the top 2,000 highly variable genes. (C)
- 7 JackStraw plot showing the significance of principal components. (D) Elbow plot used to

8 determine the number of significant principal components. (E) Bubble plot showing the expression
 9 of representative marker genes across the 14 initial cell clusters.

10

11 Figure S2



12

13 Figure S2. Re-clustering analysis of BM-MSCs in the osteoporosis scRNA-seq dataset. (A)

14 Scatter plot showing the highly variable genes identified in BM-MSCs. (B) JackStraw plot showing

15 the significance of principal components in BM-MSCs. (C) Elbow plot used to determine the
16 number of principal components for BM-MSC re-clustering. (D) Bubble plot showing the
17 expression of representative marker genes across the three BM-MSC-derived subclusters. BM-
18 MSCs, bone marrow mesenchymal stem cells.
19

Table S1. Plasma protein-related genes (PRGs)

Pro_code	hr	pval_raw
ACE2	1 32576	6.91598e-11
ACOX1	1 15332	0 00100778
ACP5	1 16305	0 03030316
ACRV1	0 89425	0 02443447
ACTA2	1 2034	3 3154E-05
ACTN2	1 11714	0 0172056
ACVRL1	1 47719	2 5393E-05
ACY3	1 16747	0 00098139
ADA2	1 44989	9.24634e-13
ADAM12	1 22891	0 00536558
ADAM15	1 17822	0 02541794
ADAM22	0 85098	0 0122826
ADAM8	1 29606	0 00103262
ADAM9	1 19413	0 04253956
ADAMTS13	0 70726	0 00026001
ADAMTS4	1 25488	0 00182606
ADAMTS8	0 76167	6.68598e-08
ADAMTSL4	1 29688	0 0226076
ADGRE2	1 20396	0 02067296
ADGRF5	1 36031	0 00045269
ADGRG1	1 17487	1 0945E-06
ADIPOQ	1 43219	5.30448e-20
ADM	1 5994	7.18468e-08
AFP	0 92687	0 02120282
AGER	0 89052	0 03440908
AGR2	1 18852	2.04466e-15
AHNAK	0 83326	0 03533677
AHNAK2	0 79466	0 01434701
AHSP	1 06191	0 01921659
AKR1C4	1 09474	0 01640351
AKR7L	1 08363	0 02814094
ALCAM	1 3659	0 00646636
ALDH3A1	1 07364	0 03455517
AMBP	1 3789	0 0045663
ANGPT1	1 06429	0 01831086
ANGPT2	1 12951	0 04402619
ANGPTL1	1 40235	1 1941E-05
ANGPTL3	1 33616	3 3966E-06
ANGPTL4	1 17429	0 00121349
ANXA5	1 15666	0 04956486
APCS	0 81369	0 00484313
APOA2	1 26731	7 6767E-06
APOL1	0 8858	0 00781741
APP	1 07125	0 03734116
AREG	1 37217	1.17759e-12
ARHGEF5	1 11641	0 00091476

ARNT	1	20919	0	00039721
ART3	0	83583	0	00778789
ASGR1	1	24154	0	00548404
ASGR2	1	60621	1	1146E-06
ATP2B4	1	08156	0	03882185
ATP5F1D	1	11154	0	02239571
ATP6V1F	1	08227	0	01913339
ATRAID	1	21032	0	00907507
ATRN	0	61115	0	00148496
AXL	1	21017	0	01849501
B2M	1	32987	4	3398E-07
B4GALT1	1	34451	0	00022963
BAG3	0	89535	0	04704576
BAMBI	1	20176	0	01481089
BCAM	1	34749	0	00105776
BCAN	0	84275	0	00978763
BCHE	0	74427	0	00148994
BGLAP	0	89971	0	00016746
BLOC1S2	1	07675	0	02982336
BMP10	1	44068	0	00010298
BMP6	1	15715	0	00875127
BPIFB2	1	08568	0	02919571
BRK1	1	23592	0	00001756
BRME1	1	16494	0	01415019
BSG	1	57441	8	6148E-05
BST2	1	24777	8.00728e-09	
BTD	0	72249	0	00701482
BTN2A1	1	35026	0	00051465
BTN3A2	1	27291	2	6891E-05
C19orf12	1	07947	0	02669902
C1GALT1C1	1	1761	0	04138884
C1QA	1	92198	2.575e-11	
C1S	0	75133	0	02198806
C4BPB	1	17167	0	00397003
C7	1	58104	1	2629E-07
C9	1	18084	0	00185986
CA12	1	28676	0	00031746
CA14	0	7772	0	00012294
CA2	1	06248	0	04821116
CA3	1	08083	0	02764804
CA6	0	89022	0	00112355
CA9	1	23678	4	8914E-06
CALB1	1	30179	1	0172E-06
CALCA	1	13568	0	00049729
CALCB	1	13918	0	0300792
CANT1	1	24796	0	04561243
CBLN1	1	05469	0	03044872
CBLN4	0	5881	1.83831e-13	

CCL11	1	20272	0	00185782
CCL14	1	19736	0	00107842
CCL15	1	24156	9	3351E-06
CCL17	1	08118	0	00132385
CCL18	1	10409	0	00126994
CCL20	1	09027	0	00018514
CCL21	1	15799	0	00247021
CCL25	1	14853	0	00242783
CCL28	1	13863	0	00035201
CCL3	1	16251	6	7055E-07
CCL4	1	087	0	00439654
CCL5	1	05624	0	01255622
CCL7	1	16778	1	2305E-05
CCL8	1	15074	0	00017246
CCN2	1	10241	0	0117282
CCN4	1	15919	0	00681525
CCN5	0	76595	5	4572E-06
CD14	1	35822	1.35448e-08	
CD163	1	29954	3	0994E-07
CD1C	0	7634	0	00372177
CD200	1	26201	0	00636393
CD27	1	4218	5.45521e-11	
CD274	1	43202	1.00157e-08	
CD276	1	29162	8	9454E-05
CD28	1	18073	0	00487953
CD300A	1	51661	1	9295E-06
CD300C	1	45561	3.57426e-09	
CD300E	1	27074	1	4636E-05
CD300LF	1	11801	0	00387413
CD300LG	1	47277	6.0513e-11	
CD302	1	49648	5.10305e-08	
CD34	0	8247	0	04060656
CD36	1	12361	0	0461898
CD4	1	15413	0	03141477
CD40	1	10397	0	025577
CD46	1	25982	0	00364796
CD48	1	34934	6	0591E-05
CD59	1	36468	0	00191554
CD6	0	89856	0	01050823
CD7	1	21668	0	00083738
CD70	1	15196	0	00765344
CD74	1	40689	3.72947e-08	
CD79B	1	25018	4	3615E-06
CD80	1	48204	1	3524E-07
CD83	1	34949	3	989E-06
CD93	1	24357	0	00344309
CD99	1	27389	0	03584313
CD99L2	1	49951	1	5482E-05

CDA	0	84979	0	00334894
CDCP1	1	25476	2	2175E-07
CDH1	1	20428	0	00081556
CDH15	0	88876	0	01145717
CDH17	1	0698	0	03561221
CDH2	1	48052	7.53048e-10	
CDH5	1	27113	0	00114326
CDH6	1	23342	0	00039634
CDHR5	0	7438	8.88323e-08	
CDNF	0	86298	0	03924071
CDON	0	7644	0	00145927
CEACAM1	1	65723	2	1363E-06
CEACAM16	0	92616	0	0198218
CEACAM5	1	18332	4	0821E-07
CEACAM6	1	2857	3	0391E-05
CEBPB	0	83741	0	00449335
CEND1	1	0977	0	01810629
CES3	0	9332	0	03738328
CFC1	1	13558	0	00626773
CFP	0	77964	0	04897743
CGA	1	15822	5	0056E-06
CHAD	0	65348	2.63207e-18	
CHCHD10	1	3751	4	7287E-07
CHCHD6	1	2392	0	01376234
CHGA	1	2114	1.36038e-12	
CHGB	1	1252	0	03568579
CHI3L1	1	193	2.58703e-10	
CHL1	1	16168	0	03798672
CHRD1	1	50165	3.28813e-08	
CHRD2	0	91517	0	04032485
CIT	1	13982	0	01520365
CKAP4	1	56136	1.47661e-08	
CKB	1	48886	1.6465e-19	
CKMT1A_CKMT1B	1	09418	0	00583861
CLEC11A	1	18518	0	00027173
CLEC14A	1	30132	0	0002035
CLEC1A	1	32136	4	3787E-05
CLEC3B	0	60678	8	2078E-05
CLEC4D	1	13189	0	00067387
CLEC5A	1	42015	6	0475E-06
CLEC6A	1	27235	2	5414E-07
CLGN	1	13197	0	03250604
CLIC5	1	17114	0	03922182
CLSTN2	1	15437	0	01005946
CLUL1	1	11099	0	03173073
CNDP1	0	81435	1	8198E-05
CNTN1	0	78311	0	00238441
CNTN3	0	67306	2.0783e-09	

CNTN5	0	78142	4	996E-05
COL18A1	1	35506	0	00190938
COL1A1	0	55675	5.23698e-12	
COL28A1	0	91793	0	0197492
COL4A1	1	40951	9.37319e-10	
COL6A3	1	22011	0	00242231
COL9A1	1	48471	6.12858e-18	
COLEC12	1	24268	0	01431725
COX5B	1	08551	0	00902283
CPA2	1	08827	0	01256297
CPE	0	8282	0	00072781
CPOX	1	20235	0	04391984
CPPED1	1	07824	0	02349447
CREG1	1	26257	7	525E-05
CRELD1	1	31993	6	1696E-05
CRIM1	1	90339	3.21179e-09	
CRLF1	0	68922	2	6679E-05
CRTAM	1	17709	0	00021827
CSDE1	1	05016	0	01849883
CSF1	1	66722	2.48002e-10	
CSF1R	1	24785	0	00068909
CSF2RB	1	12954	0	04620962
CSF3R	1	20339	0	02801943
CSNK2A1	1	19835	0	00133659
CSPG4	1	2185	0	01201773
CSRP3	1	08604	0	00114032
CST3	1	37121	7	6923E-05
CST6	0	89095	0	01580592
CST7	1	05039	0	02680241
CSTB	1	22527	0	00010643
CTRL	1	07962	0	04749313
CTSB	1	20874	2	1743E-06
CTSC	1	14254	0	00869532
CTSD	1	17559	0	0040582
CTSF	1	31335	1	0442E-06
CTSH	1	07456	0	01861968
CTSL	1	44126	5	664E-05
CTSO	1	31868	0	00017008
CTSV	0	85849	0	00613027
CTSZ	1	5321	2.64805e-09	
CWC15	1	10505	0	00802322
CX3CL1	1	49866	7.25707e-10	
CXADR	1	22277	4	2147E-07
CXCL10	1	17379	3	0928E-07
CXCL11	1	13745	9	4359E-07
CXCL12	1	35293	1.0514e-08	
CXCL13	1	1317	0	00019403
CXCL16	1	36769	0	00113438

CXCL8	1	07401	0	02111226
CXCL9	1	28035	4.82026e-17	
DCBLD2	1	40764	1	3638E-07
DCTPP1	1	23023	0	00433396
DDAH1	1	15125	0	00363253
DDC	1	16656	0	00089592
DDR1	1	52841	1	1762E-05
DDX58	1	08178	0	03222903
DEFA1_DEFA1B	1	17627	3	2342E-05
DEFB118	1	10141	0	01606757
DIPK2B	1	22035	0	03795482
DKK3	1	21003	0	01095036
DKK4	1	10328	0	0397631
DLK1	0	8471	8	7414E-05
DLL1	1	55397	6.35687e-09	
DNAJB8	1	07594	0	04883234
DPP10	1	23245	0	0007675
DPP4	0	7587	0	00052171
DPP7	1	17616	1	9645E-05
DPY30	1	09319	0	01275962
DRAXIN	1	1315	0	01776778
DSC2	1	54482	5.37099e-11	
DSG2	1	60546	8.21691e-09	
DSG3	0	87031	0	0365036
DTNB	1	18	0	00689367
DUSP13	0	76909	0	00010901
EBI3_IL27	1	64559	8.1811e-13	
ECM1	0	87153	0	04628587
ECSCR	1	11722	0	01043763
EDA2R	1	70759	1.12322e-18	
EDAR	0	9302	0	00296409
EDDM3B	0	83798	0	0030471
EDN1	1	35894	0	00072698
EFCAB14	1	25804	0	00953292
EFEMP1	1	48617	4.2096e-08	
EFNA1	1	2879	0	00193018
EFNA4	1	36337	2	6342E-05
EGFL7	1	32307	1	1733E-07
EGFR	0	32688	8.92246e-17	
EIF2S2	1	18767	0	00253568
EIF4EBP1	1	10043	0	00458813
ELN	1	39778	4	2457E-06
ENDOU	0	82251	0	00047073
ENO3	0	80277	1	6736E-05
ENPP2	1	31346	0	00055756
ENPP5	0	83653	0	00017682
ENPP6	0	86813	0	04980895
ENTPD2	1	11159	0	04290053

ENTPD5	1	37159	0	00310553
ENTPD6	1	31168	0	00153621
EPCAM	1	04423	0	0468389
EPHA2	1	53185	3.31584e-10	
EPHB4	1	58641	2	3623E-07
EPHB6	1	24428	0	00245486
EPO	1	07776	0	00843675
ESAM	1	28598	0	00036575
ESM1	1	4724	1.79878e-09	
EXTL1	0	84628	0	00707834
F10	0	7491	0	00373719
F11	0	78658	0	00967019
F13B	0	81587	0	04256015
F3	1	26151	0	00395345
FABP1	1	11955	1	5322E-06
FABP2	1	11332	0	00014256
FAM3B	1	16519	0	01862307
FAM3C	1	27965	0	00134329
FAM3D	1	10196	0	00155537
FAP	0	61294	3.17752e-09	
FAS	1	22226	0	0006988
FASLG	0	83572	0	00287454
FBLN2	1	31094	0	00125043
FCAR	1	18098	0	00032838
FCN2	0	89533	0	03201043
FCRL1	0	89642	0	02914855
FCRLB	1	10763	0	00381173
FDX1	1	13227	0	00068546
FGF5	1	15028	0	04443716
FGF6	1	12859	0	03221542
FGFBP1	0	79179	0	00095933
FGFBP2	0	79529	1	4925E-05
FGFR2	1	43534	0	00065751
FGL1	1	30529	4.60393e-11	
FKBP4	1	13168	0	01398461
FOLR1	1	3825	4	4057E-05
FOLR2	1	32724	0	00020093
FOS	1	16642	0	0406983
FRZB	1	1935	0	04669265
FSHB	1	23402	1	4939E-07
FSTL1	1	71252	4	5985E-07
FSTL3	1	34712	3	2519E-05
FUCA1	1	07283	0	01194151
FUT3_FUT5	1	34181	8.56576e-10	
FZD8	1	14229	0	01421942
GAL	0	89725	0	00248151
GALNT10	1	34923	0	00022819
GALNT2	0	82235	0	0248794

GALNT7	0	80211	0	03809015
GAS6	1	33806	0	00081321
GASK1A	0	88115	0	04077044
GAST	1	11438	2.88651e-09	
GBP1	1	12199	0	00291447
GCHFR	1	17872	0	00133608
GCNT1	1	24321	0	00068317
GDF15	1	66796	5.05538e-30	
GDF2	1	1965	0	00393341
GFAP	1	12209	0	01443413
GFRA1	1	2768	0	00253929
GFRA2	1	33932	0	00453761
GGT1	1	15854	0	00088038
GH1	1	02877	0	0276594
GHR	0	51342	5.743e-13	
GIP	1	09365	0	04241352
GIPC2	1	54469	1	4936E-07
GLB1	1	12531	0	03055162
GLO1	1	12137	0	00251899
GM2A	1	21649	0	00112341
GNPDA2	0	85046	0	02904023
GOLM2	1	32214	0	00304924
GPKOW	1	17117	0	02407188
GPRC5C	1	10656	0	02367744
GRN	1	51714	5	3559E-06
GRPEL1	1	17353	7	7491E-06
GSN	0	68333	0	00690455
GSTM4	1	10472	0	0033093
GUCA2A	1	42024	1	7215E-07
GZMB	0	91926	0	02008757
HAVCR1	1	20387	2	5645E-07
HAVCR2	1	54042	8.03729e-12	
HCG22	1	0884	0	04787602
HEPH	0	79899	0	02217244
HGF	1	21896	0	00248909
HIP1	1	17168	0	02720424
HIP1R	1	19451	0	00037108
HLA-A	1	18262	0	03373517
HLA-E	1	41552	2	9428E-06
HMOX1	1	13147	0	00758097
HMOX2	1	12004	0	01349726
HNMT	1	12287	0	01643385
HPGDS	0	67024	1.33179e-10	
HSD11B1	1	27351	2	7987E-05
HSPB6	1	21456	0	00120425
HSPG2	1	22106	0	02424803
HYAL1	1	38798	0	0007668
ICAM1	1	359	7	5973E-05

ICAM2	1	26677	0	00081626
ICAM3	1	42127	4	1322E-05
ICAM5	1	12762	0	01790346
IDUA	1	14303	0	00662348
IFI30	1	40608	1	7451E-07
IFIT1	1	11586	0	02042926
IFNG	1	05559	0	00794556
IFNGR1	1	42435	0	0009272
IFNGR2	1	11253	0	0113274
IFNL1	1	19315	0	00026497
IGDCC4	0	58279	2.78858e-08	
IGF1R	1	22621	0	04435535
IGF2BP3	1	12553	0	0254453
IGFBP1	1	09126	4	7919E-06
IGFBP2	1	45148	8.13792e-23	
IGFBP3	0	74759	0	00020111
IGFBP4	1	32431	1	3101E-07
IGFBP7	1	40123	2	8354E-06
IGFBPL1	1	43884	2.67215e-08	
IGLC2	1	29744	0	00144321
IGSF21	0	86819	0	04285344
IGSF3	1	18121	0	00998224
IGSF8	1	23722	0	00429591
IGSF9	0	88202	0	00018823
IL10	1	10937	2	4312E-05
IL10RB	1	30538	0	00049713
IL12A_IL12B	1	07962	0	00805716
IL12B	1	0916	0	03310573
IL12RB1	1	1771	0	00545963
IL15	1	63723	2.36833e-13	
IL15RA	1	2529	0	0005965
IL17C	1	09517	0	00290337
IL17RA	1	16834	0	0020848
IL17RB	1	15191	0	00101592
IL18BP	1	47898	3.39449e-08	
IL18R1	1	25626	0	00074159
IL19	1	10312	0	00247713
IL1R1	1	9076	9.19568e-11	
IL1RL1	1	27993	4	5141E-07
IL2	1	18619	0	01704295
IL22	1	1091	0	00460268
IL2RA	1	46854	2.60578e-13	
IL2RB	1	14399	0	01264364
IL32	1	40495	1.75346e-11	
IL33	1	18587	0	00369942
IL4R	1	33499	7	1653E-07
IL5RA	1	14686	0	00055005
IL6	1	1369	1	5824E-06

IL6ST	1	63488	0	00013962
IMMT	1	17654	0	00307771
INHBB	1	17756	0	00103601
INSL5	1	07633	0	00545635
ISM1	1	21328	0	0008893
ITGA11	0	80688	0	00132728
ITGA2	0	75845	0	00035349
ITGA5	1	51719	3	7279E-06
ITGAM	0	82245	0	0066264
ITGAV	0	56851	5	2391E-05
ITGB6	0	79293	0	0023545
ITGB7	1	11044	0	02900955
ITIH3	1	28245	4	2121E-05
IZUMO1	0	88007	0	03681565
JAM3	1	16761	0	00230435
JUN	1	13299	0	00117844
KDR	0	79851	0	00990254
KIF1C	1	19336	0	00900875
KIR2DL2	1	08779	0	00424666
KIRREL2	1	21082	0	00058242
KITLG	0	84047	0	00522376
KLB	1	09056	0	00431162
KLK1	1	04101	0	01858158
KLK11	1	20474	0	00565433
KLK3	0	92644	0	03247721
KLK4	1	0987	0	01075961
KLK7	0	74861	5	5498E-05
KLKB1	0	7047	0	00093165
KLRD1	0	90655	0	04204728
KRT18	1	11497	0	00012747
KRT19	1	22862	6.63141e-11	
KRT8	1	13292	0	00046724
LACRT	0	89372	0	03613653
LAG3	1	15457	0	00849849
LAIR1	1	25591	0	00013712
LAIR2	1	0722	0	00140978
LAMP3	1	21887	3	1134E-06
LAYN	1	38884	6	3094E-07
LCAT	0	59405	1	1386E-05
LCN15	1	08409	0	03593515
LCN2	1	21503	0	00064478
LDLR	0	77129	3.64197e-09	
LEO1	1	23224	0	00092402
LEPR	1	36542	1	0266E-05
LETM1	1	13723	0	00675575
LGALS1	1	1688	0	01541351
LGALS3	1	21252	0	01055088
LGALS3BP	1	17903	0	0457514

LGALS4	1	25664	2.83562e-08
LGALS9	1	51599	2.30952e-09
LGMN	1	24304	0 00037081
LIF	1	10666	0 01344456
LIFR	1	50802	1 2675E-05
LILRA2	1	16831	0 01462279
LILRA4	1	10395	0 03743953
LILRA5	1	47871	3.5899e-08
LILRB2	1	14832	0 03183657
LILRB4	1	33126	3.21636e-08
LMNB2	1	61894	2.66495e-08
LMOD1	1	34706	4 2324E-06
LPL	1	31806	4.68103e-08
LRG1	1	33043	0 00358256
LRP1	1	36042	0 0001904
LRP11	1	16689	0 01387919
LRRC25	1	15131	0 01257865
LRRN1	0	59453	1.67367e-18
LRTM2	1	23448	0 02375917
LTBP2	1	61561	4.78933e-12
LTBP3	1	10228	0 0152821
LTBR	1	57598	6.62981e-09
LUZP2	1	1766	0 00245488
LY96	1	16161	0 01505111
LYPD8	1	15086	0 0011628
LYZL2	0	83644	0 02558841
MAD1L1	1	15295	0 0002986
MAEA	1	13739	0 01588645
MANSC1	1	56472	3.87846e-08
MAPT	1	09801	0 03284605
MARCO	1	35769	0 00039919
MASP1	0	78996	0 01422292
MATN2	1	16622	0 04277048
MATN3	1	26585	0 00070475
MCAM	1	16287	0 0232869
MCFD2	1	13014	0 01726815
MDK	1	17547	2 9869E-05
MEGF9	0	77944	0 02825341
MEP1B	0	94443	0 00186421
MEPE	0	61277	1.01286e-09
MERTK	1	5654	1 5401E-07
MFAP5	0	87331	0 01401529
MICB_MICA	1	03505	0 02852203
MILR1	1	19466	5 8433E-05
MME	1	07046	0 01231372
MMP3	1	21349	3 5802E-05
MMP7	1	17413	0 00095751
MMP8	1	06825	0 0272057

MMP9	1	10951	0	00524619
MRC1	1	71448	4.28174e-10	
MSLN	1	17108	3	7923E-05
MSR1	1	17345	0	00176711
MSTN	0	7916	1	3059E-07
MTHFD2	1	24565	0	01111625
MUC2	1	06374	0	02530945
MYBPC1	1	1147	0	00452305
MYL3	1	09267	0	01835744
MZB1	1	15154	0	00072917
NAAA	1	1288	0	00103742
NBL1	1	28582	0	00375903
NCAM1	0	82966	0	01717499
NCLN	1	10754	0	00712038
NCR1	1	2168	0	00147999
NCR3LG1	1	55013	9.34847e-09	
NECTIN2	1	71028	1.18996e-12	
NECTIN4	1	33551	8	5432E-05
NEFL	1	33017	3.38966e-08	
NELL2	1	2918	0	0007043
NFASC	1	26961	0	00360067
NGFR	1	21577	0	01583772
NGRN	1	31253	0	01083431
NHLRC3	1	2347	0	01492557
NID1	1	25647	4	4383E-05
NID2	1	06881	0	02198805
NINJ1	1	09752	0	00986685
NMI	1	08193	0	02938885
NOS1	1	09514	0	04715646
NOS2	1	28206	3	3412E-05
NOS3	1	11077	0	00925345
NOTCH3	1	21477	0	00312923
NPC2	1	30778	0	00051662
NPDC1	1	36386	7	6256E-06
NPTXR	1	14234	0	04445133
NPY	0	887	0	00038529
NRCAM	1	20249	0	01756359
NRP1	1	32444	0	00047365
NRP2	1	31608	0	00037883
NRTN	1	09172	0	04268093
NT5C1A	1	36715	8	2135E-06
NTRK2	0	81062	0	01803633
NTproBNP	1	09217	5	1837E-05
NUBP1	1	05746	0	02574961
NUDT10	1	25828	0	01097171
NXPH1	1	14555	0	02246691
OBP2B	0	92766	0	03349786
OCN	1	41914	1.11912e-09	

ODAM	0	89674	0	01004203
OLR1	1	09656	0	01221819
OMD	0	89292	0	02620438
OPTC	1	13093	0	00936566
OSCAR	1	48122	4.71213e-09	
OSM	1	0739	0	02340761
OSMR	1	47786	0	00033503
OXT	0	92943	1	3294E-05
PADI2	1	11647	0	0025211
PAEP	0	94181	0	00821476
PAFAH1B3	1	05791	0	00529424
PALM2	1	3646	7	3255E-06
PAMR1	0	74207	0	00024525
PAPPA	1	1981	0	00024721
PCDH12	1	63806	3	5248E-07
PCDH17	1	21771	0	00177197
PDCD1	1	30254	9.64558e-08	
PDCD1LG2	1	28269	0	00037006
PDCD6	1	11392	0	00216811
PDGFB	1	05908	0	02543605
PDIA3	1	24412	0	02118278
PEAR1	1	24679	0	02613211
PGA4	1	12175	0	00220933
PGF	1	44935	2	3456E-05
PGLYRP1	1	15842	0	00406666
PHOSPHO1	1	17814	0	02639208
PIGR	1	4549	4.03518e-09	
PIK3IP1	1	32346	0	00078107
PILRA	1	31454	5	2065E-07
PILRB	1	18593	2	7819E-05
PINLYP	0	9039	0	00716399
PITHD1	0	92114	0	02220171
PLA2G10	1	20624	6	3676E-07
PLA2G15	1	90589	1.19843e-14	
PLA2G2A	1	13239	0	00060722
PLAU	1	17042	0	02791186
PLAUR	1	84854	6.23729e-14	
PLB1	0	88016	0	00242946
PLG	0	79002	0	04845306
PLIN3	1	16081	0	00323408
PLTP	1	30635	5	7192E-05
PLXNB2	1	42889	0	00016615
PM20D1	0	9666	0	00531088
PODXL2	1	33765	0	00033079
POF1B	1	22894	4	8245E-05
POLR2F	1	15298	0	01591901
POMC	0	88906	0	00284604
PON1	0	75415	0	00298733

PPP1R14D	1	26856	0	00010613
PRCP	1	16505	0	03008709
PREB	1	1711	0	02806832
PRG2	1	27707	5	7439E-07
PRG3	1	12866	0	019233
PROK1	0	90234	0	0067644
PROS1	0	66351	0	00011363
PRR5	1	11524	0	03791903
PRRT3	1	20764	0	00624132
PRSS22	1	16357	0	02750806
PRSS53	1	28275	0	00027955
PRSS8	1	17423	0	00350314
PRTN3	1	14637	0	00208662
PSAP	1	28896	0	0028954
PSG1	1	05282	0	00905809
PSMD1	1	12031	0	02225917
PSME2	1	19154	0	00336318
PSMG4	1	09059	0	04341929
PSRC1	0	91229	0	02505451
PTH1R	1	11353	0	03354733
PTK7	1	13705	0	03263847
PTN	1	21296	2	0512E-05
PTPRH	0	88227	0	02150395
PTPRN2	1	26142	0	00097868
PTX3	1	13024	0	00981362
PVR	1	33563	7	8421E-07
PYY	1	09506	0	00057599
RAB6A	0	84016	0	00043271
RARRES2	1	11316	0	02180464
RBFOX3	1	38837	1.23524e-09	
RBKS	1	10966	0	01808313
RBM19	1	12159	0	023565
RBP2	1	13959	6	1699E-06
RBP5	1	09175	0	03064491
RBPMS	1	07482	0	03751657
REG1A	1	25738	3.84768e-08	
REG1B	1	15653	6	6855E-05
REG3A	1	18473	8	3823E-07
REG4	1	15741	0	0012883
RELT	1	45639	2	7181E-06
REN	1	14515	5	5718E-06
REPS1	0	85948	0	03141959
RET	0	71342	3.27049e-09	
RETN	1	19479	0	00063259
RLN2	0	91566	0	01382559
RNASE1	1	3103	0	0085419
RNASE10	1	11993	0	02100933
RNASE6	1	38604	5	0295E-05

RNASET2	1	65633	1.05854e-10
RNF149	1	51272	1 9993E-07
ROBO1	1	37846	0 00050303
ROR1	1	23207	0 00308131
RRM2	1	2059	1 276E-06
RSPO1	1	3241	1 4748E-05
RSPO3	1	18017	0 03743142
RTN4R	0	84447	0 01094026
S100A4	0	91563	0 02420477
S100G	1	19967	0 00078729
SCARB2	1	50329	1.2026e-08
SCARF2	1	37032	5 5535E-05
SCG2	1	15933	0 03905439
SCG3	1	23103	0 00173661
SCGB1A1	0	90908	0 01359539
SCGB3A1	1	35887	0 00299451
SCGB3A2	1	0764	0 00145819
SCGN	1	15574	0 00364266
SCPEP1	1	1598	0 00510975
SCRG1	1	29531	0 00537008
SDC1	1	35436	4.86306e-08
SEL1L	1	31958	2 6308E-05
SELENOP	0	71939	0 00494112
SELPLG	0	77321	0 00124476
SEMA3F	1	24666	0 00908338
SEMA3G	1	13498	0 03176021
SEMA4D	1	15975	0 04506737
SEMA7A	1	20801	0 02287667
SEPTIN3	1	08436	0 01573654
SEPTIN8	1	6193	7.05381e-13
SERPINA1	3	13514	3 5911E-05
SERPINA11	1	54998	4.91283e-15
SERPINA3	1	52364	0 01458043
SERPINA4	0	73556	0 00475217
SERPINA5	0	79208	0 00652078
SERPINF2	0	65705	0 02747307
SEZ6	1	19456	0 03183725
SEZ6L	1	19382	0 03146296
SEZ6L2	1	25493	0 01964478
SFRP1	1	16656	0 00262304
SFRP4	0	67723	7.52667e-09
SHBG	1	44364	2.03504e-12
SHISA5	1	38863	0 00020837
SIAE	1	13148	0 00931754
SIGLEC1	1	30665	2 412E-07
SIGLEC10	1	23375	0 00135445
SIGLEC6	1	1719	0 01884696
SIGLEC8	1	14204	0 02265508

SIGLEC9	1	16101	0	04911274
SIRPB1	1	23062	1	6256E-05
SLAMF1	1	14885	0	00037616
SLAMF7	1	18202	1	386E-05
SLAMF8	1	27801	9.17725e-09	
SLC39A14	1	16497	0	01529117
SLC51B	1	07064	0	03338758
SLITRK6	1	23877	0	00093365
SMAD5	0	6362	2	347E-05
SMOC1	1	17279	0	01994465
SMOC2	0	82735	0	00150755
SMPD1	1	41257	4.35975e-15	
SMPDL3A	1	10181	0	00527667
SNCG	1	07624	0	0326537
SNX2	1	07956	0	01135137
SOD2	1	13885	0	02609281
SORCS2	1	25046	0	00052948
SOST	0	54811	3.91657e-25	
SPINK1	1	32574	3.42888e-08	
SPINK2	0	84935	0	0209721
SPINK4	1	24134	2.5255e-11	
SPINK5	0	87202	0	04698717
SPINT1	1	39292	0	00024463
SPINT2	1	24343	8	7732E-05
SPINT3	0	96102	0	03225752
SPON1	1	49032	2.07671e-09	
SPON2	1	56788	3.13861e-12	
SPP1	1	10572	0	0385646
SRPX	1	58075	2.29058e-09	
SSC4D	0	90709	1	3988E-05
ST6GAL1	1	25526	0	00274323
STC1	1	10956	0	04602151
STX5	1	12296	0	04068099
STX7	0	87012	0	00782576
SULT2A1	1	19436	2	045E-06
SUSD5	1	25711	0	003679
SYT1	1	12865	0	03687118
TAFA5	1	14891	0	02910972
TCL1A	0	94291	0	01123519
TCN2	1	34785	7	9446E-06
TFF1	1	0986	0	00043869
TFF2	1	21957	1	9258E-07
TFF3	1	21739	1	2771E-05
TFPI2	1	21681	0	00016417
TFRC	1	2111	0	00093531
TG	1	04412	0	04627451
TGFA	1	24404	3	1344E-06
TGFB1	1	19801	0	00181006

TGFBR1	1	25871	0	04761143
TGFBR2	1	33428	3	2698E-05
TGFBR3	1	36544	1	1923E-05
TGOLN2	1	48221	6	8272E-05
THBD	1	18287	0	03609347
THBS2	1	41634	4.49207e-09	
THY1	1	20778	0	01894679
TIGIT	1	21849	0	00275868
TIMD4	1	34713	3.47103e-09	
TIMP1	1	58882	1.58504e-09	
TIMP3	1	05055	0	00253712
TIMP4	1	49448	3.47508e-17	
TINAGL1	1	33863	0	00400581
TLR1	1	24442	0	02397014
TLR2	1	26467	0	03305906
TNC	1	28026	6.90528e-08	
TNF	1	39818	1.51861e-10	
TNFRSF10A	1	47194	7.44861e-11	
TNFRSF10B	1	25979	3.14099e-10	
TNFRSF10C	1	14523	0	00262546
TNFRSF11A	1	3287	1	33E-06
TNFRSF11B	1	45739	7	8013E-07
TNFRSF12A	1	32108	2	0676E-05
TNFRSF14	1	42532	1	5339E-06
TNFRSF17	1	1566	0	02374422
TNFRSF1A	1	574	1.58667e-09	
TNFRSF1B	1	6454	3.20873e-15	
TNFRSF21	1	4044	2	7381E-05
TNFRSF4	1	59432	9.67998e-17	
TNFRSF6B	1	24468	5.28546e-09	
TNFRSF8	1	342	1.36864e-10	
TNFRSF9	1	34449	2.61837e-09	
TNFSF11	0	83478	1	0018E-06
TNFSF13	1	55849	9.78313e-08	
TNFSF13B	1	4232	1	9623E-06
TNFSF14	1	13196	0	0011741
TNFSF8	1	3014	0	00023455
TOP1	0	92274	0	00096001
TPP1	1	28277	4.61544e-08	
TPR	1	12815	0	007011
TREM2	1	10093	0	02737869
TRIM21	0	92454	0	00572137
TSHB	0	91476	0	00086935
TSPAN1	0	86639	0	00719378
TSPAN8	1	06364	0	01236513
TTN	1	11099	0	00293803
TTR	0	63288	8	7433E-06
TXNDC15	1	33616	0	00032506

TXNDC5	1	07569	0	02589547
TXNL1	1	06206	0	01563598
TYMP	1	0804	0	02181945
ULBP2	1	3134	5	4766E-06
UXS1	1	12129	0	00330925
VAMP5	1	14953	8	4475E-05
VAT1	0	75342	0	01461487
VCAM1	1	75762	3.03215e-12	
VCAN	1	47643	7.52331e-08	
VEGFA	1	14262	0	00030099
VEGFB	1	21475	0	03708909
VNN1	0	90926	0	00630805
VNN2	1	15678	0	0038098
VSIG2	1	29129	1.51446e-09	
VSIG4	1	43408	1.08862e-10	
VSIR	1	07667	0	03742576
VSTM1	1	13416	0	00550273
VWA1	1	18975	0	00110288
VWF	1	07029	0	02426103
WARS	1	20283	0	00198752
WFDC1	1	11418	0	00920599
WFDC2	1	58001	5.89377e-15	
WFIKKN1	0	71986	3.27998e-09	
WIF1	0	77832	0	00014192
WNT9A	1	31722	0	00016634
XCL1	1	11682	0	0040159
YAP1	1	40807	0	00025258
ZBTB17	1	27342	4.96982e-08	
ZNF830	0	91156	0	00862645

Table S2. Osteoblast-related module genes

Gene name	module	color	kME_grey	kME_turquoise	kME_blue	kME_brown
ISG15	blue	blue	0.0785615270	-0.0728259	0.2285686727	0.0205350483914294
SDF4	blue	blue	0.1947548084	0.0705872781	0.2094227551	0.148649562702832
AURKAIP	blue	blue	0.1280452902	-0.02284176	0.2662461449	0.0379480932467837
MRPL20	blue	blue	0.1488775730	0.0251744781	0.2442834487	0.0751025216054004
VWA1	blue	blue	0.1904629306	0.0651371970	0.1991280259	0.0835389191934424
GNB1	blue	blue	0.1836978993	0.0742823095	0.1431227063	0.122466244122577
FAAP20	blue	blue	0.1266532971	0.0515964684	0.1689741813	0.0878964663981812
RER1	blue	blue	0.2104922944	0.0816106965	0.2843033377	0.114802190618218
SMIM1	blue	blue	0.0636964956	-0.02469366	0.1514623870	0.0404517625276052
RPL22	blue	blue	-0.01509361	-0.25500048	0.3449029742	-0.07419794
ICMT	blue	blue	0.1567202031	0.0486648380	0.1283491965	0.105515069933701
GPR153	blue	blue	0.1003818910	-0.02199591	0.1242931176	0.0936277997842761
PARK7	blue	blue	0.1552088924	-0.09126726	0.4224375775	0.0146346321958695
ENO1	blue	blue	0.1324764109	-0.07060717	0.3095592555	0.0162305561078089
LZIC	blue	blue	0.0383012733	-0.02963692	0.1346289196	-0.01172752
SRM	blue	blue	0.0847549053	-0.00558381	0.1484349791	0.0229954704968083
UBIAD1	blue	blue	0.0987970604	0.0786732783	0.0551957364	0.0600675704281846
MAD2L2	blue	blue	0.0813928190	-0.00065549	0.1124329513	0.00993338177123008
AGTRAP	blue	blue	0.1102266796	0.0289267224	0.1691193684	0.0420036331935181
DHRS3	blue	blue	0.1544148147	0.0465382589	0.1881011522	0.150254318031956
EFHD2	blue	blue	0.0669493528	0.0128816696	0.0963364696	0.0039627319622061
SDHB	blue	blue	0.1224147120	0.0527641470	0.1574646193	0.0391630931288745
MRT04	blue	blue	0.1199018133	0.0286276457	0.1384700354	0.0659303930972897
AKR7A2	blue	blue	0.0923685637	-0.03689319	0.2239906586	0.0319211203539343
CAPZB	blue	blue	0.1292379099	0.0184541180	0.1665930327	0.0794001694955795
MINOS1	blue	blue	0.1340706905	-0.06712109	0.3533510017	0.0296716435398847
NBL1	blue	blue	0.1156809874	0.0509746015	0.1147266484	0.0723671544190607
TMCO4	blue	blue	0.0623855563	0.0591878643	0.0407101779	0.0485891737221198
MUL1	blue	blue	0.0781413263	0.0221654202	0.0767421052	0.0736033907578902
DDOST	blue	blue	0.1375722834	0.0258398497	0.1949310465	0.101733995371097
CDC42	blue	blue	0.2635489084	0.1098912151	0.2708088406	0.181240022070813
ID3	blue	blue	0.1553201544	0.0776494754	0.1866284763	0.10338365934643
RPL11	blue	blue	-0.0294471	-0.32916373	0.4725339396	-0.09958369
HMGCL	blue	blue	0.1043223210	0.0377820512	0.1376482104	0.075192312918975
FUCA1	blue	blue	0.0821002146	0.0040415789	0.1478519636	0.0410694693894451
SYF2	blue	blue	0.0831710111	-0.01439645	0.1536892331	0.00466200810332243
TMEM50A	blue	blue	0.2555435896	0.0505248083	0.3625266498	0.184229717172303
MAN1C1	brown	brown	0.1637057975	0.0671333428	0.1246842410	0.274226744636772
ZNF593	blue	blue	0.0975648450	0.0244559523	0.1285235767	0.0330532362337055
SH3BGRL	blue	blue	0.0055050162	-0.09522989	0.1477044172	-0.0509545
HMG2	blue	blue	0.1302646422	0.0124008843	0.1770509320	0.0554741853471047
NUDC	blue	blue	0.1598719994	0.0395069925	0.2155095834	0.0567807411563599
TMEM222	blue	blue	0.1260045297	0.0689617625	0.0957414184	0.0813278912528707
MAP3K6	blue	blue	0.0903781634	0.0977752211	0.0470031087	0.0485552950428006
WASF2	blue	blue	0.2940685029	0.1787361716	0.2320940841	0.184968702067334
IFI6	blue	blue	0.1537571149	-0.05603963	0.3289717421	0.119177027879589

RPA2	blue	blue	0.0681533588	0.0189813538	0.1040605071	0.0651187396	768513
DNAJC8	blue	blue	0.1678908365	0.0363249106	0.2427912284	0.1005094037	8541
ATP5IF1	blue	blue	0.1465653822	0.0002549269	0.2819307251	0.0842823881	1304724
YTHDF2	blue	blue	0.1205140044	0.0536328430	0.1249462848	0.0954922719	709859
ZCCHC17	blue	blue	0.0889581106	-0 00084372	0.1541976717	0.0317012005	574482
CCDC28B	blue	blue	0.1088008066	0.0375804136	0.1482031980	0.0119675969	524512
EIF3I	blue	blue	0.0849255977	-0 03296842	0.2016238698	0.0316267477	571645
HDAC1	blue	blue	0.1170230461	0.0642260507	0.1020880615	0.0633081497	061577
MARCKS1	blue	blue	0.1439061570	0.0273235748	0.1569020989	0.0572143759	646525
TMEM54	blue	blue	0.0609506007	-0 02452897	0.1624288024	0.0145523528	712519
AK2	blue	blue	0.1252327723	0.0769311100	0.1015400865	0.0327445132	827484
PSMB2	blue	blue	0.1254479624	0.0348823497	0.1891499437	0.0511933437	052852
C1orf216	blue	blue	0.0985726418	0.0414040579	0.0988854368	0.0391695462	995564
EVA1B	blue	blue	0.2153277917	0.0382165880	0.2555037206	0.1080701175	9245
STK40	blue	blue	0.0835280547	0.0218428456	0.0871108750	0.0698671122	858981
LSM10	blue	blue	0.0640167129	-0 04826127	0.1758620359	0.0111643249	035376
MRPS15	blue	blue	0.0710152645	-0 03464122	0.2198345569	-0 00075547	
DNALI1	blue	blue	0.0624053066	0.0490489597	0.0602981999	-0 0024652	
GNL2	blue	blue	0.1370989026	0.0874106120	0.0781618091	0.0782812565	50215
C1orf122	blue	blue	0.1331171337	-0 04418121	0.3328023107	0.0651166222	558035
FHL3	blue	blue	0.0421789355	-0 02096881	0.0682760908	-0 03362661	
NDUFS5	blue	blue	0.0422690175	-0 12503118	0.2472968662	-0 01774401	
HEYL	blue	blue	0.0936911465	0.0189632160	0.1019835571	0.0274221457	889136
CAP1	blue	blue	0.2039353788	0.0612512704	0.2039810431	0.1144427189	37687
PPT1	blue	blue	0.1178962666	0.0280601067	0.1529057619	0.0413106092	578384
ZMPSTE2	blue	blue	0.1191580235	0.0558006983	0.1062643463	0.0927949640	729338
SMAP2	blue	blue	0.0911532922	0.0075948720	0.1221746263	0.0280067288	597121
PPCS	blue	blue	0.0651227679	0.0147336654	0.0917330366	0.0146567683	958564
YBX1	blue	blue	0.0550075192	-0 12410414	0.2856562311	-0 0389102	
SVBP	blue	blue	0.0667526976	-0 02526568	0.1799350238	0.0081126239	4370697
EBNA1BP	blue	blue	0.0806189808	0.0323128800	0.1341112195	0.0133223592	85436
ELOVL1	blue	blue	0.1255555953	0.0728943751	0.1101455307	0.0667097822	741975
HYI	blue	blue	0.0583370142	0.0097698380	0.1219726128	0.0123536431	698958
ATP6V0B	blue	blue	0.1716789528	0.0761321944	0.1781147236	0.0903100061	1130519
B4GALT2	blue	blue	0.0600574923	-0 01053731	0.0859238389	0.0576182033	210634
RPS8	blue	blue	-0 03565346	-0 33353509	0.4658274261	-0 15388975	
UROD	blue	blue	0.1417540788	0.0292034703	0.1952928584	0.0786948680	395173
PRDX1	blue	blue	0.1430937191	-0 05031617	0.2924077556	0.0716598934	707897
AKR1A1	blue	blue	0.1504434546	0.0977567984	0.1522002971	0.0687985430	830021
UQCRH	blue	blue	0.0859048733	-0 07509416	0.3009202587	-0 00931903	
CMPK1	blue	blue	0.0958951637	0.0301014477	0.1391777740	0.0364691218	062004
BEND5	blue	blue	0.0727540546	0.0095788519	0.1312613016	0.0313885239	351856
BTF3L4	blue	blue	0.1446169794	0.0846887130	0.1230432845	0.0737886117	588391
GPX7	blue	blue	0.1328648742	0.0333914750	0.1971658915	0.0500189181	199144
SCP2	blue	blue	0.1724564343	0.0563436535	0.1885155581	0.1513326987	18018
C1orf123	blue	blue	0.1675301563	0.0725695436	0.1953479094	0.0694221018	28593
MAGOH	blue	blue	0.1193056554	0.0454799540	0.1655082092	0.0549480421	707878
HSPB11	blue	blue	0.0921070973	0.0546820441	0.1081609587	0.0359164787	7700466

LRRC42	blue	blue	0.1267723734	0.0590030688	0.1150331697	0.063450271780548
TMEM59	blue	blue	0.2066246878	-0 06819152	0.4364389116	0.215930597152717
PLPP3	blue	blue	0.2746900157	0.1071586488	0.2067611730	0.472921442820497
JUN	blue	blue	0.1998676198	0.1224816874	0.2269773517	0.00495815272039815
ITGB3BP	blue	blue	0.1260120628	0.0439209678	0.1395487810	0.0920487808611454
PGM1	blue	blue	0.1108147257	-0 0156509	0.2061302594	0.0877481819542304
RAVER2	blue	blue	0.1340862358	0.1209266300	0.0466958525	0.102354348128041
JAK1	blue	blue	0.1900336986	0.0670414227	0.1810404684	0.171536922519787
LEPROT	blue	blue	0.2696755373	0.1179983094	0.2528889653	0.286530755170349
MIER1	blue	blue	0.1668634887	0.1004232991	0.1269710667	0.107261252201471
SERBP1	blue	blue	0.2496400828	0.0890313154	0.2793420511	0.131201189530246
GADD45A	blue	blue	0.1113142723	0.0917705574	0.1084871414	0.0205594810990104
GNG12	blue	blue	0.1350085612	0.0279652160	0.1405222409	0.0788417006284145
HHLA3	blue	blue	0.0668958997	0.0539558502	0.0362598772	0.0520436357951309
RABGGT1	blue	blue	0.1189896715	0.1121499414	0.0891374138	0.0402436792441918
NEXN	blue	blue	0.1471725484	0.0739013074	0.1200149880	0.0732601838407797
ADGRL2	brown	brown	0.2538364881	0.1882418949	0.1282344472	0.331697651331362
RPF1	blue	blue	0.0678453131	0.0026208936	0.1071399377	0.0413994181762891
GNG5	blue	blue	0.1163856534	-0 00681667	0.2651174110	0.0265598094006829
CTBS	blue	blue	0.1539678773	0.1048592030	0.1321542414	0.0860862476816969
SH3GLB1	blue	blue	0.1513249308	0.0524728586	0.1383268724	0.10212103784395
SELENOF	blue	blue	0.1531012081	-0 01591025	0.2369301813	0.115636974908232
GTF2B	blue	blue	0.0685240923	0.0126819283	0.1203491303	0.0350140736820123
KYAT3	blue	blue	0.0654843464	-0 00040576	0.1299437619	-0 00439324
GBP3	blue	blue	0.0874105956	0.0686912902	0.0811331031	0.071104991120737
GBP1	blue	blue	0.1286004598	0.0501040343	0.1185158477	0.0780892027677388
GBP2	blue	blue	0.1079228456	0.0587595267	0.1059902020	0.04434442200074
RPL5	blue	blue	0.0485039024	-0 19242673	0.4023570315	-0 08309016
TMED5	blue	blue	0.2082352295	0.1072179006	0.1905625849	0.110836693230496
FNBP1L	blue	blue	0.1490952722	0.1156825548	0.0810459620	0.0941070920357822
CNN3	blue	blue	0.1211129630	0.0031883486	0.2098964023	0.0179200308033834
SNX7	blue	blue	0.1181015221	0.0167373213	0.1938925472	0.0532196039474387
GPR88	brown	brown	0.1982216279	0.1641034564	0.0811993107	0.28860742629352
VCAM1	blue	blue	0 404467462	0.2377906693	0.2549981300	0.460026142580136
DPH5	blue	blue	0.0636932820	0.0026097407	0.0922190764	0.033374994071969
S1PR1	blue	blue	0.1783629905	0.1000827692	0.1239417131	0.112776020418435
SARS	blue	blue	0.1554011762	0.0376204285	0.2111914113	0.0884342235098256
PSMA5	blue	blue	0.1288174808	0.0113495616	0.2441425509	0.0407269678756921
GNAI3	blue	blue	0.1696557613	0.0949780121	0.1289352185	0.099511686842514
GSTM4	blue	blue	0.0491333927	0.0240080143	0.0536817804	0.00258235902993461
GSTM3	blue	blue	0.1199061658	-0 00266582	0.1956601676	0.0566265341465814
CSF1	brown	brown	0.3808467662	0.2971651230	0.1536414735	0.428325219619937
LAMTOR	blue	blue	0.1313662176	-0 0048369	0.2510537670	0.0695846393741892
DRAM2	blue	blue	0.2267867498	0.1441906151	0.2310473735	0.16046343496898
DENND2I	blue	blue	0.0226773064	0.0179467063	0.0182691238	0.000595167256887558
CHI3L2	blue	blue	0.1526966419	-0 00710952	0.2425915339	0.107343044965459
ATP5PB	blue	blue	0.1346615270	-0 01295995	0.2222511559	0.0628030716497329
RAP1A	blue	blue	0.1220629742	0.0364973147	0.1386332922	0.0653655273806152

RHOC	blue	blue	0.1395795850	-0	01329391	0.2193222404	0.0915330533982453
OLFML3	blue	blue	0.2835803102	0.1036936993	0.3424971138	0.276241387697344	
BCAS2	blue	blue	0.1212868772	0.0482453840	0.1601533940	0.0504781339316044	
ATP1A1	blue	blue	0.1662038096	0.0889743462	0.1210107335	0.0923499344637053	
WARS2	blue	blue	0.0491195294	0.0338232782	0.0630925920	0.0200929656200718	
GPR89A	blue	blue	0.1163837313	0.0565958196	0.0979013773	0.0579511827592614	
ANKRD35	blue	blue	0.0747288913	-0	00895764	0.1585235205	0.031630547489789
RBM8A	blue	blue	0.2059508152	0.1046588585	0.1882155943	0.0814613908910393	
TXNIP	brown	brown	0.3273773021	0.2180175945	0.1525118813	0.413945035342173	
ANP32E	blue	blue	0.1464540471	0.0730583967	0.1139665043	0.109517222981741	
C1orf54	blue	blue	0.1260486602	-0	00931109	0.2197973638	0.0348792849880741
MRPS21	blue	blue	0.0940505830	-0	03251669	0.2429708173	0.0335588973521807
CTSS	blue	blue	0.1284436224	0.0146989575	0.1812196804	0.13878889058273	
CTSK	blue	blue	0.1229597438	0.0185875836	0.1468141061	0.109138479960481	
CERS2	blue	blue	0.1588362915	0.0714511255	0.1397370738	0.120082472438941	
PSMD4	blue	blue	0.1534216420	0.0761920818	0.1751467923	0.0701311486342746	
SELENBP	blue	blue	0.2101879163	0.1683383382	0.1841867539	0.163252779921001	
PSMB4	blue	blue	0.1996332784	0.0475951097	0.2327468927	0.122867203021826	
MRPL9	blue	blue	0.1093751814	0.0553095757	0.1181631213	0.0512822994633444	
S100A10	blue	blue	0.1811212247	-0	04792672	0.3413315933	0.00588291271473457
S100A11	blue	blue	0.1271603408	-0	22864449	0.4730427491	0.0718677107318764
S100A6	blue	blue	0.1329419107	-0	07911331	0.3763553519	-0 02951358
S100A16	blue	blue	0.1094816199	0.0064236214	0.1291264265	0.0388586727032394	
S100A13	blue	blue	0.1052293543	-0	12631305	0.3489991163	0.00791286531364114
SNAPIN	blue	blue	0.0074390766	-0	05630585	0.1235432482	-0 04854354
ILF2	blue	blue	0.1119837333	-0	00731621	0.1981559868	0.0161285208969066
SLC39A1	blue	blue	0.1687406374	0.0178911035	0.2127542609	0.112870286720023	
JTB	blue	blue	0.1657503254	0.0643060664	0.1816440217	0.104569859749892	
RAB13	blue	blue	0.1615478823	0.0959571749	0.1535081200	0.0609821450793624	
RPS27	blue	blue	-0	05060841	-0	39449857	0.5125154012
C1orf43	blue	blue	0.1195692011	0.0250185673	0.1703388070	0.0347665670111576	
UBE2Q1	blue	blue	0.1077924266	0.0483233970	0.0911144440	0.0929801775863827	
PMVK	blue	blue	0.1067958224	0.0010528159	0.1811655373	0.0332560251615134	
CKS1B	blue	blue	0.0744499836	-0	01052197	0.1848388175	0.0501150644705443
ADAM15	blue	blue	0.1083551846	0.0399851807	0.0955780542	0.0534161048893932	
DPM3	blue	blue	0.1191393619	0.0117268076	0.2049946924	0.0885845133981951	
KRTCAP2	blue	blue	0.1444378164	-0	05635295	0.3479285839	0.0470683993310415
THBS3	blue	blue	0.0756156721	0.0512784591	0.0590614180	0.0476401472822221	
MTX1	blue	blue	0.0953832448	-0	00055816	0.1663864026	0.0370218262022026
SSR2	blue	blue	0.1469332313	-0	06579793	0.3357453996	0.0224317571612049
LAMTOR	blue	blue	0.1390816455	-0	01624456	0.2680733950	0.0580859366398478
LMNA	blue	blue	0.2157096991	0.0279682700	0.2378617521	0.0939620157064574	
SLC25A44	blue	blue	0.0679967501	-0	01506568	0.0977635014	0.055924098671913
GLMP	blue	blue	0.0981518038	0.0527898648	0.0797983118	0.0750143523883352	
CCT3	blue	blue	0.1374909447	0.0282505620	0.1683259740	0.0756200867502259	
NAXE	blue	blue	0.1315219303	0.0499663805	0.1856250501	0.0619291615266643	
MRPL24	blue	blue	0.0840203300	0.0076074769	0.1445936967	0.0146162491022972	
DUSP23	blue	blue	0.0640471946	-0	00313665	0.0966161528	0.0331293735096175

IGSF8	blue	blue	0.0935570724	0.0421425145	0.0780550745	0.0253757636956111
PEX19	blue	blue	0.0993534183	0.0097467736	0.1370014904	0.0915740337801473
PFDN2	blue	blue	0.1255731643	0.0264696530	0.1806868721	0.0287586301591396
UFC1	blue	blue	0.0948641899	0.0041341585	0.1912449703	-0 00440732
NDUFS2	blue	blue	0.1703092935	0.0997684448	0.1233204857	0.087832697037376
ATF6	blue	blue	0.1378141757	0.0650526947	0.1157012607	0.085336332820332
OLFML2B	blue	blue	0.2871187226	0.1394093161	0.2378909384	0.113133729636624
DDR2	brown	brown	0.1972867273	0.2403452518	0.0377863431	0.325781800296384
MGST3	blue	blue	0.2086002305	0.0107228142	0.3717115274	0.116116270927082
ALDH9A1	blue	blue	0.1689771174	0.0330367095	0.2140153221	0.13175039275105
TMCO1	blue	blue	0.2251040103	0.0916293687	0.2417463398	0.162354059816502
CREG1	blue	blue	0.0467857035	-0 04332205	0.1188709714	0.0572250814660608
MPZL1	brown	brown	0.1761485596	0.1244060400	0.0744429051	0.258378836296273
MPC2	blue	blue	0.0973881139	-0 01824275	0.1857103141	0.0806836172545707
DPT	blue	blue	0.0787026436	-0 00369806	0.1413517230	-0 05933665
ATP1B1	blue	blue	0.1285177519	0.0466812961	0.1250027710	0.0811298842083692
FMO3	blue	blue	0.1883822551	0.0879388551	0.1985115920	0.139059876602122
PRDX6	blue	blue	0.1981928936	0.0083306988	0.2985906215	0.111766712940192
CACYBP	blue	blue	0.0996998139	0.0409175103	0.1488251939	0.043543246367132
MRPS14	blue	blue	0.1108696384	0.0334701957	0.1435343943	0.060430778724405
KIAA0040	blue	blue	0.0699458288	-0 00795321	0.1005406726	0.0643092766776635
FAM20B	blue	blue	0.1354308478	0.0889294983	0.0751226451	0.123791720886364
GLUL	blue	blue	0.1264782326	0.0159479285	0.1566322823	0.128911818451626
RNASEL	blue	blue	0.0367289939	-0 02023141	0.0871075024	0.0436664194551473
LAMC1	blue	blue	0.2486719120	0.0932120996	0.2207732862	0.163605699912508
ARPC5	blue	blue	0.0959090548	0.0144502342	0.1383490766	-0 0027501
C1orf21	blue	blue	0.0629525183	0.0126233614	0.1063118079	0.0419171657997424
EDEM3	blue	blue	0.1907507460	0.1533329007	0.0877358369	0.115218003038443
CFH	brown	brown	0.2488967076	0.1262223965	0.1467842421	0.410695287640525
CSRP1	blue	blue	0.1654591123	0.0001409819	0.1897565204	0.0471086632217922
TIMM17A	blue	blue	0.1238394822	0.0679778155	0.1181266711	0.0821740383677838
BTG2	blue	blue	0.0971405817	0.0407190783	0.1199807067	0.00937056841540583
FMOD	blue	blue	0.1674374012	0.0011722695	0.1874728491	0.184135357563049
SNRPE	blue	blue	0.1431859035	-0 01706792	0.2670064024	0.0386829515551999
NUCKS1	blue	blue	0.2250359740	0.0510408759	0.2183012956	0.236758864860649
G0S2	blue	blue	0.0506270737	-0 0234149	0.1299512729	-0 01866685
HSD11B1	blue	blue	0.0904210473	0.0008831377	0.1285159199	0.0508767878490232
LINC0046	blue	blue	0.0727161340	0.0366765982	0.0812101024	0.0550492174822064
NENF	blue	blue	0.0940830484	-0 05862896	0.2747482713	0.0346390390229952
EPRS	blue	blue	0.1538081539	0.0663793512	0.1537944746	0.0870324193598161
IARS2	blue	blue	0.1893038904	0.0855369193	0.1872910838	0.167264221144319
TAF1A	blue	blue	0.0678579463	0.0288486962	0.0569594360	0.0625797341256092
AIDA	blue	blue	0.1055673336	-0 00255204	0.1445581003	0.0822335192965133
DEGS1	blue	blue	0.2327399039	0.1209086598	0.2091199774	0.151923341974196
CNIH4	blue	blue	0.1689812482	0.0714813465	0.2177773310	0.089331644729171
WDR26	blue	blue	0.1676024855	0.1386463090	0.0610030557	0.143483609125762
LBR	blue	blue	0.1711249988	0.1262481177	0.1182036968	0.111991824669667
SRP9	blue	blue	0.1610474704	0.0421755176	0.2444306808	0.0583846272111258

EPHX1	blue	blue	0.2767729636;0.0385334448;0.3920120931;0.289772064563829
H3F3A	blue	blue	0.0850333268;-0.18000333.0.4435640572;-0.02260929
MRPL55	blue	blue	0.1036030701;0.0112665905;0.1694966490;0.0372810070289119
GUK1	blue	blue	0.1467677804;-0.03198309.0.2920938846;0.075696039082533
RNF187	blue	blue	0.0921161271;0.0182829574;0.1093923094;0.0558399106468972
GALNT2	blue	blue	0.1676344378;0.0673118181;0.1219118868;0.110426022156471
ARV1	blue	blue	0.0819071306.0.0455814106;0.1041655526;0.0568639920803847
FAM89A	blue	blue	0.1555867409;0.1042011173;0.1422070999;0.117312110116845
EGLN1	blue	blue	0.1135415134;0.0587255731;0.1224856678;0.0829520689012203
COA6	blue	blue	0.1119619849;0.0336011833;0.1550487536;0.0548889686994172
IRF2BP2	blue	blue	0.2612361835;0.1738475282;0.1615833932;0.210389455787383
TOMM20	blue	blue	0.1857769523;0.0618784452;0.2317514901;0.0862951653410219
NID1	blue	blue	0.3329781898;0.1678586223;0.2012271203;0.335963795448842
GPR137B	blue	blue	0.0981464237.0.0384053776;0.1252313156;0.0647500240709326
ADSS	blue	blue	0.1011236488;0.0478957446;0.1042856663;0.0364938436448999
DESI2	blue	blue	0.1283358899;0.0664369456;0.1001057630;0.09350715492891
TMEM18	blue	blue	0.1674922607;0.0780463166;0.1830384590;0.0965404995005823
PXDN	blue	blue	0.2700180406;0.1243026322;0.1933941942;0.194136345400202
ADI1	blue	blue	0.0686339534;-0.04336896.0.1943537732;0.0170394589669036
RPS7	blue	blue	0.0336723106;-0.22095982.0.4243060393;-0.11198043
ID2	blue	blue	0.1316399031;0.0887241454;0.1233693206;0.0739798232908514
MBOAT2	blue	blue	0.0740935955;0.0475888426;0.0574915679;0.0251720246869296
ITGB1BP1	blue	blue	0.1465547714.0.0953062710;0.1538088010;0.0515951187856701
IAH1	blue	blue	0.1059347690;0.0495338083;0.1261834563;0.0102429825361936
YWHAQ	blue	blue	0.1071933288;0.0127601178.0.1592966269;0.0523284093725868
ODC1	blue	blue	0.1160082291.0.0332660089;0.1410394964;0.0881426356759064
PDIA6	blue	blue	0.2938398546;0.0540619195;0.3918435644;0.232880564847347
ROCK2	blue	blue	0.1911405721;0.1711911210;0.0918924479;0.096427970828262
DDX1	blue	blue	0.1196815208;0.0438897756.0.1270768878;0.114388606423225
FAM49A	blue	blue	0.1300480928;0.0822260205;0.0724258635;0.0748536219551024
RDH14	blue	blue	0.1356246317.0.0950646946;0.1357052113;0.0904704937760044
TTC32	blue	blue	0.1131325702.0.0848105746;0.1108178993;0.0525087586390835
LAPTM4A	blue	blue	0.2364095797;-0.04026988.0.4464603547;0.158378424233307
RHOB	blue	blue	0.1830340827;0.0802473190;0.1784592048;0.107424018117569
APOB	blue	blue	0.2487222545;0.1078615875;0.1961459737;0.286839132234444
SF3B6	blue	blue	0.1284147185;-0.04499256.0.2871768714;0.0562319220823186
PTRHD1	blue	blue	0.0007711367;-0.04554604.0.0725465814;-0.03982232
DTNB	blue	blue	0.0713782316;0.0541058314;0.0453284388;0.0270192431461858
RAB10	blue	blue	0.1558120415;0.0428406647;0.1504860205;0.154064517573235
HADHA	blue	blue	0.1873771232;0.1019067268;0.1692965796;0.123185959311809
OST4	blue	blue	0.1041351330;-0.15867818.0.4459532932;0.0146097802197244
EMILIN1	blue	blue	0.2963667534;0.1330257419;0.2293679301;0.168783917706958
ATRAID	blue	blue	0.1680687172;-0.01476462.0.3472651357;0.0513274663648104
MPV17	blue	blue	0.0831628258;0.0041953224;0.1154076065;0.0510324382077615
SNX17	blue	blue	0.1774727352;0.0412084378;0.2314607370;0.0948501380015455
MRPL33	blue	blue	0.1522605951;0.0425273191;0.2186180973;0.0722917501996487
BABAM2	blue	blue	0.1002115410.0.0558202496;0.1226262664;0.0483049514573814
FOSL2	blue	blue	0.1486032558;0.0874866224;0.1199600070;0.045303036670375

PPP1CB	blue	blue	0.1052688361;-0 00825598 0.1530640133;0.0538202410242836
YPEL5	blue	blue	0.1218794970;0.0700018914;0.1051948352;0.0745782978003977
FEZ2	blue	blue	0.1978315027;0.1340875309;0.1723440446;0.142329693606274
CYP1B1	blue	blue	0.1675932021;0.0123205219;0.1443593685;0.270802555664627
HNRNPLI	blue	blue	0.0827218885;0.0294430111;0.0850558226;0.0469926839068018
MORN2	blue	blue	0.0428503303;-0 03346706 0.1234597832;-0 00689662
COX7A2L	blue	blue	0.0767885914;-0 01937137 0.1857059621;0.0167621481941997
SIX2	blue	blue	0.1107786877;0.0966682154;0.0662953307;0.0868776420595527
PIGF	blue	blue	0.1468855612;0.1174141009;0.1100713726;0.0560268844981854
SOCS5	blue	blue	0.1056895889;0.0794500824;0.0484796570;0.0487037686781326
MCFD2	blue	blue	0.1856151055;0.0506660148;0.2112920968;0.154645936414831
CALM2	blue	blue	0.1615798813;-0 0358304 0.3373625901;0.0941165644811903
CHAC2	blue	blue	0.0391841810;0.0281216588;0.0437246561;0.0444428858923053
ERLEC1	blue	blue	0.2112901423;0.0955932020;0.2234892868;0.173583473150447
RTN4	blue	blue	0.2662377940;0.1073261392;0.2866611188;0.14978475233539
RPS27A	blue	blue	0.0140727844;-0 32114753 0.5260963381;-0 06655699
CFAP36	blue	blue	0.0723081528;0.0465426042;0.0882400118;0.0105297870455073
EFEMP1	blue	blue	0.1955811199;0.0043020663;0.2515078944;0.136213257105633
C2orf74	blue	blue	0.0622550719;0.0199494751;0.0963763943;0.0511663506511146
CCT4	blue	blue	0.1617370636;0.0465151785;0.1858530330;0.115778504047338
COMMD1	blue	blue	0.1313380615 0.0530575586;0.1861403813;0.0745483738432421
MDH1	blue	blue	0.1718605627;0.0549936060;0.2225214673;0.0874281849924543
RAB1A	blue	blue	0.1298367692;0.0573657525;0.1360343784;0.0967312443628308
C1D	blue	blue	0.0893373364;0.0033803905;0.1472266200;0.0112644369657599
PNO1	blue	blue	0.0880215385;0.0130572729;0.1043447899;0.0300402558442512
ANTXR1	blue	blue	0.1205676914;0.0293649046;0.1450018675;0.140575241791889
NFU1	blue	blue	0.0630032836;-0 00182689 0.1241627077;-0 00325941
ANXA4	blue	blue	0.0929164152;0.0349068813;0.1046841426;0.0309275486723693
PCBP1	blue	blue	0.2202914319;0.1003554664;0.2173143623;0.0980960333489357
PCYOX1	blue	blue	0.2357941169;0.0843448460;0.2549830814;0.196813115555187
SNRPG	blue	blue	0.0882423091;-0 06523813 0.2514896791;-0 00740456
FAM136A	blue	blue	0.0661481130;0.0602183427;0.0594638876;0.0285487911348922
MCEE	blue	blue	0.1044678686;0.0836926707;0.0843501529;0.0325739321510209
PRADC1	blue	blue	0.0523097468 -0 00394629 0.1120792590;0.015909548571179
CCT7	blue	blue	0.1019257384;-0 0111525 0.2059856847;0.0473191113735719
TPRKB	blue	blue	0.0806859165;-0 00328355 0.1570974165;0.0247415709674343
DGUOK	blue	blue	0.1029111323;0.0161866043;0.1609654608;0.0368568161406145
BOLA3	blue	blue	0.1116768130;0.0082538810;0.1688453877;0.0609277190507234
WDR54	blue	blue	0.0926234478;0.0598538032;0.0931275919;0.035311336491763
AUP1	blue	blue	0.1588777962;0.0957442498;0.1218304659;0.100944977227524
HTRA2	blue	blue	0.1233935170;0.0728904027;0.1284710020;0.0598088980610973
POLE4	blue	blue	0.1150083992;-0 04866804 0.2944000421;0.0429392605056467
MRPL19	blue	blue	0.1075883752;0.0664604203;0.1205014914;0.0776429773789478
SUCLG1	blue	blue	0.1537007878;0.0352909021;0.2172354697;0.0919965205430746
TRABD2A	blue	blue	0.1784102633;0.1132418770;0.1197164621;-0 0022531
TMSB10	blue	blue	-0 10853055 -0 45887085 0.4285273814;-0 22450416
VAMP5	blue	blue	0.1457113839;-0 06333149 0.3580991840;0.02923545332085
RNF181	blue	blue	0.1013201142;0.0025915823;0.2187827654;0.0101788311896336

CHMP3	blue	blue	0.0486079979(-0.01222645 0.1290690963)(-0.01351786
PLGLB1	blue	blue	0.1242490987(0.0997747117(0.0579591049(0.0664469194670482
RPIA	blue	blue	0.0632824089(-0.00594093 0.1005751565(0.0349829132835805
COX5B	blue	blue	0.1140070463(-0.08365205 0.3508601707(0.0268868606502096
UNC50	blue	blue	0.1266411205(0.0455880797(0.1632726133(0.0790309884208127
TXNDC9	blue	blue	0.1225149915(0.0567407175(0.1361808469(0.0952125053092721
PDCL3	blue	blue	0.0589732420(-0.00227577 0.0905602903(0.00322269234859892
RPL31	blue	blue	-0.01933584 -0.25685375 0.2811459975(-0.05668382
IL1R1	blue	blue	0.2096310690(0.0827821056(0.1760420829(0.215378432738298
FHL2	blue	blue	0.1433301356(0.0486614489(0.1510955421(0.0499296398206398
C2orf40	blue	blue	0.0999624263(-0.01037879 0.1906554315(0.0935887363810812
UXS1	blue	blue	0.1233463377(0.0470141379(0.1322956180(0.0717406465565874
SH3RF3	brown	brown	0.1050420990(0.0666713182(0.0296425772(0.110969572839806
SEPT10	blue	blue	0.1166833349(0.0505714842(0.1102425102(0.0748730659844539
SMIM37	blue	blue	0.1118277261(-0.03173537 0.2321630432(0.0626474663121164
ZC3H8	blue	blue	0.1079253786(0.0969232917(0.0803722455(0.0543014154006605
CHCHD5	blue	blue	0.0175027414(-0.08778874 0.1644099327(-0.01896391
DDX18	blue	blue	0.1855037179(0.1351402785(0.1461297517(0.100052175803013
INSIG2	blue	blue	0.2213523418(0.1569072671(0.1198276106(0.205331078809436
C2orf76	blue	blue	0.0766770391(0.0231090959(0.1144041918(0.0361137256266468
DBI	blue	blue	0.0559395825(-0.13063604 0.3303959700(-0.05697625
TMEM37	brown	brown	0.1560644634(0.1076048241(0.1023208645(0.220467138544309
TMEM177	blue	blue	0.0534969191(0.0467646073(0.0499924498(0.0100717317449407
NIFK	blue	blue	0.1346008537(0.0845432206(0.1302694374(0.0678950803605676
TSN	blue	blue	0.1517859730(0.0961548724(0.1121060432(0.115907076162886
GYPC	blue	blue	0.1152379717(-0.01257935 0.2160863023(0.0601665593532111
SFT2D3	blue	blue	0.0847528894(0.0414213123(0.0692293722(0.0466891818567193
POLR2D	blue	blue	0.0529330691(0.0513750463(0.0492614185(0.0111543408127808
AC012306	blue	blue	0.0869154660(0.0793793164(0.0610712616(0.0355640953175774
HS6ST1	blue	blue	0.1938533652(0.1224424331(0.1227022151(0.150060753478851
MZT2B	blue	blue	0.1214489582(-0.08237188 0.3378680858(0.0304004203373989
CCDC115	blue	blue	0.1338845719(0.0175104460(0.1982235237(0.0594629149959414
FAM168B	blue	blue	0.1249068172(0.0897201974(0.0965750567(0.096131418253176
UBXN4	blue	blue	0.1964657789(0.0899864643(0.2201148136(0.117534338117565
MMADHC	blue	blue	0.0987241513(0.0155066872(0.1549821657(0.0615476489083098
RBM43	blue	blue	0.1669745395(0.1304868217(0.1253158776(0.152770149521429
TNFAIP6	blue	blue	0.3033993182(0.1763219737(0.2727194898(0.272297757631578
ACVR1	blue	blue	0.1693955134(0.0864117960(0.1275334539(0.136109319232843
PSMD14	blue	blue	0.1118797033(0.0425656644(0.1464297574(0.0283061668082237
SSB	blue	blue	0.2118934298(0.0148090572(0.3142519973(0.109988552599845
CYBRD1	blue	blue	0.1921860555(0.0461197634(0.1547692068(0.305225935014407
OLA1	blue	blue	0.1309309430(0.0161679296(0.2072859668(0.0651495675105249
CIR1	blue	blue	0.1713181623(0.0844308368(0.2015325489(0.0782495432820417
SCRN3	blue	blue	0.0748756359(0.0407197840(0.0791667186(0.0313238133042849
ATP5MC3	blue	blue	0.1992035066(-0.01056812 0.3739536280(0.12057970008618
FKBP7	blue	blue	0.1569498973(0.0429803743(0.1935709748(0.0896802618850595
UBE2E3	blue	blue	0.1152460041(0.0214316566(0.1419354656(0.0517040956158925
FRZB	blue	blue	0.0497312853(-0.09569922 0.1566970687(0.196437610950205

LINC0147	blue	blue	0.0840749902	0.0874861101	0.0233420436	0.0475429344	26134
ZC3H15	blue	blue	0.1560413410	0.0865807584	0.1703594403	0.0716283387	1458
COL3A1	blue	blue	0.3159761503	0.1283237980	0.2684848105	0.1552219991	18919
SLC40A1	blue	blue	0.2057633224	0.1234669602	0.1341957657	0.1689107354	4652
MYO1B	brown	brown	0.1214663660	0.0818646006	0.0608966446	0.1740301868	5038
HSPD1	blue	blue	0.1465783009	0.0615539936	0.1873045313	0.0704119204	00535
HSPE1	blue	blue	0.1615971828	-0 01608822	0.3137465633	0.0283070951	542823
MAIP1	blue	blue	0.0570475323	0.0131466226	0.0792741992	0.0517435588	80521
AOX1	blue	blue	0.0990897888	0.0315618484	0.1153658813	0.0879163707	587464
BZW1	blue	blue	0.2129372518	0.0244461239	0.2661224602	0.1149929709	72821
NDUFB3	blue	blue	0.1286631801	-0 01240225	0.2711312318	0.0749900612	316177
TMEM237	blue	blue	0.1169254471	0.0698751595	0.0767026981	0.1175861973	20872
SUMO1	blue	blue	0.0928301710	0.0021975149	0.2000898336	0.0150251850	95224
EEF1B2	blue	blue	0.0777008309	-0 11824681	0.3558835900	-0 0615859	
LANCL1	blue	blue	0.1489569079	0.1211401297	0.0817989915	0.1097860129	74544
ATIC	blue	blue	0.1220288126	0.0668915073	0.0977579185	0.0628031141	555245
FN1	blue	blue	0.3353628150	0.1082513407	0.3134985483	0.2102350846	25275
XRCC5	blue	blue	0.1693449040	0.0189053721	0.2575765848	0.0899826503	018051
RPL37A	blue	blue	-0 01304638	-0 29536933	0.4313978584	-0 09707071	
IGFBP2	blue	blue	0.2408377333	0.0509129916	0.2638058890	0.2974349404	5883
ARPC2	blue	blue	0.1778571699	0.0960868146	0.2095359411	0.0534016055	419951
PNKD	blue	blue	0.1938099178	0.1273818627	0.1723564151	0.1029181274	85547
TMBIM1	blue	blue	0.1459758595	0.0390825649	0.1843774233	0.0792971707	069399
CYP27A1	blue	blue	0.2077160417	0.1170139142	0.1616327289	0.1193934556	25068
RETREG2	blue	blue	0.1623338407	0.0817569113	0.1436217333	0.0964447665	232303
GMPPA	blue	blue	0.0894967461	0.0838012828	0.0342677184	0.0685115686	294975
ACSL3	blue	blue	0.1797258340	0.1069893898	0.1357812162	0.1263011738	66491
KCNE4	blue	blue	0.1837046449	0.1474906034	0.1269260510	0.1436921598	4577
ITM2C	blue	blue	0.1094415521	-0 06498219	0.2442470205	0.1219143260	46995
PSMD1	blue	blue	0.1473973018	0.0552270681	0.1789478049	0.0875805368	469735
NCL	blue	blue	0.1666482075	0.1098672268	0.1600031957	0.0891592234	237223
PTMA	blue	blue	0.1353996373	-0 09336635	0.3234359964	0.0337060662	2925173
EIF4E2	blue	blue	0.1504456202	0.0636302332	0.1680989157	0.0923452382	931382
COPS8	blue	blue	0.1123624560	0.0197033494	0.1445192578	0.0687911552	182392
COPS9	blue	blue	0.1186199704	-0 08824585	0.3326457025	0.0371598140	545938
GPC1	blue	blue	0.0994475783	-0 00757256	0.1253815154	-0 00026697	
PPP1R7	blue	blue	0.0690950686	-0 01925879	0.1331295464	0.0222985865	583504
HDLBP	blue	blue	0.1621617889	0.0441081504	0.1974600308	0.0668766540	771109
DTYMK	blue	blue	0.0659350873	0.0330171280	0.0931857638	0.0012768573	3846739
CHL1	blue	blue	0.3643773810	0.2310159946	0.2346430844	0.4678268854	96711
SUMF1	blue	blue	0.0867516392	0.0020621577	0.1288762911	0.0750904520	908501
THUMPD	blue	blue	0.0837357778	0.0205882947	0.1020041116	0.0244757798	959469
JAGN1	blue	blue	0.1055568619	0.0227256619	0.1522656189	0.0198377559	616618
EMC3	blue	blue	0.1658153393	0.0598533191	0.1913382980	0.0951816835	816253
BRK1	blue	blue	0.1056706127	-0 07368456	0.2870556118	0.0435268306	618353
TAMM41	blue	blue	0.0556075816	0.0633845071	0.0303084458	0.0039516897	2589208
TIMP4	blue	blue	0.1895481176	-0 03528928	0.3319691966	0.1244019452	09307
RPL32	blue	blue	-0 03204114	-0 35711475	0.4937532189	-0 14660717	

LSM3	blue	blue	0.0785175244;-0 05576329 0.2361806248;0.00531073693261827
CCDC174	blue	blue	0.1098785899;0.0601775244(0.1048310451;0.0648694217774368
DPH3	blue	blue	0.0837428561;0.0295743714(0.0725558815;0.0270877845323311
RFTN1	brown	brown	0.2291481230(0.1593104015;0.0928113062(0.349223956244617
RPL15	blue	blue	0.0130501963;-0 26073278 0.4527108520;-0 08353102
CMC1	blue	blue	0.0810916785(0.0223253707(0.1392739177;0.0170875042381766
AZI2	brown	brown	0.2108535294;0.1466193816;0.1235143546;0.240709184037406
TGFBR2	blue	blue	0.1633708877;0.0400730174(0.1361864923;0.245775383055596
CMTM8	blue	blue	0.1441716231;0.0495661571(0.2147234379;0.103429310773263
CMTM7	blue	blue	0.0343284295;-0 01415163 0.0850339120;0.00294338013797728
DYNC1LI	blue	blue	0.1367193242;0.0807447222(0.1047612675;0.112719996346683
GLB1	blue	blue	0.1739704144(0.0376188937;0.2159352711;0.135293480466457
RPSA	blue	blue	0.0730897732;-0 17125512 0.3723902046;-0 07208501
EIF1B	blue	blue	0.1212023819;0.0318016167;0.1767280515;0.064084130297793
RPL14	blue	blue	0.0108981480;-0 24580436 0.4288749900;-0 12292831
CTNNB1	blue	blue	0.1968680900(0.1310669936(0.1551109264;0.114260482239871
SS18L2	blue	blue	0.1084899413;0.0319713619;0.1431323480(0.0412843525833849
HIGD1A	blue	blue	0.0953352990;0.0023173069;0.1354087792(0.0497046602732951
KIAA1143	blue	blue	0.0959770750(0.0245398124;0.1152186952;0.10284573416982
CLEC3B	blue	blue	0.1296951691;0.0207914215(0.2091453611(0.105002818712436
TMA7	blue	blue	0.1109802907;-0 06689149 0.3114920389;0.0490828210790241
P4HTM	blue	blue	0.1280166370;0.0838521520;0.0942670795(0.0841257967726702
DALRD3	blue	blue	0.1027418230;0.0706953195;0.1177650322;0.0131154107467583
NDUFAF3	blue	blue	0.1292178622 0.0335463082(0.1995025820;0.0382302387294553
IMPDH2	blue	blue	0.1066245510;-0 00221338 0.1989113864;0.0142505613309569
LAMB2	blue	blue	0.2361035241(0.1747185071;0.1254506032;0.177953983232105
KLHDC8E	blue	blue	0.0902335859;0.0636754960(0.0812706967(0.0303112854082682
RHOA	blue	blue	0.1631969688;-0 01151903 0.2681871438(0.121263154966688
DAG1	blue	blue	0.1281560332;0.0224709141;0.1269992499;0.0853975461168719
GNAI2	blue	blue	0.1964860726(0.0548611570(0.1698807421;0.181023656690517
HYAL2	blue	blue	0.0999264474 0.0037248633;0.1382395472;0.0529115668837382
CYB561D	blue	blue	0.0744849065(0.0108896231(0.1258839813;0.0184313123433357
TMEM115	blue	blue	0.1578459643(0.0848604455;0.1320648091(0.109478278070294
C3orf18	blue	blue	0.0738058904 0.0419368683;0.0521780406(0.0742918534630707
MANF	blue	blue	0.2161382376;0.0488552389;0.2869558524(0.130505391028671
TEX264	blue	blue	0.1262363539(0.0107387227;0.2002659300;0.0806495395383145
ABHD14B	blue	blue	0.0915677357(0.0405124775;0.0857748653;0.0676566118849222
ABHD14A	blue	blue	0.0481808566;-0 03753907 0.1636004443;0.0298582648323227
RPL29	blue	blue	-0 02159644 -0 28554046 0.4486157173;-0 13711026
SPCS1	blue	blue	0.2151836036(0.0699763976(0.3343596891(0.136596470022729
SFMBT1	blue	blue	0.1120535031 0.1152527021;0.0237810211;0.0700339256579057
TKT	blue	blue	0.0766825235;-8 1678E-05 0.1281289005;0.00404659280119696
SELENOK	blue	blue	0.0841394003;-0 0362303 0.2296723128(0.0355918167404224
ARF4	blue	blue	0.1856520783;0.0224900935;0.2209435720(0.11578057115305
THOC7	blue	blue	0.0899642528;-0 02723298 0.2086034070;0.0486709315316841
PSMD6	blue	blue	0.1494581353(0.1030884745(0.1499491006;0.055417660810246
ARL6IP5	blue	blue	0.2478566396;0.0849680734(0.2844029938(0.191280823970858
EIF4E3	blue	blue	0.0773133481(0.0343607172;0.0829110291(0.018658159247952

RYBP	blue	blue	0.0706516458	0.0245455897	0.0754853621	0.0307288174460008
GBE1	blue	blue	0.1204756954	0.0677264505	0.1329070450	0.0339691651528295
VGLL3	blue	blue	0.2677719464	0.1598787904	0.1456885696	0.281762661659331
PROS1	blue	blue	0.1565519977	0.0517823824	0.1732913763	0.080755481401374
DHFR2	blue	blue	0.0842039099	0.0455498999	0.0684319580	0.0541788341001809
CMSS1	blue	blue	0.1157246859	0.0589370470	0.1228724114	0.0506019644254073
NIT2	blue	blue	0.0979823095	0.0377576684	0.1150946712	0.0156819664984465
TRMT10C	blue	blue	0.1346649481	0.0708103357	0.1328445986	0.0693991312786033
RPL24	blue	blue	0.0644033786	-0 27602809	0.5307888225	-0 04920855
IFT57	blue	blue	0.1034095593	0.0458971245	0.1409132851	0.0603043539340534
ATG3	blue	blue	0.1327154812	0.0329400263	0.1901695971	0.0733784430956101
SLC35A5	blue	blue	0.1679172396	0.1044987223	0.1153126691	0.140573202083801
CCDC80	blue	blue	0.2584121174	0.0730275823	0.2517069762	0.278828207277703
QTRT2	blue	blue	0.0461617090	0.0176219852	0.0477315485	0.00371752392652929
TIMMDC1	blue	blue	0.2243591520	0.0922694307	0.2475746888	0.136320153807752
COX17	blue	blue	0.1260502161	0.0341499343	0.1868133724	0.0621894450404342
NDUFB4	blue	blue	0.0749870183	-0 08715334	0.2570404805	-0 00455509
CCDC58	blue	blue	0.0023245554	-0 0359334	0.0514385220	-0 02928547
FAM162A	blue	blue	0.0419884206	-0 02896973	0.1288156655	-0 01171495
HACD2	blue	blue	0.0967322746	0.0902039807	0.0565500861	0.0573138445974953
UMPS	blue	blue	0.0607306124	0.0100052561	0.1042348700	-0 00090956
ITGB5	blue	blue	0.2031550159	0.0493098350	0.2091776865	0.228724446667932
ZNF148	blue	blue	0.1538311955	0.1246692374	0.0860328713	0.105953131808808
SEC61A1	blue	blue	0.2675415427	0.1192182094	0.2158753072	0.192185614716776
RAB7A	blue	blue	0.1296283200	0.0209029643	0.1506502266	0.0765210512009837
CNBP	blue	blue	0.2191843155	0.0856485491	0.2375842150	0.125501293738742
TMEM108	blue	blue	0.2759151595	0.1772653805	0.1935162972	0.22115728624056
CDV3	blue	blue	0.1093444173	0.0562636330	0.0852860455	0.053270224444441
TF	blue	blue	0.1906150844	0.0552349358	0.1796131252	0.448508954321228
SRPRB	blue	blue	0.1209160345	0.0165569088	0.1495931605	0.0675647298445521
ANAPC13	blue	blue	0.0917817865	0.0147809922	0.1323226271	0.0521791015282911
PCCB	blue	blue	0.0896769138	0.0240069498	0.1174403928	0.0234915491947533
MRPS22	blue	blue	0.1289794377	0.0720721076	0.1496302423	0.0758248311388358
COPB2	blue	blue	0.2306887128	0.1268345895	0.1989018406	0.16507372589801
RBP1	blue	blue	0.1408172843	-0 03991339	0 323328685	0.12865019152391
RNF7	blue	blue	0.1028074428	0.0064878779	0.1865160845	0.0227163325400501
ATP1B3	blue	blue	0.0777450492	-0 03845384	0.1551701818	0.0000418020335465581
CHST2	blue	blue	0.1569094422	0.0792919029	0.1440826312	0.0726934364194179
AGTR1	blue	blue	0.1167050054	0.0532075326	0.0937207041	0.0790541531922027
GYG1	blue	blue	0.0168545735	-0 04075967	0.0902930642	-0 00741436
CP	blue	blue	0.3245649694	0.1577992068	0.2481295137	0.518946958623345
TM4SF1	blue	blue	0.1482004416	0.0347769695	0.1914962131	0.0388334586941155
PFN2	blue	blue	0.1875112517	0.0849183111	0.1512486820	0.144831126330112
SERP1	blue	blue	0.0824606340	0.0059981253	0.1407432694	0.0311638845169559
SELENOT	blue	blue	0.1661025901	0.0398834034	0.1997664025	0.139442502128856
SIAH2	blue	blue	0.1224415224	0.0698811874	0.0816758796	0.0996611108776864
SSR3	blue	blue	0.1832168326	0.0263881175	0.2692674875	0.118913684249608
PTX3	blue	blue	0.2326160110	0.0678128226	0.2670201859	0.143194210236745

LXN	blue	blue	0.12202134560.05842392840.13322770630.0719195085622075
RARRES1	blue	blue	0.13203733600.04915746650.14632452410.0653015531291237
GOLIM4	blue	blue	0.19375716750.09163876010.17793774500.156969487167782
SEC62	blue	blue	0.25440302770.06153055800.34565110010.195694980521898
CLDN11	blue	blue	0.09344615410.01592247400.11697205730.0797600236803231
RPL22L1	blue	blue	0.0758625499 -0 03704685 0.20656633580.00057587
TNIK	brown	brown	0.16283891070.14830255490.05136016710.178587784382209
TNFSF10	blue	blue	0.24437608360.12801910570.23115979100.149539458665473
ACTL6A	blue	blue	0.06520127200.00887764940.09163613860.00636377
MRPL47	blue	blue	0.11585294540.04230524570.15646995020.0308934988539844
NDUFB5	blue	blue	0.07006052010.07020926 0.23432844980.0232295570402581
DNAJC19	blue	blue	0.11390260670.05182808790.16108613490.0196924022291585
AP2M1	blue	blue	0.21586415760.09414549870.21855577570.132515812889869
PSMD2	blue	blue	0.14981576790.01459838340.23780365030.0583507926814691
POLR2H	blue	blue	0.11707517570.09289656470.07447291310.0232235968234065
DNAJB11	blue	blue	0.10345012060.02223348700.15004983850.0511866926191962
RTP4	blue	blue	0.05626647710.02999931610.06718691170.0473458091879644
P3H2	blue	blue	0.17698184290.13343633030.11810142730.13468951204934
CPN2	blue	blue	0.10020642740.02921784240.10723039600.12324481616887
APOD	blue	blue	0.07490393980.02293929 0.11077813510.158295292448083
NCBP2-A	blue	blue	0.10438447400.07112962910.14245395280.0478662884920118
RPL35A	blue	blue	-0 00052581 -0 29456111 0.50125622560.13280769
ATP5ME	blue	blue	0.09181779900.0869313 0.28122556130.0186451750873333
FGFRL1	blue	blue	0.11315064540.06277456430.07632525450.091640447253572
RNF212	blue	blue	0.06248284150.07691696990.03546774040.0273107552639022
C4orf48	blue	blue	0.14338581240.00034383460.19576520630.126862117193034
MFSD10	blue	blue	0.14576650300.07510548360.15679295390.0772743991221289
LRPAP1	blue	blue	0.15984271570.02438198620.25582159340.0766014804847692
TMEM128	blue	blue	0.09439784330.04089189780.10864334760.0681966431742048
MRFAP1	blue	blue	0.14933925780.00030314080.25997562160.0673364795623161
BLOC1S4	blue	blue	0.14741007030.08044574090.15624107280.0467751325029286
GRPEL1	blue	blue	0.08512957670.02867053690.12065008530.0125641807702334
WDR1	blue	blue	0.16670233010.03516075070.16057460150.0593446646359054
QDPR	blue	blue	0.05761822180.02992055 0.13372771870.0287836391323292
LAP3	blue	blue	0.17888621260.02892144880.23029027500.0740343023013135
PACRGL	blue	blue	0.09345325850.07246085800.07261089460.0539537063325114
SOD3	blue	blue	0.01040473540.05313095 0.12719646990.03823937
CCDC149	blue	blue	0.10188726360.07114989220.06172882340.0710461052295911
SMIM20	blue	blue	0.11663728140.02042029500.16644955200.0351940389139062
FAM114A	blue	blue	0.17413887650.06346420520.17115676930.143981794691932
RPL9	blue	blue	-0 0303002 -0 35520519 0.41791983540.08200214
UGDH	blue	blue	0.06885834980.01609147 0.09627394800.0763220130005033
LIMCH1	brown	brown	0.11445132180.10959373800.02133689650.147191744461159
COMMD8	blue	blue	0.09599469540.01684071 0.15879520750.0347268285671114
OCIAD1	blue	blue	0.18729992610.05582602350.23723452670.157150994523735
SGCB	blue	blue	0.21735362160.06979601370.26104772900.156657041650122
CHIC2	blue	blue	0.10365764490.03272472140.14046583430.0267218897497444
SRD5A3	blue	blue	0.09458642410.00283389380.15254417160.04062819217296

TMEM165	blue	blue	0.2271075397	0.1805086074	0.1421076461	0.1063397933	1207
SRP72	blue	blue	0.1458549017	0.0534390837	0.1441487762	0.0838588092	195058
NOA1	blue	blue	0.1022277797	0.0383395049	0.1141814493	0.0407590237	222826
IGFBP7	blue	blue	0.1866614036	-0 07157377	0.4057783942	0.1331784696	15364
PARM1	blue	blue	0.0189727151	-0 0407537	0.0674842071	-0 02347655	
SDAD1	blue	blue	0.1037183711	0.0409025617	0.1066428034	0.0387392634	234037
NUP54	blue	blue	0.1493921980	0.1340361972	0.0771535118	0.0994946102	383073
SCARB2	blue	blue	0.2667513923	0.1801907928	0.1841740136	0.2161845193	10725
SEPT11	blue	blue	0.2579541632	0.1706432642	0.1893220429	0.2336794381	142696
CCNI	blue	blue	0.2103938927	0.0137906163	0.3132256809	0.0942173653	622199
CCNG2	blue	blue	0.1787634243	0.0902830007	0.1423812045	0.1582008063	63505
ANTXR2	blue	blue	0.2180336298	0.1484233949	0.1713530043	0.1543615545	588253
ENOPH1	blue	blue	0.0927205073	0.0607025884	0.0701397860	0.0395673049	954945
COPS4	blue	blue	0.0893675257	-0 01158253	0.1517434437	0.0447839935	5638353
COQ2	blue	blue	0.1147544585	0.0535413330	0.1187211974	0.0529182178	635325
MRPS18C	blue	blue	0.1210056472	0.0545044821	0.1753664783	0.0323407191	1388647
SPARCL1	blue	blue	0.2062885875	0.0938466948	0.1751443384	0.4134238791	198861
PYURF	blue	blue	0.1242086019	-0 0104833	0.2132718112	0.0827059094	638677
H2AFZ	blue	blue	0.1224461067	0.0061343614	0.2533833699	-0 00233477	
EMCN	blue	blue	0.1071127078	0.0712047021	0.0562347036	0.0985539861	1344913
CISD2	blue	blue	0.0654124349	0.0031404818	0.1224563415	-0 01205366	
BDH2	blue	blue	0.1698118702	0.1163736462	0.1339984898	0.1577470110	79695
PPA2	blue	blue	0.0949463722	0.0448184177	0.0903690550	0.0365958504	268654
AIMP1	blue	blue	0.1488399708	0.0816365954	0.1660981110	0.0588180738	226228
RPL34	blue	blue	-0 02744345	-0 35856899	0.4890945675	-0 10953922	
OSTC	blue	blue	0.2170073212	0.0006332357	0.3619003119	0.1293156334	69621
GAR1	blue	blue	0.1154481797	0.0630993261	0.1013931619	0.0425395704	876353
ENPEP	brown	brown	0.2421617393	0.1505003012	0.1195640035	0.3981267588	90762
FAM241A	brown	brown	0.1538657098	0.1343404187	0.0677147743	0.1951110920	09134
SNHG8	blue	blue	0.0555969582	-0 00184455	0.1136116438	0.0249960567	424046
C4orf3	blue	blue	0.0890854971	-0 05166405	0.2643990386	0.0025937365	873407
PDE5A	blue	blue	0.1299967427	0.0790432353	0.0818573696	0.0359239033	070935
ANXA5	blue	blue	0.1282017453	-0 03950606	0.2265112913	0.0615104416	276106
PGRMC2	blue	blue	0.1771968969	0.0625626506	0.1580839258	0.1460510420	50126
PCDH18	blue	blue	0.3216591872	0.2241572539	0.1705698146	0.2891403719	5995
NDUFC1	blue	blue	0.1325044201	0.0194046544	0.2142484307	0.0698262194	576765
MGST2	blue	blue	0.0815073388	-0 01245813	0.1547780891	0.0451339313	512335
USP38	blue	blue	0.0835787639	0.0415979834	0.0443739200	0.0572688585	530705
LSM6	blue	blue	0.1197084046	0.0557652073	0.1379825419	0.0318760401	919466
RPS3A	blue	blue	-0 05333502	-0 37380754	0.4839968556	-0 1417141	
GUCY1B1	blue	blue	0.1040641115	0.0718900815	0.0552251500	0.0011219025	8926393
TDO2	blue	blue	0.1773892114	0.1004012802	0.1412839689	0.0987498920	051245
CTSO	blue	blue	0.1928722291	0.0481081089	0.1967567164	0.2230339395	49127
CLCN3	blue	blue	0.1492145337	0.0911606959	0.1075622317	0.1071531588	27216
HPF1	blue	blue	0.0543607733	-0 03104616	0.1191764464	-0 02149342	
FBXO8	blue	blue	0.0784908365	0.0132677513	0.0902005078	0.0191209389	37691
SPCS3	blue	blue	0.2148026929	0.1323081916	0.1467666461	0.1841801100	16366
VEGFC	brown	brown	0.2212134375	0.1598658958	0.1322761591	0.3355925234	87341

DCTD	blue	blue	0.1296265277	0.0362226150	0.1397573256	0.110189887027145
CDKN2AI	blue	blue	0.1177851005	0.0952208203	0.0860393464	0.0425645597670176
IRF2	blue	blue	0.1881881949	0.1000318628	0.1812432981	0.0945993350201015
FRG1	blue	blue	0.1154024843	0.0620223021	0.1433912004	0.0248179019585982
CCDC127	blue	blue	0.0764694905	0.0251394914	0.0906622466	0.0543299934517897
PDCD6	blue	blue	0.1846592430	0.1167870857	0.1745605793	0.126446850574283
CLPTM1L	blue	blue	0.1465654115	0.0651398505	0.1240456635	0.116753897996568
MRPL36	blue	blue	0.1258933700	0.0054108421	0.2108361882	0.0516444821504706
NDUFS6	blue	blue	0.1556948184	-0 02207583	0.3021346776	0.0513814452408189
C5orf38	blue	blue	0.0887010383	0.0522621654	0.1068506517	0.0671745215327077
MTRR	blue	blue	0.1101100631	0.0753408453	0.0514174163	0.0548704540325269
CCT5	blue	blue	0.1041556433	-0 0256114	0.1784301283	0.0455374016017155
CMBL	blue	blue	0.1117473037	0.0535987698	0.1108823013	0.0910953667423987
DAP	blue	blue	0.0563701559	-0 02413679	0.1197860570	0.000976372383563981
ZNF622	blue	blue	0.0833104711	0.0192636855	0.1223900744	0.0521881783069177
RETREG1	blue	blue	0.1446808922	0.0849034334	0.1478377357	0.131279414568356
BASP1	blue	blue	0.0953094262	0.0158477281	0.1120838188	-0 00295356
SUB1	blue	blue	0.1712884162	-0 01988117	0.3481074891	0.0738561932253208
TARS	blue	blue	0.1329455236	0.0446410173	0.1302996391	0.0859978790658457
BRIX1	blue	blue	0.1103039397	0.0412932224	0.1356175260	0.0653596119550753
EGFLAM	blue	blue	0.1186169554	0.0118105507	0.1553814519	0.124393631166954
LIFR	brown	brown	0.2598403369	0.2191233092	0.0532032626	0.459835124247578
RPL37	blue	blue	-0 06062675	-0 34962797	0.4103271287	-0 11985985
C7	blue	blue	0.2611916738	0.0855979037	0.2487246618	0.273142678375965
GHR	brown	brown	0.2529451541	0.1901328100	0.1090186260	0.362564177863101
SELENOP	blue	blue	0.1020876059	-0 14480278	0.3515270873	0.181547615803942
FST	brown	brown	0.1617041773	0.1125807462	0.0959991486	0.245447842311361
NDUFS4	blue	blue	0.1126237840	0.0117526392	0.2202352164	0.0479453859937163
SNX18	blue	blue	0.1191610133	0.0384511417	0.1085728246	0.106255062495761
ESM1	blue	blue	0.2465594026	0.0980002052	0.2509901646	0.322657671851453
GZMK	blue	blue	0.0674025960	0.0017300095	0.1405159296	0.115083122428967
GPX8	blue	blue	0.2064888080	0.1110143696	0.1723878165	0.173110931525071
PLPP1	blue	blue	0.1827203082	0.0618530960	0.1969520356	0.121283690252604
IL6ST	brown	brown	0.2699286741	0.1518454550	0.1262193177	0.394459611459671
NDUFAF2	blue	blue	0.0550234395	0.0041249723	0.1285145565	-0 00706571
MRPS36	blue	blue	0.0606464622	-0 07141753	0.1799286951	0.0178835711248465
AK6	blue	blue	0.1171786144	0.0208681849	0.1693228740	0.0524709813224806
BTF3	blue	blue	-0 02251428	-0 25014044	0.3776611748	-0 13058412
HEXB	blue	blue	0.1664269372	0.0363850746	0.1902175803	0.150668966049391
NSA2	blue	blue	0.0427047563	-0 05250134	0.1649686382	-0 02295528
HMGCR	blue	blue	0.0882562814	0.0337443925	0.0872669781	0.0614185241204136
AGGF1	blue	blue	0.0524076930	0.0430288976	0.0245938276	0.0824001332647211
TBCA	blue	blue	0.0936708160	-0 04030447	0.2583633259	0.0177474902279954
RPS23	blue	blue	-0 01634901	-0 34704145	0.5042531026	-0 13151176
TMEM167	blue	blue	0.1073966465	0.0239505930	0.1555436578	0.0364481207804458
COX7C	blue	blue	0.0978467979	-0 11360652	0.3791887921	-0 02160623
ARSK	blue	blue	0.0561967635	0.0407010718	0.0404071746	0.0550644306554964
GLRX	blue	blue	0.1325893207	0.0377661312	0.1821605683	0.0635957993707326

CAST	blue	blue	0.1789648185;0.1218028155;0.1411214154;0.0726812067098027
RIOK2	blue	blue	0.0736612187;0.0403850370;0.0901901555;0.0239380441278065
FAM174A	blue	blue	0.1156365464;0.0555492986;0.1290678267;0.0610545857383498
PAM	blue	blue	0.2011768639;0.0978552313;0.1340663796;0.193163447288168
EPB41L4A	blue	blue	0.0799380004;0.0356975271;0.1195741709;0.0205960918188269
REEP5	blue	blue	0.2363724209;0.0884626024;0.2556462927;0.145984897105856
TMED7	blue	blue	0.1266652564;0.0535355763;0.1449926498;0.109208055593028
CDO1	blue	blue	0.1369506156;0.0384734817;0.1832658392;0.0954340674956001
COMMD1	blue	blue	0.0762393113;0.0377264398;0.1088121045;0.0211503705831079
LOX	blue	blue	0.1321693301;0.0405620391;0.1328137824;0.111043383829396
SNX2	blue	blue	0.0806186858;0.0236963938;0.1329780910;0.0198734056192732
PPIC	blue	blue	0.1915115515; -0 00707262 0.3000399065;0.161842595742947
3-3月	blue	blue	0.1029409900;0.0557489544;0.1015567152;0.0526980102433245
HINT1	blue	blue	0.1425072480; -0 07198192 0.3926709769;0.00860009982073089
P4HA2	blue	blue	0.1303661125;0.0674167424;0.1075577373;0.0488325058018401
IRF1	blue	blue	0.2398475412;0.1870328846;0.1417578426;0.119091260790759
UQCRQ	blue	blue	0.1296119756; -0 00614777 0.2278371414;0.0254965606442993
HSPA4	blue	blue	0.1452805815;0.0615209424;0.1464627701;0.123000042762281
C5orf15	blue	blue	0.2618254324;0.1277281599;0.2219845356;0.183821354929738
VDAC1	blue	blue	0.1100139442; -0 01818899 0.1803884658;0.029254033960913
SKP1	blue	blue	0.1242359272; -0 02261092 0.2638420302;0.0294193098538586
CAMLG	blue	blue	0.1216531314;0.0222644371;0.1764532823;0.0533951476087916
TXNDC15	blue	blue	0.1570428817;0.0649877712;0.1679807083;0.1207535985117
TGFB1	blue	blue	0.1853356015;0.0601722332;0.1697675456;0.0678376058333198
HNRNPAC	blue	blue	0.2149837618;0.1259111598;0.1617599567;0.151679372179773
EGR1	blue	blue	0.1794577942;0.1197717049;0.1896034308;0.0428330945004078
CTNNA1	blue	blue	0.1839079311;0.0532386572;0.1869804845;0.112033585562738
SIL1	blue	blue	0.1772656962;0.0565470446;0.2112682526;0.109088140354445
PAIP2	blue	blue	0.1154345060;0.0790885497;0.1223202174;0.0759030272892627
DNAJC18	blue	blue	0.0740640020;0.0456379351;0.0646715477;0.0456831914564792
UBE2D2	blue	blue	0.0986392642;0.0406438410;0.1379884196;0.0136823198386156
CYSTM1	blue	blue	0.0811290279; -0 01499841 0.1822931019; -0 02417064
PFDN1	blue	blue	0.1286627644;0.1132393534;0.0981411206;0.0754474258837794
SRA1	blue	blue	0.1079149000;0.0206898750;0.1471544768;0.0245597372859608
NDUFA2	blue	blue	0.0730087142; -0 09963912 0.2282482054;0.0277320663457112
IK	blue	blue	0.1508017072;0.0929609520;0.1566581816;0.0821939839503059
RNF14	blue	blue	0.0771923192;0.0326766351;0.0921784261;0.0508079739734823
NDFIP1	blue	blue	0.2152404608;0.1110914069;0.2022216806;0.164884797937731
DPYSL3	blue	blue	0.1166361839;0.0597475500;0.0970548276;0.0780753388639208
SLC26A2	blue	blue	0.1366777921;0.0938767163;0.0817509549;0.0913710599005622
CD74	blue	blue	0.0342970656; -0 04516682 0.0732479827;0.0841222232631089
RPS14	blue	blue	0.0076155742; -0 29715584 0.4712727115; -0 09689378
NDST1	blue	blue	0.1208733250;0.0725281968;0.1011271335;0.0679459355162006
SMIM3	blue	blue	0.1180744556;0.0587187054;0.1211901549;0.0537641546976008
GPX3	blue	blue	0.0749959877; -0 01655573 0.0894482003;0.141967998788834
ANXA6	blue	blue	0.2364221731;0.0775171387;0.2450754598;0.145149881259368
CCDC69	blue	blue	0.0627228933; -0 0085841 0.0953510395;0.0514642345080527
GM2A	blue	blue	0.1346599589;0.0608127666;0.1221428819;0.117064510106077

SPARC	blue	blue	0.2901294542;0.0226193505;0.3505246710(0.169446829256752
ATOX1	blue	blue	0.1844124211;-0.0004285.0.3289619636;0.0981060851439162
CNOT8	blue	blue	0.1206265837;0.1126057877;0.0445393934;0.045518235228648
MRPL22	blue	blue	0.1110929417;0.0036741693;0.2051913946;0.0281409488227304
TTC1	blue	blue	0.0548840721;0.0162980143;0.0953935597;-0.01048755
SLU7	blue	blue	0.0927025688;0.0400009060;0.1222868685(0.0479166598201295
CCNG1	blue	blue	0.0926506027;0.0112480594;0.1220734144;0.0251851823260123
NUDCD2	blue	blue	0.0889395780;0.0269634103;0.1236565733(0.0168080336540712
MAT2B	blue	blue	0.1515051294;0.0819480759;0.0933705523(0.129935712615644
TENM2	brown	brown	0.1807016815;0.1010216358;0.1033849752;0.269290706816888
NPM1	blue	blue	0.1044818895;-0.09817198.0.3242389315;-0.02104907
DUSP1	blue	blue	0.1521791733;0.0801224950;0.1872132793;-0.01411129
RPL26L1	blue	blue	0.1058525697(0.0096524210;0.1578656792;0.0260838023724965
ATP6V0E	blue	blue	0.2164038307;0.0239619186;0.3510307731(0.114366740630859
HIGD2A	blue	blue	0.0963129373;-0.02324758.0.2106645520;0.0295060335754652
CLTB	blue	blue	0.1013962751;-0.01258412.0.1776624925;0.0594278263591163
PRELID1	blue	blue	0.1485767886;-0.07667866.0.3641019734(0.0369341973913876
LMAN2	blue	blue	0.2069333860;0.0373544262;0.3063220577;0.101908532935591
TMED9	blue	blue	0.2047735939;0.0963605321;0.1926741401;0.130803735355348
B4GALT7	blue	blue	0.0748195592(0.0199204788;0.1056676731(0.0789192861477454
NHP2	blue	blue	0.0813640688;-0.02715779.0.2097250729;0.00122879719725341
CANX	blue	blue	0.2419309415;0.0845207291(0.2289696806;0.258337918825752
LTC4S	blue	blue	0.0554744033;0.0217526060;0.0587181795;0.0449197426583057
SQSTM1	blue	blue	0.2446377280.0.1177720450;0.2120909275;0.131072785501533
MGAT1	blue	blue	0.1957476062;0.0772509071;0.1901079641;0.163692638347063
RACK1	blue	blue	0.0236394863;-0.20656072.0.3620703424;-0.10500238
FOXC1	blue	blue	0.4118102934;0.3170878054;0.1676018654(0.421159303322896
GMDS	blue	blue	0.0985939699;0.0018398911(0.1998367157;0.120945635043806
SERPINB1	blue	blue	0.1123430950;0.0291708936(0.1589088226;0.0865762784252887
SERPINB6	blue	blue	0.2117056244.0.1740425575(0.1277230355;0.124614253525002
TUBB2A	blue	blue	0.0763115795;-0.0167956.0.1297056880;-0.06276024
ECI2	blue	blue	0.1171758698(0.0113258244;0.1907580634(0.0467193638528655
LYRM4	blue	blue	0.0501466322;-0.00760391.0.0951817830(-0.00328091
NRN1	blue	blue	0.0303374537;0.0014880768;0.0625967564(0.029908895712283
EEF1E1	blue	blue	0.0666251044;0.0453408570(0.0652764488;0.013774728112709
PAK1IP1	blue	blue	0.0598716587;-0.01734979.0.1353616418;-0.01979459
TMEM14C	blue	blue	0.1365342183(-0.03809616.0.2972909587;0.0552520912252552
TMEM14F	blue	blue	0.1445586431;0.0211756651;0.2202843788;0.0813498880441955
NOL7	blue	blue	0.1703514333.0.0595205610;0.2379481344;0.0888145659814388
MCUR1	blue	blue	0.0953171526;0.0134984075;0.1325711404(0.0376091327428254
DEK	blue	blue	0.1642811855.0.0426263908;0.2194612334;0.0694995399478723
ACOT13	blue	blue	0.0848188677;0.0008595429;0.1238964274;-0.0023308
GMNN	blue	blue	0.0702290099(0.0034434473;0.1336141155;0.024167296592258
HIST1H1C	blue	blue	0.1177743471.0.0136104456;0.2227331370;0.0598179607087315
HIST1H4C	blue	blue	0.1331504662(-0.05864464.0.3703470343;0.0314093143540305
HLA-F	blue	blue	0.2062122644;0.1149042437;0.2468764702;0.171030766998767
HLA-A	blue	blue	0.2458618832;-0.00550526.0.3753864233(0.220404417075655
ZNRD1	blue	blue	0.0643833655;0.0258112319;0.1237729397(-0.01889666

HLA-E	blue	blue	0.2605738819	0.1062317055	0.2640242139	0.263661296561737
ABCF1	blue	blue	0.1307713950	0.0519691346	0.1465928522	0.044073878525503
MRPS18B	blue	blue	0.1356989375	0.0331015328	0.2079728631	0.0435042165270154
TUBB	blue	blue	0.2456757985	0.0522685522	0.2495795636	0.161240394380443
FLOT1	blue	blue	0.1197228214	0.0594862958	0.0971299258	0.0858778446023075
CCHCR1	blue	blue	0.0936028173	0.0766763707	0.0710639967	0.0485986561339425
HLA-C	blue	blue	0.1993827266	-0 13532388	0.5724993453	0.118078268934163
HLA-B	blue	blue	0.2130062745	-0 12194725	0.4550417992	0.236044181264659
CSNK2B	blue	blue	0.1407022141	0.0423290664	0.1688058446	0.0630074341132674
DDAH2	blue	blue	0.1307586565	0.0570365071	0.1562537587	0.0565621020323108
CLIC1	blue	blue	0.1630200147	-0 09150518	0.4160243992	0.0300664462671609
VARS	blue	blue	0.0893967373	0.0521644826	0.0941914471	0.0407886665085987
LSM2	blue	blue	0.1344468049	0.0068101829	0.2124077153	0.0540051205711928
HSPA1A	blue	blue	0.1671396027	0.0521529913	0.1901817472	0.163551663935358
HSPA1B	blue	blue	0.0789455268	0.0345855011	0.0874072533	0.0494634723845619
C6orf48	blue	blue	0.0786627164	-0 01366766	0.1473373283	0.0282564489226985
NEU1	blue	blue	0.1302627535	0.0555811808	0.1572078969	0.0461611148421524
C2	blue	blue	0.1607307292	0.0523993708	0.1700918092	0.117615053200213
NELFE	blue	blue	0.1657361182	0.0576625468	0.2161005949	0.0896880499417007
HLA-DRA	blue	blue	0.0201899404	-0 08965309	0.1619161341	0.0597956521551607
HLA-DRB	blue	blue	0.0310243612	-0 04714087	0.1259176253	0.0324673273826892
PSMB8	blue	blue	0.1457399412	-0 02569764	0.3081167836	0.0475794283683634
PSMB9	blue	blue	0.1579256515	0.0752438415	0.2309205125	0.0354320499018001
TAP1	blue	blue	0.1905967307	0.1100965124	0.1481202509	0.0879502034945915
HLA-DMA	blue	blue	0.0934178569	0.0327948592	0.1312793879	0.0920476505076597
HLA-DPA	blue	blue	0.0793489950	0.0264239578	0.1473061023	0.0351390937366454
HLA-DPB	blue	blue	0.0215472586	-0 0459651	0.1221518602	-0 00717545
RPS18	blue	blue	-0 04880539	-0 3854826	0.5009157258	-0 12900895
DAXX	blue	blue	0.0737146700	0.0176743907	0.0982618283	0.0545399747303375
CUTA	blue	blue	0.1425035357	0.0009197866	0.2566495615	0.0618031228727375
UQCC2	blue	blue	0.0669377749	-0 00127395	0.1222969852	-0 0036042
HMGA1	blue	blue	0.0965050626	0.0322645450	0.1382591222	0.0281041367493671
SMIM29	blue	blue	0.0632384750	0.0087928170	0.0921056716	0.057055778553527
RPS10	blue	blue	0.0186240405	-0 28329255	0.4796287390	-0 07950775
SNRPC	blue	blue	0.1448721336	-0 002599	0.2269212621	0.0604860000443448
RPL10A	blue	blue	0.0347990443	-0 22672556	0.4538810943	-0 1352473
FKBP5	blue	blue	0.1174067150	0.0298255518	0.1319899648	0.0726739263583022
KCTD20	blue	blue	0.1131144993	0.0540402024	0.1077944871	0.0528992948393317
GLO1	blue	blue	0.1236540307	0.0337960334	0.1598553983	0.066459562324353
CCND3	blue	blue	0.0713246156	0.0299136544	0.0871796988	0.0280453416769735
MRPS10	blue	blue	0.1111929139	0.0764923426	0.0895838964	0.0341602441738189
BICRAL	blue	blue	0.0915250657	0.0581590539	0.0564772736	0.0828103957152523
CNPY3	blue	blue	0.0995401695	0.0328428451	0.1146695448	0.0466818663938564
MEA1	blue	blue	0.0123952625	-0 05308809	0.0953121884	0.00250347107596943
KLHDC3	blue	blue	0.0981497258	0.0436580199	0.0778970302	0.0807822045548269
RRP36	blue	blue	0.0926862946	0.0273104186	0.1119985574	0.0641425481490519
MRPL2	blue	blue	0.1175170136	0.0436982703	0.1466232101	0.0484453642174133
DNPH1	blue	blue	0.1320610053	0.0245982488	0.2076420328	0.050964323817456

YIPF3	blue	blue	0.2017585197	0.0635730358	0.2459559645	0.0976377938064721
MAD2L1E	blue	blue	0.0815726153	0.0320193109	0.1037092635	0.0235017748181924
MRPS18A	blue	blue	0.0572577640	-0 01109351	0.1143441677	0.068830291294429
MRPL14	blue	blue	0.1178829690	0.0329821483	0.1657641076	0.0344203526238644
HSP90AB	blue	blue	0.1994191266	-0 03109466	0.2996852161	0.106535589188471
SLC35B2	blue	blue	0.1245456067	0.0651090783	0.0905300810	0.0915152568949671
ENPP5	blue	blue	0.1128793253	0.0516089118	0.1179325259	0.0652484137836812
CENPQ	blue	blue	0.0578159049	0.0145640302	0.0689702300	0.0271019932088869
TMEM14A	blue	blue	0.1132424494	0.0596257052	0.1300998225	0.0715667821511236
ICK	blue	blue	0.1747747371	0.1183084735	0.1098914885	0.111314413116476
ELOVL5	blue	blue	0.1450138381	0.0423560746	0.1504299256	0.100656710499148
SMAP1	blue	blue	0.1055517622	0.0438428510	0.1313982487	0.0566463795819119
OGFRL1	brown	brown	0.0996213995	0.0942658561	0.0222916207	0.0892839076360168
EEF1A1	blue	blue	-0 08201847	-0 39344109	0.3635811814	-0 11439014
SLC17A5	blue	blue	0.0900300954	0.0506185225	0.0828782758	0.0563077251114852
COL12A1	blue	blue	0.1881300306	0.0935807770	0.1579187754	0.041881845811364
COX7A2	blue	blue	0.0646417682	-0 12907878	0.3334001215	0.00382307898369603
IRAK1BP1	blue	blue	0.0381602547	-0 01165968	0.0570850288	0.00309253944223261
HMGN3	blue	blue	0.1434689820	0.0643161742	0.1886174597	0.0287298692554979
LCA5	blue	blue	0.1101967228	0.0954014987	0.0676737072	0.0532635054688691
NT5E	blue	blue	0.1075961020	0.0340077054	0.0735215796	0.103861832146305
RARS2	blue	blue	0.1340376706	0.0983324505	0.0908142155	0.072720798605293
AKIRIN2	blue	blue	0.0879674106	0.0372907244	0.1178687540	0.0361220125877698
PNRC1	blue	blue	0.2694129239	0.1663605235	0.2265980036	0.203340832616781
MANEA	blue	blue	0.1329346784	0.0782880584	0.1261088853	0.0577521420276285
SEC63	blue	blue	0.2465486105	0.1431936644	0.1744212783	0.177974154004348
SNX3	blue	blue	0.1205806657	-0 03158901	0.2790724214	0.0454020979843119
CD164	blue	blue	0.25444401746	0.1243013873	0.2294412893	0.223707533724005
GTF3C6	blue	blue	0.0965267429	-0 02713781	0.2422226014	0.00429322589754908
RPF2	blue	blue	0.0797948049	0.0232055709	0.0953073201	0.0317499502024913
WISP3	blue	blue	0.0839152865	-0 00683573	0.1515135834	-0 00552462
LAMA4	blue	blue	0.2935461344	0.1913721806	0.2063473585	0.205329440651633
MARCKS	blue	blue	0.3205181277	0.0926710438	0.2612619473	0.308672687244777
HDAC2	blue	blue	0.2014891452	0.1089389884	0.1528123648	0.118024357561878
TSPYL1	blue	blue	0.1811184671	0.0906691108	0.1569746219	0.139034178048402
RWDD1	blue	blue	0.0812539016	-0 05682883	0.2500517209	0.0102110413667196
GOPC	blue	blue	0.1949558466	0.1305705295	0.1743820529	0.0947791370606031
GJA1	blue	blue	0.3488940765	0.1763144040	0.2903087335	0.255622008528909
HSF2	blue	blue	0.0592426934	0.0466419610	0.0396243341	-0 00178994
SERINC1	blue	blue	0.1973183120	0.0932204705	0.1635390475	0.210869042422597
HDDC2	blue	blue	0.0721171346	0.0264601661	0.1369343372	0.0290181686533783
HINT3	blue	blue	0.0665140617	-0 00833082	0.0733256823	0.0522854717399667
PTPRK	blue	blue	0.1130892312	0.0510121554	0.1089212428	0.10090263379105
ARHGAP1	blue	blue	0.0700807290	0.0455183211	0.0705233033	0.00992888173099514
AKAP7	blue	blue	0.0716159543	0.0615098150	0.0452165297	0.0169425370766164
CTGF	blue	blue	0.2159797294	0.1333251636	0.1537074352	0.192449468889583
RPS12	blue	blue	-0 07632339	-0 39345295	0.4898070078	-0 15647582
HEBP2	blue	blue	0.0994573442	-0 02853706	0.2026926319	0.0392929088355699

CITED2	blue	blue	0.1394297754	0.0837978282	0.1196401609	0.120268722357938
AIG1	blue	blue	0.2026373521	0.1032795208	0.1729685490	0.139891574146975
SF3B5	blue	blue	0.0919272405	-0 00210045	0.2150383668	-0 00424608
RAB32	blue	blue	0.0736124516	0.0141757967	0.1214016790	-0 00621066
GINM1	blue	blue	0.1349320808	-0 0066959	0.2079798348	0.144739842182716
PCMT1	blue	blue	0.1347811539	-0 00456032	0.2192743545	0.0672504523068281
LRP11	blue	blue	0.0857708151	0.0206841165	0.0939898796	0.0686402593463224
MTHFD1I	blue	blue	0.0625178988	-0 0100029	0.0795996690	0.00882417066001854
TMEM242	blue	blue	0.0913033467	0.0508972536	0.1273001146	0.0285331706924487
GTF2H5	blue	blue	0.1330089139	0.0415704913	0.1866231824	0.0367985702962148
DYNLT1	blue	blue	0.1801924722	0.0341155474	0.2535734944	0.0640239227715813
FNDC1	blue	blue	0.1286164233	0.0467991907	0.0942604407	0.0564515631265204
SOD2	blue	blue	0.1036926864	-0 00178214	0.1171294773	0.0622102074724575
ACAT2	blue	blue	0.0505143908	-0 01299404	0.1182856117	-0 00029766
TCP1	blue	blue	0.1534151427	0.0591221019	0.1634681621	0.0709176891984798
MRPL18	blue	blue	0.1717905294	0.0434455666	0.2436849543	0.0470238679880635
MPC1	blue	blue	0.0575398572	0.0201713184	0.0952334182	0.0160366444656949
C6orf120	blue	blue	0.1667113114	0.0847197901	0.1531413036	0.0945854463587934
FAM120B	brown	brown	0.1180085995	0.1268109725	0.0156341418	0.133387874776968
PSMB1	blue	blue	0.2161215705	0.0277768966	0.3463860066	0.097990726671879
PDCD2	blue	blue	0.1189749356	0.0648053580	0.1212202826	0.0351947905432225
FAM20C	blue	blue	0.1325650559	0.0323088572	0.1288454050	0.0663243235437424
C7orf50	blue	blue	0.0734676740	-0 01926377	0.1806876474	-0 00672394
ZFAND2A	blue	blue	0.0535434535	0.0255968648	0.0913596381	0.00600847918628988
MAD1L1	blue	blue	0.0587308987	0.0082504719	0.0749031634	0.0431498832985889
NUDT1	blue	blue	0.0364862476	-0 05984493	0.1436415689	-0 03350518
ACTB	blue	blue	0.1413617864	-0 15583152	0.2733109673	0.0349568520252447
AIMP2	blue	blue	0.0916348831	0.0124207296	0.1118782813	0.0590592529898133
RAC1	blue	blue	0.2101511257	0.0421387056	0.2784139564	0.0882160434560588
KDELRL2	blue	blue	0.2281889704	0.0633385237	0.2550144770	0.192825429420053
ZDHHC4	blue	blue	0.0807009757	-0 02054619	0.1575642744	0.0637085419365651
COL28A1	brown	brown	0.1863736844	0.1614227704	0.0649097283	0.316085710044408
RPA3	blue	blue	0.0917662685	-0 00351341	0.2021738512	0.0166814025374858
NDUFA4	blue	blue	0.1264743908	-0 13207513	0.4357080978	-0 01278856
TMEM106	blue	blue	0.2471582838	0.1413279437	0.1790001382	0.216511933106086
TOMM7	blue	blue	0.1049890706	-0 16300454	0.4522503918	0.024435082302252
MALSU1	blue	blue	0.0789628129	0.0149407041	0.1607704521	0.0530814752983794
CYCS	blue	blue	0.0607705735	-0 01838276	0.1487424300	-0 02941322
CBX3	blue	blue	0.1905112763	0.1340103986	0.1577492815	0.0783694386516308
HOXA7	blue	blue	0.0131394423	-0 06501884	0.1109324208	-0 00487639
HOXA11	blue	blue	0.0629511152	-0 007369	0.1220913596	0.0275175649461502
HIBADH	blue	blue	0.0802155761	0.0221375286	0.1361450398	0.0349341427211407
TAX1BP1	blue	blue	0.2053064988	0.1219378892	0.1667704573	0.133608663284989
SCRN1	blue	blue	0.0909060043	0.0471570581	0.0918542410	0.0188580803390549
FKBP14	blue	blue	0.2009992117	0.1038906937	0.1546524329	0.148340759762207
GGCT	blue	blue	0.0507995351	-0 01799482	0.1252073617	-0 04730025
LSM5	blue	blue	0.0596862175	-0 01650272	0.1451896135	0.00242883838081619
FKBP9	blue	blue	0.2418116415	0.1125472429	0.2060951243	0.204496821013972

RP9	blue	blue	0.0730619710;0.0115933934(0.1252418374(0.0520188154454573
DPY19L1	blue	blue	0.1178961206 0.0457791802(0.1148349504(0.0759984461640899
SEPT7	blue	blue	0.2530849620;0.1320599053;0.2495350642(0.146389658264658
EPDR1	blue	blue	0.1789961404;0.0564821744;0.2081856151;0.120891044794324
RALA	blue	blue	0.1182587599;0.0273474766;0.1469563780;0.0785602391859454
PSMA2	blue	blue	0.1343327567; -0 00563729 0.2534180031(0.0357761340272076
MRPL32	blue	blue	0.1577992037;0.0476013145;0.1948804382(0.0852369289804779
COA1	blue	blue	0.1405710856(0.1068211574;0.0955226318;0.0767511974038245
BLVRA	blue	blue	0.0916612764;0.0215672232;0.1298164925(0.04893432406675
AEBP1	blue	blue	0.2692342702;0.1113111323(0.2266383604;0.214610650827176
POLD2	blue	blue	0.1186826869;0.0228919641;0.1454540494;0.0713291456753392
PPIA	blue	blue	0.1212327252(-0 0408793 0.2270265151(0.0480418531459602
CCM2	blue	blue	0.0886092181;0.0498083238;0.0680183823;0.0560502519437739
TNS3	brown	brown	0.1601507049;0.1681747079(-0 01895535 0.268291162003495
UPP1	blue	blue	0.0578736912; -0 0021206 0.0802383653; -0 01389723
SEC61G	blue	blue	0.1375722745; -0 02343411 0.2970213780(0.0173707752195442
EGFR	blue	blue	0.2130876654;0.1473795792;0.1303766832;0.162496620295895
MRPS17	blue	blue	0.0960092557;0.0390647662(0.1056094567;0.0306492522066412
CHCHD2	blue	blue	0.1296464484 -0 12399989 0.4215140697;0.0514086738804559
TPST1	blue	blue	0.1527528661;0.0701803659;0.1493239520;0.116240096172872
SBDS	blue	blue	0.1857202984;0.0561843511;0.2438173434;0.0891954616695912
EIF4H	blue	blue	0.1401692441;0.0191413514;0.1700900753;0.0918830275409971
HIP1	brown	brown	0.2432312303(0.2086379390;0.0886505859;0.279620685804847
POR	blue	blue	0.1060082623 0.0326806033(0.1028870717;0.0869608097911102
MDH2	blue	blue	0.1893879380;0.0239262766;0.2704436794;0.0946976217108091
HSPB1	blue	blue	0.1381690699; -0 03477405 0.2109501141(0.0389558109623849
TMEM60	blue	blue	0.1091195775 0.0446194465;0.1406884224;0.062350414473857
CD36	blue	blue	0.1235479088(0.0351859929;0.1301553259;0.179708981784393
SRI	blue	blue	0.1204372321 -0 00326213 0.2160059494;0.0262128441754022
FZD1	blue	blue	0.3034790541;0.1780321289(0.1797487558;0.308795151077103
GNG11	blue	blue	0.0301386068(-0 04304578 0.1384792299; -0 02076654
COL1A2	blue	blue	0.4078042484;0.1749490930;0.2898255415;0.342641965737697
SLC25A13	blue	blue	0.1203629617;0.1025573163;0.0575821651(0.0829922166983845
SEM1	blue	blue	0.1226190500(-0 03372671 0.2644256977;0.0347958963875049
BRI3	blue	blue	0.1135646010(-0 03849633 0.2602108033;0.024304666569707
TMEM130	brown	brown	0.0546870083;0.0212954125(0.0214526923;0.160770743467108
ARPC1A	blue	blue	0.1095939290;0.0179146571;0.1345647442;0.0285572868177976
ARPC1B	blue	blue	0.1538022402;0.0633809078;0.1969322275;0.045144135570577
PDAP1	blue	blue	0.1205304672;0.0230343330;0.1666743290(0.0596955089940826
BUD31	blue	blue	0.1338849044(-0 0114829 0.2404750918;0.0729411568052012
ATP5MF	blue	blue	0.1506847481; -0 02905583 0.3115030360;0.0793213451593332
CNPY4	blue	blue	0.0746494258; -0 01309982 0.1176492883;0.0880732256806527
LAMTOR	blue	blue	0.1669203382;0.0512675516;0.2427547190;0.0794284462889135
PCOLCE	blue	blue	0.2918669438;0.1325774134;0.2930937305;0.243443207120378
GNB2	blue	blue	0.1585886534;0.0692800435(0.1499638943;0.113512938806339
POP7	blue	blue	0.1514986050;0.0632258489;0.1826155479;0.0842252641684555
TRIP6	blue	blue	0.2093053982;0.1173441571;0.1720220400;0.115094339125017
AP1S1	blue	blue	0.0571425747; -0 02544173 0.1386069848;0.00976306378489884

ZNHIT1	blue	blue	0.1012260418;-0 01684333 0.2424397787;0.00604569397233739
FIS1	blue	blue	0.0806706102;-0 08110712 0.2417787255;0.0308260945010658
IFT22	blue	blue	0.0861176695;0.0190924400;0.1379293187;0.0100538494549678
POLR2J	blue	blue	0.0919916337;-0 0352393 0.2341247157;-0.0389845342358989
PMPCB	blue	blue	0.1680753975;0.1037121088;0.1296534743;-0.072538826586132
SYPL1	blue	blue	0.1765273393;-0.0727462518;0.1979723903;0.107093774116805
PRKAR2B	blue	blue	0.1793469232 0.0641787242;0.2006048023;0.18738757143648
HBP1	blue	blue	0.1184839097;0.0903393038;-0.0742505932;0.0822490227851153
THAP5	blue	blue	0.0881637597;0.0334461723;-0.1049950480;0.0569576625755974
DNAJB9	blue	blue	0.1510356731;0.0460018594;-0.1709593913;0.100288638629702
LRRN3	blue	blue	0.1001862357;0.0740511525;0.0962803003;-0 01025623
CAV2	blue	blue	0.1844997879;0.0698528523;0.2004024905;0.235589724997891
CAV1	blue	blue	0.0973642444;-0 01099032 0.1490404200;0.1323435146946
CAPZA2	blue	blue	0.1574511263;0.0778239801;0.1542580597;0.109242811997579
FAM3C	blue	blue	0.1927391622;0.0910813660;0.1757824677;0.144221424475877
NDUFA5	blue	blue	0.1144106150;-0.0496846827;0.1606473343;0.0465971364252636
ARF5	blue	blue	0.1335053426;0.0092715552;0.2441436596;-0 00410165
SND1	blue	blue	0.1772771506;-0.0556586229;0.1724529420;0.121832953464969
CALU	blue	blue	0.2161960905 0.0488337973;0.2332717404;0.152466038289404
ATP6V1F	blue	blue	0.1069848107;-0 02736718 0.2268225240;0.00165349918359542
SMO	blue	blue	0.0912896795;0.0578370773;0.0873893015;0.0656861807021734
MEST	blue	blue	0 122876485 0.0399516410;0.1306820773;0.109666131250311
CHCHD3	blue	blue	0.0620309233;0.0196895032;0.1028074674;0.00619839573656404
AKR1B1	blue	blue	0.1079669828;0.0251387676;0.1616828860;0.0148554634444056
CYREN	blue	blue	0.0679419920;0.0213361340;0.1007210677;0.0117720844681813
TMEM140	blue	blue	0.1030951542;0.0154550021;-0.1357829754;0.0953787761268523
MTPN	blue	blue	0.0992788496;-0 02342215 0.1543950590;0.0639394305893514
PTN	blue	blue	0.0931232375 0.0317894310;0.1286686480;-0 04517019
ZC3HAV1	blue	blue	0.1968547916;-0.1395013341;0.0935478629;0.122573869275615
NDUFB2	blue	blue	0.1746402739;-0 08359449 0.4025685100;0.0589971706378414
MRPS33	blue	blue	0.1069319834;0.0393122061;0.1610421082;0.0472718146815532
SSBP1	blue	blue	0.1317426920 0.0163462789;0.2684828937;0.0145167173043307
ZYX	blue	blue	0.1693078708;0.0544801488;0.1678435065;0.0584725077183274
PDIA4	blue	blue	0.1709912819;0.0461722475;0.1517300365;0.187717441474447
RARRES2	blue	blue	0.1895925862 -0 04407757 0.4372948526;0.0796464976841078
TMEM176	blue	blue	0.2829712136;0.0374628616;0.4235766196;0.143817196549949
TMEM176	blue	blue	0.2562155247;0.0119646697;0.3952675606;0.139568097334373
RHEB	blue	blue	0.1640368289;0.0516487305;0.1890169889;0.081339700140613
GTPBP6	blue	blue	0.0684472351;-0.0234812277;0.0933120354;0.0338738758534785
SLC25A6	blue	blue	0.0723282801 -0 11649161 0.2748130146;-0 03088274
ASMTL	blue	blue	0.0676964374 0.0126893411;-0.0696646437;0.0305654255928554
DHRXS	blue	blue	0.0867553426;0.0290863933;0.1234377836;0.069926922437482
CD99	blue	blue	0.1806356596;-0 02784953 0.3234753825;0.0895002452710738
MSL3	brown	brown	0.0809828452;0.0606496496;0.0246708546;0.0781047919299928
TMSB4X	blue	blue	-0 2105911 -0 51347136 0.3502724657;-0 19565161
RAB9A	blue	blue	0.0813302556;0.0178466621;0.1328079382;0.0260890976093255
GPM6B	blue	blue	0.2094184219;0.0090308423;0.2736399516;0.230646909373881
PIR	blue	blue	0.0765515759 0.0217961185;0.1153482377;0.0883736299780384

RBBP7	blue	blue	0.1104417895;0.0763180756;0.1007004971;0.0218014102809949
PDHA1	blue	blue	0.1197672145;0.0752164141;0.1092350255;0.0574251819949338
SH3KBP1	blue	blue	0.0849589354;0.0242248742;0.0930329081;0.05433918900304
SMS	blue	blue	0.0606607392;0.0013640070;0.0849545399;0.00205371786896922
PRDX4	blue	blue	0.1987355236; -0 03426931 0.4195053024;0.0855341874110794
SRPX	blue	blue	0.1327730628;0.0111903651;0.1705346072;0.133810644113062
ATP6AP2	blue	blue	0.2242146135;0.0862004925;0.2408945048;0.183488732619905
NDUFB11	blue	blue	0.1781999267; -0 06373008 0.4059485623;0.0664582870915714
TIMP1	blue	blue	0.2351786528; -0 01613073 0.3892511187;0.0849820452424659
ELK1	blue	blue	0.0705460813;0.0013856055;0.0831101831;0.0659513951553081
UXT	blue	blue	0.0240966528; -0 07982237 0.2205255126; -0 04993883
EBP	blue	blue	0.1196562321;0.0477054245;0.1341501993;0.0797082441372382
SLC35A2	blue	blue	0.1083738620;0.0407459440;0.0975428331;0.050508976783989
PRAF2	blue	blue	0.1135849549;0.0292131854;0.1203554925;0.0670608684982111
WDR45	blue	blue	0.0866457244;0.0476013297;0.1077146883;0.0681031657446569
HSD17B1	blue	blue	0.0952885537; -0 02686454 0.2123332738;0.071119711085859
MAGED2	blue	blue	0.1596871180;0.0007956039;0.2776851896;0.105429377649635
FAM104B	blue	blue	0.0221143707; -0 06216162 0.0719918521;0.00139555790846866
MAGEH1	blue	blue	0.1443854980;0.0624652303;0.1369532468;0.101699682342308
NBDY	blue	blue	0.0695841743; -0 01797692 0.1644029284;0.0232033706717777
YIPF6	blue	blue	0.1093410882;0.0585446697;0.0969695299;0.122192198306291
PJA1	blue	blue	0.1167543781;0.0729616827;0.0900251377;0.0700701434713517
IGBP1	blue	blue	0.1046247106;0.0110422901;0.1901281738;0.0134932606538644
PIN4	blue	blue	0.1227844248 0.0218229849;0.1980222337;0.0456652810483568
RPS4X	blue	blue	-0 07733175 -0 39115496 0.4409684748; -0 15602557
SLC16A2	blue	blue	0.1220122419;0.0684856518;0.0831601677;0.0958168777155192
MAGT1	blue	blue	0.1976999851;0.0559504541;0.2055955541;0.170659310762695
COX7B	blue	blue	0.1210274697; -0 07943779 0.3336082016;0.0459783155485832
PGK1	blue	blue	0.1387525088;0.0064504095;0.2247547591;0.102316345909217
TAF9B	blue	blue	0.0426751369; -0 01232618 0.0589419368;0.055352154622003
SH3BGRL	blue	blue	0.0361352259; -0 06228893 0.1509084363;0.0258945619779361
APOOL	blue	blue	0.1101648456;0.0742621437;0.0725344774;0.0837719791206756
RPL36A	blue	blue	0.0333466448; -0 16941943 0.3142427121; -0 06666843
GLA	blue	blue	0.0873201331;0.0205836222;0.1264838607;0.0420467642712962
HNRNPH2	blue	blue	0.1277075369;0.0348888272;0.1488795412;0.0848131579175488
TCEAL8	blue	blue	0.1319502125;0.0140432749;0.1877013368;0.0631792346705792
TCEAL9	blue	blue	0.1330668816;0.0378644961;0.1548048272;0.0546423264527845
BEX3	blue	blue	0.2083775315;0.0488090621;0.2925249466;0.120946901454798
TCEAL3	blue	blue	0.1016724795;0.0492387881;0.1424231513;0.0531211381682123
CHRD1	brown	brown	0.2354401488;0.1276539814;0.0895904685;0.409740166054387
PLS3	blue	blue	0.1412629007;0.0481859115;0.1340230619;0.123087146500276
PGRMC1	blue	blue	0.1698479954; -0 01035207 0.2627471705;0.177478816614111
SLC25A5	blue	blue	0.1086844546; -0 01594849 0.2199112678; -0 00100593
SEPT6	blue	blue	0.0430581884;0.0142637363;0.0597651909;0.0230554536917896
RPL39	blue	blue	-0 05655467 -0 35321627 0.4079270612; -0 10119907
NDUFA1	blue	blue	0.0649802008; -0 12455563 0.3134740803; -0 0047875
LAMP2	blue	blue	0.1799079935;0.0726304955;0.1650155633;0.13565917255077
MCTS1	blue	blue	0.0916736745;0.0160001993;0.1696810307;0.0111606826949544

C1GALT1	blue	blue	0.1057901683	0.0089879744	0.1655073195	0.0705064783	742565		
UTP14A	blue	blue	0.0794986029	0.0407117678	0.0790016762	0.0463160596	072069		
RTL8A	blue	blue	0.1174649787	0.0575423701	0.1404199236	0.0485940418	189413		
MMGT1	blue	blue	0.0615285110	0.0117247448	0.1054860005	0.0584396262	675357		
FHL1	blue	blue	0.1717722403	0.0473541427	0.1703762393	0.1870948531	118036		
HTATSF1	blue	blue	0.0361493494	0.0181252955	0.0592752369	-0	00991167		
CD99L2	blue	blue	0.0700141557	-0	00073119	0.0983439286	0.0660794163	066975	
CETN2	blue	blue	0.0551136191	-0	07124987	0.1574100030	0.0424735684	253761	
BCAP31	blue	blue	0.1559929541	0.0064014810	0.1941157965	0.1517151036	20603		
SSR4	blue	blue	0.1402512423	-0	11506038	0.4080721045	0.0678891547	354501	
NAA10	blue	blue	0.0795988619	-0	0120748	0.1362171745	0.0128646588	959182	
FLNA	blue	blue	0.2975976168	0.1293701394	0.2730658534	0.1696715347	91504		
RPL10	blue	blue	-0	02706009	-0	35683542	0.5255910984	-0	13420824
ATP6AP1	blue	blue	0.1604183982	0.0898041124	0.1415803772	0.1261544993	41936		
FAM50A	blue	blue	0.1250313681	0.0722792129	0.1240618815	0.0575447526	448798		
G6PD	blue	blue	0.0990010300	0.0364309857	0.1099966043	0.0571936914	913615		
F8A1	blue	blue	0.1018531180	0.0459270694	0.1019088140	0.0643189708	476441		
FUNDC2	blue	blue	0.0950098442	0.0002087580	0.1666045250	0.0560763358	577853		
VBP1	blue	blue	0.0844172777	-0	00445685	0.1534970368	0.0410448223	274303	
FBXO25	blue	blue	0.1218832984	0.1190796961	0.0566959564	0.0627821243	97765		
ANGPT2	blue	blue	0.1076448679	0.0652630657	0.0652243204	-0	01757293		
FDFT1	blue	blue	0.1109042557	0.0569920890	0.1199631388	0.0518664291	922829		
CTSB	blue	blue	0.2286447604	0.0762168576	0.1796253381	0.2182847579	37406		
TUSC3	blue	blue	0.1042597846	-0	02952866	0.1900166806	0.0990655851	516893	
ZDHHHC2	blue	blue	0.0838708843	0.0008171623	0.1418524258	0.0513523904	428838		
PDGFRL	blue	blue	0.0890897316	0.0335927323	0.1185242610	0.0065376192	0734647		
LPL	blue	blue	0.2423800810	0.0659615144	0.2266592667	0.3212809358	39538		
PDLIM2	blue	blue	0.2127731695	0.1061115465	0.2128266437	0.1464226169	07768		
R3HCC1	blue	blue	0.1423608222	0.0534047239	0.1256501381	0.0952529890	446455		
LOXL2	blue	blue	0.1414857888	0.0201922026	0.1579046997	0.0624284869	758198		
ADAMDE	blue	blue	0.0954425414	0.0098891464	0.1069894056	0.1075956732	27094		
BNIP3L	blue	blue	0.1981066056	0.0616025505	0.2022505275	0.1841978444	11828		
CLU	blue	blue	0.1974323868	0.0304123524	0.2129366130	0.2378163181	63509		
SCARA3	blue	blue	0.1053822833	0.0037073978	0.0999736841	0.0973203047	692183		
CCDC25	blue	blue	0.0718443565	-0	00112907	0.1237311918	0.0048285743	1969633	
SARAF	blue	blue	0.1967752371	-0	01323313	0.3048005153	0.1995746172	36218	
LEPROTL	blue	blue	0.1635881537	0.0685948912	0.1677330706	0.1244072263	84781		
DCTN6	blue	blue	0.0535511078	-0	0160349	0.1107541916	-0	00737676	
RBPMS	blue	blue	0.1341862932	0.0774983747	0.1036812430	0.0499036562	046925		
UBXN8	blue	blue	0.0269849736	-0	00017083	0.0658915185	0.0089461611	0028335	
ZNF703	blue	blue	0.1899707918	0.1352592595	0.1215007769	0.1039734954	95674		
BRF2	blue	blue	0.0642165532	0.0317394147	0.0966845891	0.0127257833	803493		
ASH2L	blue	blue	0.1227613854	0.0637434269	0.0987023492	0.0784709104	289645		
LSM1	blue	blue	0.0709596080	0.0049328199	0.1376775299	-0	0026572		
TM2D2	blue	blue	0.1151164566	0.0231375257	0.1569429281	0.0650508096	158304		
SFRP1	blue	blue	0.1518851534	0.0009937633	0.2086473820	0.1618886522	63604		
VDAC3	blue	blue	0.1810274740	0.1009116662	0.1718021715	0.0854815639	86549		
SMIM19	blue	blue	0.0697737411	-0	04938525	0.2048022855	0.0103086255	110561	

RNF170	blue	blue	0.1624140468	0.1237147093	0.0984274554	0.108922851850831
PRKDC	blue	blue	0.1889699487	0.1127473085	0.1532296944	0.101511529972669
SNAI2	blue	blue	0.2392079184	0.1331686909	0.1889190671	0.171020759256886
TCEA1	blue	blue	0.1663417853	0.0496957692	0.2234903170	0.11238300234097
MRPL15	blue	blue	0.1104907924	0.0362585869	0.1620760961	0.0336269108275377
RPS20	blue	blue	0.0121159062	-0 23758711	0.3802302869	-0 04719999
IMPAD1	blue	blue	0.2108627119	0.1003922568	0.1722050690	0.219123880059991
SDCBP	blue	blue	0.1775327080	0.0474270055	0.1918546987	0.0872253951067047
RAB2A	blue	blue	0.2265692236	0.0542398410	0.3058948637	0.1262501134941
ASPH	blue	blue	0.2143603686	0.1386941132	0.1568838136	0.195903587780894
LACTB2	blue	blue	0.1105993444	0.0680395430	0.0970058032	0.105005306613288
RPL7	blue	blue	0.0096017294	-0 25769076	0.4008811543	-0 07034164
ELOC	blue	blue	0.0517776465	-0 04617449	0.1537775723	-0 00967987
TMEM70	blue	blue	0.0654245688	0.0115826150	0.1166712193	0.0171338804419765
PEX2	blue	blue	0.0784891275	0.0213001077	0.0979525418	0.0497187066055552
MRPS28	blue	blue	0.0453857630	-0 0363813	0.1438355401	0.00448942505041538
C8orf59	blue	blue	0.1193574635	0.0276325487	0.2356518018	0.0298417637769428
CPNE3	blue	blue	0.1637000285	0.0591720283	0.1642585848	0.127960180294922
DECR1	blue	blue	0.1232609084	0.0555262116	0.1832164716	0.0613911019813686
TMEM64	blue	blue	0.1679764496	0.0721886895	0.1776763267	0.173468479651026
AC103770	blue	blue	0.1058998370	0.0319017634	0.1495473329	0.0704954006840874
PIP4P2	blue	blue	0.1718075157	0.1199457333	0.1266885430	0.109960782170609
UQCRB	blue	blue	0.0923303483	-0 08441771	0.2892387382	0.0096813547081229
CPQ	blue	blue	0.1095221474	0.0065566969	0.2006254667	0.0674944843503021
MTDH	blue	blue	0.3021310500	0.1334971016	0.3086895735	0.177632676897936
LAPTM4B	blue	blue	0.1432962644	0.0343966482	0.1659835783	0.0883717576406558
RPL30	blue	blue	-0 02544494	-0 34178098	0.5145092163	-0 12244481
COX6C	blue	blue	0.1556238539	-0 07374167	0.3892430564	0.0290393227801007
POLR2K	blue	blue	0.0997185208	-0 01587644	0.1942017382	0.0570373220323027
PABPC1	blue	blue	0.1245927079	0.0120175891	0.1744695865	0.050452683411026
ATP6V1C	blue	blue	0.0701786049	0.0365704216	0.0853958935	0.0124228075657851
EIF3E	blue	blue	0.1338904962	-0 04824557	0.2908479882	0.0368804024477157
EMC2	blue	blue	0.1441493808	0.0579826209	0.1735527313	0.0670864659793675
EBAG9	blue	blue	0.0870605095	0.0109075735	0.1080311623	0.0594744487766168
EIF3H	blue	blue	0.1104638152	-0 01610955	0.2258296002	0.0242342553093773
UTP23	blue	blue	0.1164556781	0.0381057986	0.1399616618	0.0588000470204462
RAD21	blue	blue	0.1779628822	0.0862637800	0.1344652967	0.139887130310187
MED30	blue	blue	0.0684884451	0.0274551501	0.0980497464	0.0242318097953247
ENPP2	blue	blue	0.2108005411	0.0846756991	0.2359312473	0.184982809129206
COL14A1	blue	blue	0.3288183132	0.1182160801	0.3084980539	0.398424775384567
MRPL13	blue	blue	0.1428173502	0.0622069298	0.1924028504	0.0462306076617844
DERL1	blue	blue	0.1597385814	0.0771402981	0.1527100485	0.0850583372856963
RNF139	blue	blue	0.1040888244	0.0506198722	0.1031470100	0.063468496417245
NDUFB9	blue	blue	0.1417063709	-0 0105305	0.2578463485	0.0580390259721395
WASHC5	blue	blue	0.0745847306	0.0118914795	0.0929003065	0.0485271424353385
NSMCE2	blue	blue	0.0848568105	0.0553032942	0.0751944142	0.0280388951188177
TRIB1	blue	blue	0.0776017267	0.0460632700	0.0308058245	0.0608295560346202
NDRG1	blue	blue	0.1543240392	0.0473650994	0.1656190871	0.10955863330347

LY6E	blue	blue	0.1474728739;-0.057187780.3092060051;0.135750007723158
NAPRT	blue	blue	0.1057152961;0.0878048768;0.0811920895;0.0382269242922948
EEF1D	blue	blue	0.0874150452;-0.076503550.2847539633;-0.01198371
PUF60	blue	blue	0.1233837956;0.0009966554;0.1875491741;0.0494032163725718
GRINA	blue	blue	0.1846936657;0.0745649224;0.2046824730;0.11508329121164
EXOSC4	blue	blue	0.1076924091;0.0319483628;0.1412989011;0.047008790702985
GPAA1	blue	blue	0.1628674900;0.0671144788;0.1578648802;0.0866193298646591
CYC1	blue	blue	0.1835758657;0.0469076926;0.2709501083;0.0826482691568984
HSF1	blue	blue	0.10317865560.0692368580;0.0964599080;0.0269920434321456
VPS28	blue	blue	0.1643222886;0.0662417896;0.2396151808;0.0541030544562374
C8orf82	blue	blue	0.1094909945;0.0693638867;0.0933228821;0.0184644399356953
RPL8	blue	blue	0.0687489372;-0.21405150.4451632807;-0.04739642
CDC37L1	blue	blue	0.0853895039;0.0524614757;0.0630655833;0.0162122971992035
PLGRKT	blue	blue	0.0830731757;0.0004562217;0.1474046186;0.00771645016491779
DMAC1	blue	blue	0.0959056261;0.0175011716;0.1617256695;0.0526215675929077
LURAP1L	blue	blue	0.0908444553;0.0332372126;0.1025016754;0.020834589772569
RRAGA	blue	blue	0.1715684122;0.0372796737;0.2439359299;0.107750925538377
PLIN2	blue	blue	0.1368894797;0.0439392990;0.1665202586;0.0218785744419112
RPS6	blue	blue	-0.01246961-0.299150870.4058778144;-0.09294713
CDKN2A	blue	blue	0.0878479492;0.0178276910;0.1031129732;0.0566425072822952
DMRTA1	blue	blue	0.0818178684;0.0353344181;0.0913099633;0.0527316343534413
TUSC1	blue	blue	0.1312505783;0.0585286567;0.1471969618;0.0458509780448133
PLAA	blue	blue	0.0752462106;0.0255308321;0.0614709137;0.0506532439844462
NDUFB6	blue	blue	0.0620748263;-0.051666210.2062648962;-0.00292998
DNAJA1	blue	blue	0.2434478990;0.0487485307;0.2956715257;0.198814602478298
B4GALT1	blue	blue	0.1972285114;0.0935473037;0.1750275006;0.080797846941582
BAG1	blue	blue	0.1043549727;-0.013226370.1898921996;0.0181795030671835
CHMP5	blue	blue	0.1057319093;0.0067433929;0.1688585724;0.10235375780066
NUDT2	blue	blue	0.1155210590;0.0045845311;0.2163082571;0.0273548066841217
RPP25L	blue	blue	0.0803096224;0.0457519991;0.0887457749;0.0246406331819596
DCTN3	blue	blue	0.1029364635;-0.041658010.2580325362;0.060659293927715
VCP	blue	blue	0.2441533192;0.0968410947;0.2550717347;0.176706434161659
STOML2	blue	blue	0.1736253472;0.0658148761;0.2187739866;0.0929307548877739
CCDC107	blue	blue	0.1343735658;0.0082033172;0.1998885208;0.0484993247190982
TPM2	blue	blue	0.1597999652;-0.011447550.2631439178;-0.02661815
TLN1	blue	blue	0.2201505247;0.0757992746;0.2540804363;0.148769650515907
CREB3	blue	blue	0.1279245816;0.0139980041;0.1740813229;0.0704869867536769
NPR2	blue	blue	0.1252616218;0.0493849324;0.1119673965;0.101967931626251
HINT2	blue	blue	0.1369413883;0.0408779063;0.2046614793;0.0363516069508674
CLTA	blue	blue	0.1651619548;-0.020269350.3308968665;0.0363157584898088
RNF38	blue	blue	0.13266380190.0631892083;0.0994444468;0.0795647903685743
GRHPR	blue	blue	0.1526380769;0.0591673840;0.1844121030;0.072341157965446
ALDH1B1	blue	blue	0.1140846021;0.0278140539;0.1203878661;0.0609297417639596
ANXA1	blue	blue	0.2118077512;0.0526960829;0.2716074221;0.0428483557174072
NMRK1	blue	blue	0.0996662912;0.0946966039;0.0938238396;0.0204325367862868
PCSK5	blue	blue	0.2015799442;0.1504823251;0.1268255127;0.102372129520455
C9orf64	blue	blue	0.0692986781;0.0569841848;0.0490322743;0.0289104607627489
HNRNPK	blue	blue	0.2738327444;0.1893552059;0.1559013975;0.210538503163864

NTRK2	blue	blue	0.2950019981	0.1370741642	0.2321268662	0.332513303087287
GOLM1	blue	blue	0.1110515080	0.0473377753	0.1239019105	0.0732689642336167
ISCA1	blue	blue	0.157215096	0.0733811228	0.1356135099	0.124509505156513
GAS1	blue	blue	0.0747118828	-0.00158642	0.1239035339	-0.00349645
CTSL	blue	blue	0.2591108412	0.1204457576	0.2575277540	0.192238831163221
NFIL3	blue	blue	0.0606229518	0.0266738272	0.0904342849	0.0137008001576907
CARD19	blue	blue	0.1240999344	0.0777971401	0.1045526858	0.077834749687054
NINJ1	blue	blue	0.0779664791	-0.00994029	0.1422619407	-0.00904896
FAM120A	blue	blue	0.1442522523	0.0980482340	0.1138412241	0.102511279900497
AAED1	blue	blue	0.1292824882	0.0461544842	0.1312270014	0.0830504833506477
ANP32B	blue	blue	0.1330350876	0.0425467685	0.1721944774	0.0484741816128136
NANS	blue	blue	0.1019336993	0.0346839463	0.1186867608	0.070073295323945
ALG2	blue	blue	0.1603604698	0.1008535456	0.1056826026	0.122110439383995
SEC61B	blue	blue	0.1770697550	-0.02602785	0.3600472360	0.0637101207135066
ERP44	blue	blue	0.2122556813	0.0877339709	0.2251252968	0.134163206089215
SLC44A1	blue	blue	0.1746770501	0.0812089999	0.1278068260	0.158176537945973
TMEM38E	blue	blue	0.0853750775	0.0177924353	0.0970657800	0.0611899677805683
RAD23B	brown	brown	0.1866066140	0.1116810641	0.1238101126	0.219892522040692
TXN	blue	blue	0.0821110843	-0.07531481	0.2641587094	-0.01513771
SVEP1	brown	brown	0.2703197370	0.2140209309	0.1137065184	0.435045922446796
DNAJC25	blue	blue	0.1136343244	0.0611933389	0.1026626771	0.119285113177924
CDC26	blue	blue	0.0625030821	-0.03663705	0.2027874704	0.024713645527264
RGS3	blue	blue	0.1705796534	0.0992693192	0.1388549731	0.0687660528650173
ATP6V1G	blue	blue	0.1697194814	0.0174756273	0.2754752154	0.0896745753887205
RAB14	blue	blue	0.1945989827	0.0830971816	0.1835755016	0.146294988299873
STOM	blue	blue	0.2318684119	0.0769300124	0.2503094819	0.203299824412427
NDUFA8	blue	blue	0.0940811527	-0.01561179	0.1996126209	0.0225785418648412
PDCL	blue	blue	0.0933288019	0.0338492464	0.0902270499	0.0580076652905504
NEK6	blue	blue	0.1228569077	0.0604085904	0.1200545087	0.0692034593927839
PSMB7	blue	blue	0.0784629809	-0.05547503	0.2359998620	0.00409171199819745
RPL35	blue	blue	-0.01450825	-0.30271301	0.3888338896	-0.0576284
ARPC5L	blue	blue	0.1121358827	0.0027853771	0.1618782680	0.0174525751943601
PPP6C	blue	blue	0.1265046911	0.0415628488	0.1298484392	0.0736661624523035
RABEPK	blue	blue	0.0938451936	0.0476574969	0.0896358697	0.0577912026035829
HSPA5	blue	blue	0.3649039506	0.1321619611	0.3396715274	0.32148914073795
ANGPTL2	blue	blue	0.2521721645	0.0961378449	0.2399645123	0.259975471039821
RPL12	blue	blue	-0.04498547	-0.32594288	0.4218578385	-0.13313719
TOR2A	blue	blue	0.0735548318	0.0563148710	0.0596399485	0.0575407124444567
ENG	blue	blue	0.2407017838	0.1215690569	0.1978167320	0.205969727442549
C9orf16	blue	blue	-0.00661766	-0.11480643	0.1587548060	-0.04371105
SWI5	blue	blue	0.0158776644	-0.06514339	0.1423896317	0.00440761970002071
URM1	blue	blue	0.1091922413	0.0416845896	0.1178594530	0.0467238555769048
CERCAM	blue	blue	0.1446629320	0.0378102588	0.1321733436	0.0999526776833264
SET	blue	blue	0.1803629960	0.0511294139	0.1846108419	0.093788035567085
ENDOG	blue	blue	0.1335825891	0.0189202750	0.1960136019	0.072939135622012
CRAT	blue	blue	0.1062028041	0.0702417844	0.0456699308	0.0642757923106451
C9orf78	blue	blue	0.1178514347	0.0371021802	0.1203239250	0.0417987341505929
EXOSC2	blue	blue	0.0771225459	0.0471191248	0.0472883977	0.0244776026165175

ABL1	blue	blue	0.1607462526;0.0956243191;0.0846968014;0.0979623369521503
MED27	blue	blue	0.0721413814;0.0500007515;0.0535812098;0.0318966530635698
RPL7A	blue	blue	0.0355928412; -0 29022369 0.5046871237; -0 08790117
SURF1	blue	blue	0.0769503241; -0 03825907 0.1974584475;0.0516688576018408
SURF2	blue	blue	0.0427886257; -0 03203326 0.1392305367; -0 00043217
PPP1R26	blue	blue	0.0595493840;0.0357120955;0.0383926902;0.0280283761306935
EGFL7	blue	blue	0.1152366944;0.0485425443;0.1092438834;0.118510793499199
AGPAT2	blue	blue	0.0890947316; -0 01198149 0.1745153906;0.0789643778795036
TMEM141	blue	blue	0.0821652787; -0 01941878 0.2029499773;0.0307794517809105
PHPT1	blue	blue	0.1123778000; -0 04070208 0.2612041407; -0 0203999
EDF1	blue	blue	0.1621381558; -0 08984726 0.4223455225;0.0635308220823459
PTGDS	blue	blue	0.0880636311; -0 08973217 0.2512129383;0.18258349864274
DPP7	blue	blue	0.1635498646;0.0560217189;0.2233081866;0.125421151281404
SSNA1	blue	blue	0.1170841474;0.0527830386;0.1450991907;0.054626240597454
TMEM203	blue	blue	0.1422737211;0.0403405319;0.1677486831;0.0875110093118607
TUBB4B	blue	blue	0.1720009352; -0 0198707 0.2577044999;0.0782064216425514
MRPL41	blue	blue	0.1507218407;0.0179566869;0.2049990897;0.106562791836085
PSMD13	blue	blue	0.1038045018;0.0605961829;0.0741078149;0.0484570631026429
IFITM2	blue	blue	0.0884722720; -0 07159978 0.1620407849;0.107296007058366
IFITM1	blue	blue	0.1656259437; -0 01464326 0.3619478832;0.100250230936843
IFITM3	blue	blue	0.0289698968; -0 30788012 0.4191851917;0.0613564904119872
SIGIRR	blue	blue	0.0381198637;0.0143937535;0.0763943536;0.018101669829228
RNH1	blue	blue	0.1486530135;0.0887692645;0.1618358291;0.0693541130897402
HRAS	blue	blue	0.0948039152 0.0211669222;0.1149309056;0.0552777702575065
TALDO1	blue	blue	0.1019471879; -0 02719672 0.2307063237;0.045855182587433
RPLP2	blue	blue	-0 02204663 -0 31893117 0.3846424240; -0 03417584
CD151	blue	blue	0.2162799863;0.0493952358;0.2567101963;0.113889503060302
POLR2L	blue	blue	0.0709626645; -0 15650897 0.3609478368;0.00277486738274418
TSPAN4	blue	blue	0.2186041805;0.1027918951;0.2245104267;0.186296217175382
CHID1	blue	blue	0.1186285677; -0 01424404 0.2039600262;0.0708853223889434
MOB2	blue	blue	0.1345893410;0.1083435962;0.0736432291;0.0980639704499491
CTSD	blue	blue	0.2415373815;0.0361238386;0.2541323482;0.223021343798239
MRPL23	blue	blue	0.0510800968; -0 02911837 0.1174691955;0.0381554828168912
CD81	blue	blue	0.1558376681; -0 05639558 0.2120160388;0.258038201434843
TSSC4	blue	blue	0.1162085809;0.0427193819;0.1410873585;0.0815618558758981
CAVIN3	blue	blue	0.1541993738; -0 01123954 0.2539295645;0.0314836829932869
ILK	blue	blue	0.2143052830 0.1390409178;0.1718800751;0.15329246292537
TAF10	blue	blue	0.0380625467; -0 05387484 0.1769829752; -0 01996231
OLFML1	blue	blue	0.1599031150;0.0520504746;0.1630717807;0.124251281179441
EIF3F	blue	blue	0.0903700254; -0 04363164 0.2548387796; -0 00397651
RPL27A	blue	blue	-0 01414211 -0 25812085 0.3346021621; -0 06714786
AKIP1	blue	blue	0.1196050832;0.0594740878;0.1305548090;0.0568121165753636
DENND5A	blue	blue	0.1194345881;0.0619624168;0.0932796614;0.0920924384575833
RNF141	blue	blue	0.0774584262;0.0420249993;0.0492308274;0.0609523794779864
CTR9	brown	brown	0.1486837956;0.0974800503;0.0896485682;0.180821502511053
EIF4G2	blue	blue	0.2100496566;0.0728178130;0.1736201653;0.186213646658559
BTBD10	blue	blue	0.0382782481 -0 00116854 0.0418390580;0.00596313051581691
COPB1	blue	blue	0.1315929158;0.0351334669;0.1515119311;0.115829483883185

PSMA1	blue	blue	0.1243649417	0.0073152712	0.1827095507	0.0800638273839223
C11orf58	blue	blue	0.2356217720	0.1827927544	0.1901631342	0.110397088207442
RPS13	blue	blue	0.0137514702	-0.26899524	0.4663401802	-0.08078726
NUCB2	blue	blue	0.0732530611	-0.07299334	0.1926259044	0.091614974691043
LDHA	blue	blue	0.1574505036	-0.02945483	0.2826642921	0.0732460992809875
HTATIP2	blue	blue	0.1251010819	0.0385008452	0.1727950731	0.0841226027841229
ARL14EP	blue	blue	0.1144370330	0.0545848809	0.1281578646	0.0582969414462291
RCN1	blue	blue	0.1916327630	-0.02868571	0.3200952633	0.176952756182303
EIF3M	blue	blue	0.0975146831	-0.01699388	0.1836852037	0.0512972503919698
CD59	blue	blue	0.1743223162	0.0505891034	0.2034764416	0.106908298582038
LMO2	blue	blue	0.1537040813	0.0983669982	0.1236465574	0.121911225938816
CAPRIN1	blue	blue	0.1851218538	0.0819934597	0.1568862329	0.118342854148624
APIP	blue	blue	0.0658476476	0.0431706691	0.0645077826	0.0641790694943422
C11orf74	blue	blue	0.0394604314	-0.03171336	0.1280565211	0.0056861718266286
HSD17B12	blue	blue	0.1673944284	0.0634662749	0.1783249537	0.144020583122428
ALKBH3	blue	blue	0.0573034103	0.0026899339	0.1131571307	0.042633815767834
C11orf96	blue	blue	0.1140715535	0.0481649976	0.0894960026	0.0237895869525877
EXT2	blue	blue	0.1304957752	0.0312356109	0.1570386160	0.103239795659942
SLC35C1	blue	blue	0.0806989628	0.0030688390	0.0705751200	0.0348741260142021
MDK	blue	blue	0.2256066736	-0.04813226	0.4449918014	0.139236159025681
ACP2	blue	blue	0.1116555840	0.0414670194	0.1227818212	0.0408135086612144
PSMC3	blue	blue	0.1001957571	-0.02319628	0.2093638461	0.0378479313581083
PTPMT1	blue	blue	0.1083014341	0.0123307946	0.2093463864	0.0534469610089387
APLN	blue	blue	0.1210457045	0.0399674631	0.1127587576	0.0600912625589018
TIMM10	blue	blue	0.0702293703	-0.03218515	0.1810581624	0.00864049124802185
UBE2L6	blue	blue	0.1284553438	-0.01272522	0.2232756156	0.0495156602081532
SERPINC1	blue	blue	0.2794161719	0.0820334272	0.2815779435	0.309261852308687
ZDHHC5	blue	blue	0.1015192322	0.0156399381	0.1050762833	0.0871433471421318
SELENOH	blue	blue	0.0792588045	-0.01049044	0.1831859963	0.00894881251869484
OSBP	blue	blue	0.1169498458	0.0582763442	0.0863212336	0.0803676934968267
MRPL16	blue	blue	0.1263185484	0.0555260470	0.1600020955	0.0886549293533324
TMEM109	blue	blue	0.1447694570	0.0240892919	0.1920024373	0.117317944643849
TMEM258	blue	blue	0.1480171873	-0.0625611	0.3579402646	0.0349927364090276
FADS1	blue	blue	0.0924862251	0.0359171425	0.0811861181	0.0568877571681951
FTH1	blue	blue	-0.07976448	-0.44549191	0.4630978524	-0.09083914
INTS5	blue	blue	0.0672145599	0.0291010837	0.0748718456	0.0338038408538318
UQCC3	blue	blue	0.1124167212	0.0259838078	0.1653261698	0.0817079310914963
POLR2G	blue	blue	0.1463906649	0.0154483099	0.2258027786	0.0997438126220443
TMEM223	blue	blue	0.1126621716	0.0697189238	0.1228949682	0.0129272377599202
TMEM179	blue	blue	0.1498648928	0.0200907249	0.2576059705	0.0709981542933224
RARRES3	blue	blue	0.1186412801	-0.11424195	0.3609649647	0.0899508790101821
PLA2G16	blue	blue	0.1709280647	0.0475236829	0.2370404551	0.0936402585415457
COX8A	blue	blue	0.0756243780	-0.09186988	0.2956974561	0.0130910097725868
NUDT22	blue	blue	0.1377920705	0.0791902652	0.1414768780	0.0830566751102804
FKBP2	blue	blue	0.1631775082	-0.02114903	0.3093722465	0.0914885083758842
PPP1R14B	blue	blue	0.0351223148	-0.05427555	0.1159057302	-0.02373121
BAD	blue	blue	0.1243602829	-0.01838268	0.2590859615	0.0285820107245096
GPR137	blue	blue	0.0785310792	0.0102763153	0.1105327501	0.0527405885070352

TRMT112	blue	blue	0.0624228238	-0.06978187	0.2376565534	-0.01176154
PRDX5	blue	blue	0.1641321621	-0.05337539	0.3714336117	-0.0649104627039708
ARL2	blue	blue	0.1013306276	0.0276469386	0.1486110311	-0.030337280699311
SAC3D1	blue	blue	0.0802391151	0.0384922520	0.0834734746	-0.0281441452125732
FAU	blue	blue	0.0432590696	-0.26533927	0.4884848285	-0.0217699
MRPL49	blue	blue	0.0561614672	0.0091186518	0.0812417098	-0.0349201603780435
CDC42EP2	blue	blue	0.0839316548	0.0149570857	0.0826910786	-0.0564472630775494
SSSCA1	blue	blue	0.0825141441	-0.0010989	0.1689981473	-0.01190993
FAM89B	blue	blue	0.1560350893	-0.0942350725	0.1527008852	-0.090689460247291
RELA	blue	blue	0.1309807020	0.0734773199	0.1126071228	-0.0508247053119084
RNASEH2	blue	blue	0.1364662747	-0.00080446	0.2474287422	-0.0827511877091269
CFL1	blue	blue	0.1667841403	-0.06343283	0.3316146801	-0.0246209269226649
EFEMP2	blue	blue	0.2402462497	0.0116411050	0.3194618861	-0.193699068620281
FIBP	blue	blue	0.1399019876	-0.01035957	0.2480651873	-0.0469059848991041
CCDC85B	blue	blue	0.0759935494	-0.03845863	0.1707007047	-0.0213246295252428
DRAP1	blue	blue	0.1018359999	-0.03120735	0.2220041312	-0.026643115162772
BANF1	blue	blue	0.1315385963	0.0113521939	0.2298757661	-0.0668594207756417
SF3B2	blue	blue	0.2001787028	0.1205869872	0.1615374282	-0.131589736407597
YIF1A	blue	blue	0.1985670651	0.0973458796	0.2197437502	-0.0887316591196678
CD248	blue	blue	0.1949926113	0.0777492901	0.1665038323	-0.090011800153887
B4GAT1	blue	blue	0.1554613338	0.0528240931	0.1532151220	-0.145703421232101
MRPL11	blue	blue	0.0655622254	-0.04177465	0.1695641000	-0.00490285657283849
CTSF	blue	blue	0.0952840725	0.0122556702	0.1558398456	-0.125450907947195
PC	blue	blue	0.1386990594	0.0724869615	0.1276923190	-0.0574774128737083
LRFN4	blue	blue	0.1072597159	0.0861357039	0.0524920695	-0.0397334707076153
RHOD	blue	blue	0.0339538373	-0.03795765	0.1152557206	-0.0120491099021638
POLD4	blue	blue	0.0941071488	0.0797093127	0.0915135213	-0.00324149713717158
PPP1CA	blue	blue	0.1555061065	0.0512685630	0.1849157021	-0.073960982661324
CORO1B	blue	blue	0.1098909186	-0.00324441	0.1779257974	-0.0456962239883995
GSTP1	blue	blue	0.1016275452	-0.09288679	0.3310831069	-0.01525028
NDUFV1	blue	blue	0.1361152903	0.0250072606	0.1782552076	-0.0684664436214042
UNC93B1	blue	blue	0.0784519526	0.0203876732	0.0778831698	-0.0687274200292785
MRPL21	blue	blue	0.0988272012	0.0247228030	0.1411519226	-0.041765469373479
MRGPRF	blue	blue	0.1343146993	0.0825483532	0.0995304943	-0.0890707757192005
CCND1	blue	blue	0.0364150490	0.0135329950	0.0376662804	-0.0469846785054727
RNF121	blue	blue	0.0993716938	0.0331119411	0.1172399775	-0.0713115389729928
LAMTOR1	blue	blue	0.0685086262	-0.08494834	0.2275020112	-0.00296365619835339
COA4	blue	blue	0.0861153209	0.0349241395	0.1254357117	-0.00543827
POLD3	blue	blue	0.0852685471	0.0413146683	0.0970768536	-0.0330174057152101
SPCS2	blue	blue	0.1687959078	-0.01772677	0.3316282689	-0.123503829243009
RPS3	blue	blue	0.0116817999	-0.30891667	0.5102251638	-0.08979686
MAP6	blue	blue	0.0364451201	0.0186877013	0.0248228433	-0.0237864583959903
TSKU	blue	blue	0.1841656126	0.1191790531	0.1430845031	-0.149610449046489
CLNS1A	blue	blue	0.1112181108	0.0570508952	0.1413169152	-0.0628095289758878
AAMDC	blue	blue	0.1069477154	-0.03438716	0.2395814470	-0.0511451571042725
NDUFC2	blue	blue	0.2258358483	0.0287065274	0.3740450083	-0.141859776070201
PRCP	blue	blue	0.0909582022	-0.02680604	0.1639559378	-0.0622264718325608
CCDC90B	blue	blue	0.1405367328	0.0656207017	0.1769851059	-0.0356821358738918

TMEM126	blue	blue	0.0747108380	-0	01183659	0.1503059888	(0.0322739121024686
HIKESHI	blue	blue	0.1085325246	0.0205521428	0.1763326260	(0.0198590456660764	
CTSC	blue	blue	0.2742146469	0.1031633066	0.2965925550	(0.216017801573982	
CWC15	blue	blue	0.1082861179	0.0149842379	(0.1907736290	0.0209606129588104	
SRSF8	blue	blue	0.1026823299	0.0501924645	0.1225629223	0.0503554800223995	
ENDOD1	blue	blue	0.2193109084	0.1017161198	0.1955635311	0.207983502332563	
MTMR2	blue	blue	0.1126666479	0.0649445535	0.0989644380	0.0567459756778722	
TMEM123	blue	blue	0.1504579114	0.0453034285	0.1505323980	(0.129864889680324	
CASP1	blue	blue	0.1353111158	0.0811927907	0.1161190808	0.0687848440014251	
CARD16	blue	blue	-0	00569162	-0	08554886 0.1542639326	
KDELC2	blue	blue	0.2295270335	0.0705952902	0.2396705377	0.155889226879452	
RDX	blue	blue	0.1903000632	0.0916950411	0.1750091669	0.139298959168802	
FDX1	blue	blue	0.1170587107	0.0364188193	0.1334305412	0.0631841463916701	
CRYAB	blue	blue	0.1321956654	-0	01529842	0.2267051736	
HSPB2	blue	blue	0.0978200358	0.0513337352	0.1157821688	(0.0422365266212542	
DLAT	blue	blue	0.0617398673	0.0040350378	0.0878683629	0.0318806947564436	
NKAPD1	blue	blue	0.1237760502	0.0846607179	(0.0920151668	0.0748046001874515	
TIMM8B	blue	blue	0.0875035613	-0	06255651	0.2669079327	
SDHD	blue	blue	0.1401434335	0.0117527488	0.2067396752	0.0855157492316405	
PTS	blue	blue	0.1226660709	0.1248847811	0.0730716177	(0.0351418154819467	
NNMT	blue	blue	0.2907450174	(0.0851895922	0.3251018190	0.176740383831147	
REXO2	blue	blue	0.1795240435	0.0408270792	0.2491866360	0.110129425673743	
ZPR1	blue	blue	0.0490674541	-0	00084307	0.0820936179	
TAGLN	blue	blue	0.0868493446	-0	17925111	0.3380645248	
ATP5MG	blue	blue	0.0593082399	-0	13998411	0.3544526273	
RPS25	blue	blue	0.0155434928	-0	25703663	0.4486822952	
TRAPPC4	blue	blue	0.1442051897	(0.0577447004	0.1592888102	0.0498342737394187	
VPS11	blue	blue	0.1053235995	(0.0486454509	0.1087225375	0.0763189501519472	
H2AFX	blue	blue	0.0602887354	-0	00941633	0.0897239828	
MCAM	blue	blue	0.1425193237	0.0905498176	(0.0559725448	0.0275059190457449	
RNF26	blue	blue	0.0913075947	0.0269698748	0.1157679057	0.0470413243603404	
THY1	blue	blue	0.1385265929	-0	02790813	0.1531183126	
NECTIN1	blue	blue	0.0829950094	0.0701451095	(0.0331059485	0.0374438835520069	
SORL1	brown	brown	0.1681102036	0.1523344886	0.0783453547	0.232183689668495	
HSPA8	blue	blue	0.3020823829	0.0569920936	0.4204610708	0.159979664020161	
TMEM218	blue	blue	0.1089192987	0.0496270363	0.1177299229	0.047791941774777	
FEZ1	blue	blue	0.0923331637	0.0283385527	0.1148905982	0.0342120507091687	
APLP2	blue	blue	0.2501300183	0.0761169926	0.2604168073	0.208779345526771	
THYN1	blue	blue	0.0278555015	-0	03164378	0.1047377204	
ZMYND11	brown	brown	0.1464178379	0.1280251889	0.0580941105	0.160109086288283	
AKR1C1	blue	blue	0.1699705772	(0.0716041137	0.2008240741	0.0859427158226503	
AKR1C3	blue	blue	0.1176391603	-0	00969913	0.2255969801	
GDI2	blue	blue	0.1058436175	-0	01945786	0.1627117013	
ITIH5	blue	blue	0.3222220726	0.1823997630	0.2264486470	0.350748742792331	
ATP5F1C	blue	blue	0.1045491139	-0	05247811	0.2403171267	
NUDT5	blue	blue	0.1346252936	0.0952300119	(0.1522953922	0.0432894975567966	
CDC123	blue	blue	0.1404785783	0.0390264262	0.1596823328	0.0575159662585885	
SEPHS1	blue	blue	0.0950514219	(0.0169001081	0.1016556019	0.0651644031908869	

PRPF18	blue	blue	0.0837372641:0.0443219420' 0.0978750129:0.0471818430267331
VIM	blue	blue	0.0556566701: -0 30561506 0.4370571483:0.0340213837069575
DNAJC1	blue	blue	0.2259379956:0.1160557948' 0.2085524775:0.161306045087237
COMMD3	blue	blue	0.1250226935:0.1065458637:0.0951601345:0.0671529493525004
MSRB2	blue	blue	0.1036410853: -0 00620753 0.1967567723:0.0603794892430825
PRTFDC1	blue	blue	0.0847785111:0.0871664340:0.0207902593:0.0380639807446308
SVIL	blue	blue	0.1305371963:0.0856891272:0.0881259725:0.0658089728406939
ITGB1	blue	blue	0.2678482912:0.0252627892:0.3262291153:0.271632894090937
CUL2	blue	blue	0.1052849370:0.0590290108:0.1017968628:0.0431921961416883
CREM	blue	blue	0.0355834278:0.0058580237:0.0768862305' -0 0169021
FZD8	brown	brown	0.2332002230:0.1731065655:0.0866213467:0.319620911367125
HNRNPF	blue	blue	0.1805827448:0.0809333298:0.1916564904:0.0989197200512772
ZNF22	blue	blue	0.1701360943:0.0768916199:0.1793634547:0.0874401482042808
NCOA4	blue	blue	0.2027057109:0.0947987481:0.1420539623:0.221962890909806
ZNF488	blue	blue	0.0638300124:0.0077911432:0.0786725202:0.0360481876609926
SGMS1	blue	blue	0.1519534681:0.0880154717:0.0882314249:0.111954044726646
CISD1	blue	blue	0.0941678081:0.0210475328:0.1529900872:0.00453256360163872
TFAM	blue	blue	0 163950888 0.0897759307:0.1618133581:0.130000267340729
CCDC6	blue	blue	0.1316594078:0.0504115850:0.1320761332:0.0724728309408787
ARID5B	blue	blue	0.2699083977:0.1895597170:0.2206770669:0.207786556754959
NRBF2	blue	blue	0.0900933645:0.0715908152:0.0620391367:0.072618705305196
REEP3	blue	blue	0.1997518941:0.0605096302:0.2225442205:0.129364975639959
DDX50	blue	blue	0.0987388383:0.0675164086:0.0877271559:0.0422311708733791
SRGN	blue	blue	0.1263289079: -0 0504305 0.2260427984:0.0754897863181976
VPS26A	blue	blue	0.1247747556:0.0249702996:0.1524113676:0.0569389288738647
H2AFY2	blue	blue	0.0446997633:0.0046729525:0.0641745638:0.0510429855466081
AIFM2	blue	blue	0.1530277534:0.0893894288:0.1333405100:0.0897632043861514
SAR1A	blue	blue	0.2314787771:0.1001820961:0.2303772088:0.176636794121022
PPA1	blue	blue	0.1880419147:0.0396931960:0.2648627359:0.0814996361661705
UNC5B	brown	brown	0.1931960519:0.1395499434:0.0734566734:0.231942033580531
VSIR	blue	blue	0.2199083745:0.0989160482:0.2252867689:0.115519264509558
PSAP	blue	blue	0.2488848545:0.0797854101:0.1926669924:0.281051021410626
ANAPC16	blue	blue	0.1518366910:0.0589821271:0.1747007840:0.122188006612559
DDIT4	blue	blue	0.2272287538:0.1656808000:0.1569433282:0.11261455234023
P4HA1	blue	blue	0.1097373482:0.0405217321:0.1154480336:0.0611342178262479
MRPS16	blue	blue	0.1122590836:0.0196530553:0.1785330666:0.0378044912637395
ANXA7	blue	blue	0.0453384798: -0 1079042 0.1901250535:0.0453073169094086
CHCHD1	blue	blue	0.1289715999:0.0626900850:0.1907166085:0.0511680957577221
SAMD8	blue	blue	0.1136346017 0.1151974283:0.0488419363:0.107930374068116
VDAC2	blue	blue	0.1720851499 0.0674139312:0.2154179379:0.0834440610738875
LRMDA	blue	blue	0.1190836894 0.0409638416:0.1852080478:0.0601241479019234
RPS24	blue	blue	-0 07515254 -0 34099633 0.3882345362' -0 16373876
PLAC9	blue	blue	0.0771190596: -0 13371406 0.3028866155:0.0290267044514497
ANXA11	blue	blue	0.1537237472:0.0845506417:0.1099311154:0.100222380646073
GHITM	blue	blue	0.0987042906: -0 02453855 0.2137022663:0.046800311154399
ADIRF	blue	blue	0.0422238764: -0 05861423 0.1893056568:0.0064384987518218
MINPP1	blue	blue	0.1021911633:0.0679683316:0.0627640218:0.0613933727849829
ATAD1	blue	blue	0.1087325039:0.0486418827:0.1097500651:0.100365245242452

ACTA2	blue	blue	0.0548016950	-0.03355248	0.1150579946	-0.08682171
LIPA	blue	blue	0.1031505103	-0.00580094	0.1628806229	0.081799965982812
IFIT2	blue	blue	0.1017448288	0.0454043367	0.1062742338	0.0854382853848852
PPP1R3C	blue	blue	0.1207885862	0.0660123770	0.0943622864	0.0834311967823866
5-3月	blue	blue	0.1053910745	0.0419908678	0.1011122087	0.103809887358195
PDLIM1	blue	blue	0.1709072346	0.0303560934	0.2361515878	0.0550813794923849
PGAM1	blue	blue	0.1402793697	-0.04827523	0.2949113129	0.0571963054922032
UBTD1	blue	blue	0.1020995243	0.0224464475	0.1329153108	0.0378361003904506
PI4K2A	blue	blue	0.0401789886	0.0063565504	0.0601544087	-0.00480918
MARVEL1	blue	blue	0.1792392951	0.0848470493	0.1353045410	0.12272607100889
BLOC1S2	blue	blue	0.0457649900	0.0014114534	0.0969551048	0.0186248229404943
NDUFB8	blue	blue	0.1594774339	-0.02252959	0.3293051391	0.0564037672338038
HIF1AN	blue	blue	0.1846739294	0.1542536375	0.0971494021	0.119640807892184
MRPL43	blue	blue	0.1462396686	0.1017317093	0.1341865675	0.0671561368711771
KAZALD1	blue	blue	0.0676152557	0.0167532269	0.0655546190	0.0594848481427687
DPCD	blue	blue	0.1068645316	0.0612306569	0.1186254397	0.0286597585560277
NPM3	blue	blue	0.0229985274	-0.03181505	0.0937809128	-0.01089005
CUEDC2	blue	blue	0.0943395456	-0.01899222	0.1712832082	0.052483005878687
ARL3	blue	blue	0.1398225573	0.0317633249	0.1937661052	0.0521095451453784
BORCS7	blue	blue	0.1317440161	0.0745743009	0.1286745539	0.0779049623843543
ATP5MD	blue	blue	0.0768683587	-0.08641217	0.2779098733	0.0120242066320012
GSTO1	blue	blue	0.1061658075	-0.07065061	0.2819858489	0.0116345465998652
ACSL5	blue	blue	0.1233223227	0.0724610616	0.1125254844	0.119241350305568
GFRA1	blue	blue	0.1753628149	0.0572679244	0.1564427873	0.233634302231304
PRDX3	blue	blue	0.1596098994	0.0653396126	0.1642831497	0.123451391379092
RGS10	blue	blue	0.0491581308	-0.01110587	0.1073269752	0.00540933125513621
HTRA1	blue	blue	0.1736071785	0.0156355161	0.2239720893	0.0326102601378015
GLRX3	blue	blue	0.1344967868	0.0666762461	0.1503055317	0.0638711680651369
ZNF511	blue	blue	0.0599469646	0.0125765152	0.0991442772	0.010771300496475
FUOM	blue	blue	0.0638673234	-0.01754555	0.1386109824	0.0002301720536268
ECHS1	blue	blue	0.0894377906	0.0003419323	0.2039810588	0.00796470237449342
NDUFA9	blue	blue	0.0736579983	0.0166892626	0.1131256795	0.0359717163703625
TNFRSF1	blue	blue	0.3680808054	0.1890148215	0.3570088188	0.241562507846926
TAPBPL	blue	blue	0.1032855947	0.0151316868	0.1537301780	0.0465727631002915
MRPL51	blue	blue	0.1045007775	-0.06437249	0.2734746259	0.0252784731715534
GAPDH	blue	blue	0.0776945437	-0.19523194	0.4025375628	-0.06420295
PTMS	blue	blue	0.1347747769	0.0081691410	0.2032353478	-0.00287903
P3H3	blue	blue	0.1270576363	0.0458210881	0.1320020577	0.0465206307171184
USP5	blue	blue	0.1607300491	0.0758909951	0.1265612026	0.0937036447093251
TPI1	blue	blue	0.1389017398	-0.06154991	0.2786959478	0.0412912214736284
C12orf57	blue	blue	0.0424760405	-0.15443442	0.3459484822	-0.0040281
PHB2	blue	blue	0.1320544767	-0.02759517	0.2431359331	0.0375924695824117
LPCAT3	blue	blue	0.1325344355	0.0747006156	0.0989177853	0.101525191324929
C1R	blue	blue	0.3441033338	0.0875254483	0.3929598214	0.310831686387283
CLEC2B	blue	blue	0.0571330770	0.0067709296	0.1070902590	-0.0018026
YBX3	blue	blue	0.1553771716	0.0787302272	0.1282530010	0.060365092417082
SMIM10L	blue	blue	0.1032305460	0.0803284344	0.0824272872	0.0460766546236112
CREBL2	blue	blue	0.0729368623	0.0143302896	0.0810549424	0.0343279576819641

CDKN1B	blue	blue	0.1483824314;0.1005996044;0.1153800405;0.105381677145711
HEBP1	blue	blue	0.1313218350;-0 04092623 0.2667009470;0.0974789029880799
EMP1	blue	blue	0.1376153765;0.0295478414;0.1225551330;0.0171777458003665
H2AFJ	blue	blue	0.2208454249;0.1127322599;0.2317592600;0.137854822567289
WBP11	blue	blue	0.1495664797 0.0841784554;0.1405518036;0.105209987484091
MGP	blue	blue	0.0673469740;-0 07710132 0.2411098043;-0 01888306
ARHGDIB	blue	blue	0.0658033379;0.0080733241;0.0979505354;0.0347564565680278
STRAP	blue	blue	0.1133946373;-0 00914204 0.1823776972;0.071880596869692
MGST1	blue	blue	0.1134360436 0.0155942657;0.1785556849;0.0891861247007378
GOLT1B	blue	blue	0.1232605596;0.0516195440;0.1290226742;0.0935054503055558
LDHB	blue	blue	0.0927171868;-0 0729517 0.2740195210;0.020781901491809
KCNJ8	blue	blue	0.0884916229;0.0163520319;0.1059571580;0.035464323272162
BHLHE41	blue	blue	0.1730158146;0.1255492701;0.1135321805;0.104180015835411
SSPN	blue	blue	0.2075946276;-0 00035898 0.3090650542;0.181089057940886
MRPS35	blue	blue	0.0563812821;-0 00174347 0.1177873309;0.011054792874951
ERGIC2	blue	blue	0.1357625632;0.0532921422;0.1429539439;0.0907592145754552
CPNE8	blue	blue	0.0595188981;0.0170053792;0.0904273284;0.00242408857807528
YAF2	blue	blue	0.1372818138;0.1000172634;0.0957997465;0.0906349790566069
ZCRB1	blue	blue	0.1526168860 0.0618544258;0.1628925414;0.102313125440108
ANO6	blue	blue	0.1576220958;0.0736963770;0.1461021431;0.114194450931085
ASB8	blue	blue	0.0854165974;0.0299041562;0.0866497233;0.0647080368347764
FKBP11	blue	blue	0.1301138631;0.0868478145;0.1355242611;0.0433743667961231
TUBA1B	blue	blue	0.2017923839;-0 00032004 0.2597578849;0.0963694751361301
TUBA1A	blue	blue	0.1993881607;0.0192875790;0.2890364149;0.0375939218332019
TUBA1C	blue	blue	0.1463208320;0.0411574629;0.1501752091;0.0386425560018638
TMBIM6	blue	blue	0.2939564599;0.1108147458;0.2434414417;0.291390382765811
COX14	blue	blue	0.0924647081;-0 03647506 0.2267077664;0.0499355639255207
ATF1	blue	blue	0.0824511155;0.0384132310;0.0949982226;0.069845563207066
ACVRL1	blue	blue	0.1329717131 0.0367703635;0.1506565013;0.0835947065246613
EIF4B	blue	blue	0.1395706085;0.0806573139;0.1176956159;0.0750907145604295
IGFBP6	blue	blue	0.0951767698;-0 05537129 0.2139874139;0.0782996991644603
PFDN5	blue	blue	0.0289752455;-0 15976172 0.3107382007;-0 03880896
C12orf10	blue	blue	0.0950412775;0.0393823629;0.1348723011;0.0644686284965325
PCBP2	blue	blue	0.2199807965;0.1929826184;0.1071344046;0.123219032410517
ATP5MC2	blue	blue	0.1543846352;-0 0458752 0.3551378356;0.06555515047323
HNRNPA1	blue	blue	0.1040895710;-0 05958769 0.2589632284;0.00684092355887228
COPZ1	blue	blue	0.1657548029;0.0298653571;0.2344249367;0.100821226494471
BLOC1S1	blue	blue	0.0293784638;-0 10218621 0.2332579003;-0 01960035
CD63	blue	blue	0.2079908102;-0 15388642 0.5534797750;0.122328741996466
ORMDL2	blue	blue	0.0889800186;0.0420095172;0.1138805160;0.0216213750863465
RPS26	blue	blue	0.1667274330;-0 05681809 0.3756716657;0.0619533611594092
PA2G4	blue	blue	0.1961691722;0.0941899464;0.1983811358;0.118016125921565
RPL41	blue	blue	-0 04396339 -0 37723803 0.5162772513;-0 13949703
ESYT1	blue	blue	0.1706424666;0.0993067664;0.1292541222;0.0978571834510118
MYL6B	blue	blue	0.0523969259;-0 02795861 0.1696830287;0.0167999465619251
MYL6	blue	blue	0.1301931532;-0 12931945 0.3654828838;0.018492223972699
NABP2	blue	blue	0.0728331389;-0 0031481 0.1088140975;0.022382684310404
CNPY2	blue	blue	0.1756070200;0.1518952936;0.1517949507;0.0614613372216703

ATP5F1B	blue	blue	0.1779091745	0.0127834983	0.2735610634	0.0708941492	117923		
PTGES3	blue	blue	0.1305743318	-0	01378246	0.2194757459	0.0450612474646613		
NACA	blue	blue	-0	03029877	-0	23351321	0.3865797608	-0	13632137
LRP1	brown	brown	0.3640944027	0.2711546379	0.1612618197	0.5121475002	76496		
NDUFA4L	blue	blue	0.0060592627	-0	02916634	0.0653930771	0.0167993854647513		
DDIT3	blue	blue	0.1289553169	0.1007630231	0.0665027484	0.0552959377	400682		
DCTN2	blue	blue	0.1495639196	0.0284907567	0	224164383	0.0625340057469315		
OS9	blue	blue	0.1990015775	0.0992486446	0.1847935785	0.145506298003805			
TSPAN31	brown	brown	0.1869788427	0.1505029275	0.1204678414	0.199063088904011			
TSFM	blue	blue	0.1104692604	0.0530224834	0.1036718163	0.0522563552943719			
XPOT	blue	blue	0.1446215785	0.1229331685	0.0786526595	0.109762691486383			
GNS	blue	blue	0.1878634615	0.0748438773	0.1717723605	0.181173156940936			
TMBIM4	blue	blue	0.2123626748	0.0747235137	0.3121544628	0.102138041095254			
LINC0238	blue	blue	0.1735378191	0.1277026711	0.1366232181	0.0900870110816123			
RAP1B	blue	blue	0.2828519852	0.1467847520	0.2926057570	0.135702525002692			
CCT2	blue	blue	0.1674864808	0.0789269685	0.1703905569	0.0787737848423224			
KCNMB4	blue	blue	0.0523498822	0.0016007356	0.0389019894	0.0547392538585059			
TSPAN8	blue	blue	0.0768387934	0.0189867976	0.1266168971	0.0384430118716069			
THAP2	blue	blue	0.0557731736	0.0084827477	0.0671443649	0.0317476131102812			
RAB21	blue	blue	0.1482935961	0.0835012668	0.1273262005	0.111616651982728			
GLIPR1	blue	blue	0.1027926940	0.0188141251	0.1103458258	0.0344852463717894			
KRR1	blue	blue	0.1094135045	0.0536300742	0.1147593479	0.0495135906512681			
NAP1L1	blue	blue	0.1315012598	0.0229324495	0.2077369057	0.0883354662293123			
BBS10	blue	blue	0.1167857475	0.0516001764	0.0894735072	0.128443483976391			
LIN7A	blue	blue	0.0721756798	0.0441728355	0.0549330743	0.0605424517773151			
METTL25	blue	blue	0.0651124888	0.0605309899	0.0553476212	0.0333979452169243			
TMTC3	blue	blue	0.2064829801	0.1251300845	0.1433635334	0.12924287938906			
LUM	blue	blue	0.2405126097	0.0493809642	0.3204559113	0.120799137549123			
DCN	blue	blue	0.1927614906	-0	04309412	0.3355597200	0.156851809541919		
BTG1	blue	blue	0.2398602578	0.1725261454	0.2049553295	0.0954173365340101			
EEA1	blue	blue	0.2285790394	0.1217445866	0.1908031615	0.159883161779616			
UBE2N	blue	blue	0.1091883467	0.0256889193	0.1379712915	0.0736852629812658			
NDUFA12	blue	blue	0.1534519183	-0	01058642	0.2974740455	0.0623934009493341		
SNRPF	blue	blue	0.1141867385	-0	00253718	0.1951843397	0.0404561099409913		
SLC25A3	blue	blue	0.1976699736	0.0079792805	0.3082640817	0.13758531146027			
IKBIP	blue	blue	0.1682396510	0.0533004114	0.2247471271	0.121393213080716			
ARL1	blue	blue	0.1620531463	0.0602971206	0.1611237946	0.117230754510991			
CHPT1	blue	blue	0.1321956595	0.0642481206	0.1356220268	0.0943760718841598			
DRAM1	blue	blue	0.1220926746	0.0800204969	0.0778495132	0.0691919258800487			
WASHC3	blue	blue	0.0663764712	-0	01149929	0.1290561900	0.0142319338148033		
NUP37	blue	blue	0.0532688235	-0	01338583	0.1133776849	0.042079880468776		
HSP90B1	blue	blue	0.3536806358	0.1303682845	0.3367457562	0.362090251474067			
PRDM4	blue	blue	0.0560181226	0.0404287911	0.0191158829	0.0303959514206462			
ISCU	blue	blue	0.1478414888	-0	01140381	0.2933400622	0.0797999955097093		
MMAB	blue	blue	0.1194914390	0.0416090546	0.1420170286	0.0762180801309711			
ARPC3	blue	blue	0.1574536240	0.0070245130	0.2709722783	0.0437297661256104			
GPN3	blue	blue	0.0075612237	-0	06988923	0.0985136791	-0	01005157	
VPS29	blue	blue	0.1833722292	0.0599298896	0.2202641174	0.112064012477825			

PPP1CC	blue	blue	0.1370819016	0.0558589422	0.1478930894	0.1071475067	74334
ALDH2	blue	blue	0.0809478189	0.0459903137	0.0880566675	0.0904600814	945743
ERP29	blue	blue	0.1977549870	0.0617408299	0.2629561961	0.1210727902	09472
RPL6	blue	blue	0.0057988795	-0 25534697	0.3982158071	-0 08247354	
PEBP1	blue	blue	0.1244947547	-0 01911186	0.2447907994	0.0319029153	859246
RAB35	blue	blue	0.0649205627	0.0293004431	0.0467889780	0.0197676253	633435
RPLP0	blue	blue	0.0173313994	-0 26524608	0.3605287878	-0 02065206	
COX6A1	blue	blue	0.1331376325	-0 07490167	0.3581779102	0.0617032388	664814
TRIAP1	blue	blue	0.0696358103	0.0120290222	0.1371038264	-0 01579504	
SRSF9	blue	blue	0.1460059550	0.0286251999	0.2548170628	0.0434591427	041045
DYNLL1	blue	blue	0.1433130880	-0 08957208	0.3814899976	0.0191939382	059792
MLEC	blue	blue	0.2281198998	0.0726572483	0.2446089812	0.1779291834	237
ACADS	blue	blue	0.0524742878	0.0529940641	0.0288028457	0.0116241448	871374
C12orf43	blue	blue	0.0811194927	0.0703315885	0.0574882940	0.0582387356	091064
ORAI1	blue	blue	0.1184611887	0.0493060860	0.1382491413	0.0560012093	090033
DENR	blue	blue	0.1344041077	0.1065386865	0.1002473025	0.0888217988	061922
ARL6IP4	blue	blue	0.1383030088	0.0564140824	0.1717912955	0.0760805482	257548
C12orf65	blue	blue	0.1010646266	0.0324873272	0.1419042906	0.0133542639	630406
CDK2AP1	blue	blue	0.0428041278	-0 02603334	0.0946618587	0.0173594893	26185
TMED2	blue	blue	0.1756247216	-0 00203504	0.2753276284	0.1010478559	35671
UBC	blue	blue	0.2247049297	0.0021845572	0.3809352186	0.1379029902	83961
TMEM132	blue	blue	0.2681681654	0.1466612719	0.2074868607	0.3252325484	93016
RAN	blue	blue	0.1409286962	-0 03309793	0.2860238897	0.0549560765	613556
PXMP2	blue	blue	0.0874694756	-0 00333177	0.1286854034	0.0674434513	819099
SAP18	blue	blue	0.1976286003	0.0645454594	0.3040545986	0.1039140749	86072
RNF6	blue	blue	0.1123579056	0.0713971734	0.0875111647	0.0860199739	658836
RPL21	blue	blue	0.0320895310	-0 32412965	0.4856626767	-0 03069137	
RASL11A	blue	blue	0.0775529907	0.0386122120	0.0976139599	0.0377164575	699435
GTF3A	blue	blue	0.0935753376	-0 01767405	0.1374146403	0.0382012349	216924
MTIF3	blue	blue	0.1042190793	0.0582314135	0.1253827567	0.0453106275	360033
POLR1D	blue	blue	0.0926691146	0.0194607529	0.1563187379	0.0265670314	506666
POMP	blue	blue	0.1226714835	-0 06399511	0.3298998290	0.0017259264	7107082
UBL3	blue	blue	0.1303488331	0.0889890873	0.1035722007	0.0912182014	108896
HSPH1	blue	blue	0.0965585747	0.0185177008	0.0685295415	0.0561670183	14178
ALG5	blue	blue	0.1425654572	0.0622161607	0.1711008455	0.0801686767	955015
LHFPL6	blue	blue	0.1951449143	0.0490940878	0.1975387402	0.2866840599	08485
ELF1	blue	blue	0.1463763226	0.0716560264	0.1485153286	0.1238293421	67309
WBP4	blue	blue	0.1356605409	0.0469917620	0.1722903993	0.0706504215	780486
EPSTI1	blue	blue	0.1429681405	0.0860494572	0.1297535530	0.0797985556	30353
DNAJC15	blue	blue	0.1489370614	0.0237257809	0.2561791214	0.0919903881	129236
SERP2	blue	blue	0.0239463328	0.0056589461	0.0547809768	-0 00177825	
NUFIP1	blue	blue	0.0849160466	0.0397076343	0.1054355500	0.0212507886	052518
TPT1	blue	blue	-0 11940818	-0 48664884	0.4609698099	-0 13308709	
ESD	blue	blue	0.1507493126	-0 00587669	0.2807501924	0.0641094399	853604
ITM2B	blue	blue	0.2177875176	-0 01829945	0.4023154719	0.2335693013	02713
EBPL	blue	blue	0.1173058274	0.0094910440	0.2085797176	0.0882321923	475831
COMMD6	blue	blue	0.0383874758	-0 16408388	0.3324114083	-0 04812139	
NDFIP2	blue	blue	0.0774968901	0.0313840571	0.0610600520	0.0514677318	034613

DNAJC3	blue	blue	0.2490299744;0.1024378827;0.2245940042;0.209384424989263
IPO5	blue	blue	0.1024818897;0.0393341776;0.0801150067;0.0724380680124479
ITGBL1	blue	blue	0.1370692017;0.0653464950;0.1348018644;0.0828588056435101
TNFSF13E	blue	blue	0.1331884117;0.0445053642;0.1377254436;0.144804408720341
COL4A2	blue	blue	0.1614489079;0.0306333779;0.1612305676;0.0239960963347285
CUL4A	blue	blue	0.1066967293;0.0937942223;0.0644599261;0.0385016619945411
LAMP1	blue	blue	0.1964809829;0.0296823272;0.2271145297;0.193915739665326
APEX1	blue	blue	0.1872175053;0.1046360588;0.1718693759;0.0778908901150821
RNASE4	blue	blue	0.0929798058;-0 00269908 0.1823987745;0.0942561202551915
ANG	blue	blue	0.0736771328;-0 02362084 0.1762243177;0.0568671417567981
HNRNPC	blue	blue	0.1481323938;0.0623685560;0.1491600509;0.0756071930999015
TRDC	blue	blue	0.0561645509;0.0108097071;0.0846263001;0.0599191042391063
DAD1	blue	blue	0.2007345491;-0 05904614 0.4496473029;0.0728462974250328
ABHD4	blue	blue	0.1097190712;0.0495830454;0.1057913584;0.0657891973610933
MRPL52	blue	blue	0.1454873783;0.0271119600;0.2558017183;0.0185263477755601
LRP10	blue	blue	0.2200878493;0.0738076066;0.2423290454;0.141704711688124
PRMT5	blue	blue	0.0930506729;0.0232220018;0.1165768241;0.0237977141753032
PSMB5	blue	blue	0.1607481009;-0 02586181 0.3020391284;0.0763560432061877
C14orf119	blue	blue	0.1248378797;0.0311862630;0.1643218977;0.0216472376293545
EFS	blue	blue	0.1709644874;0.1411999684;0.0989651059;0.0952259955827812
DHRS4	blue	blue	0.1033142878;0.0620769701;0.1131332048;0.0486834201501439
DHRS4L2	blue	blue	0.1527270490;0.0498244071;0.2091393363;0.0800147408555478
PSME1	blue	blue	0.1328969352;-0 01462324 0.2945399243;0.0654922088388838
PSME2	blue	blue	0.1386870093;-0 04995281 0.3269430430;0.0519959402985307
NEDD8	blue	blue	0.1451182886;-0 02592016 0.3255794829;0.0519346560904932
SPTSSA	blue	blue	0.0544956463;-0 013538 0.0927820092;0.0173635135172952
EAPP	blue	blue	0.1483588281;0.0468541662;0.2020042273;0.0884675713827767
SNX6	blue	blue	0.1603781453;0.0233801695;0.2332957802;0.0671054581077807
FAM177A	blue	blue	0.1463665486;0.0731735329;0.1747118138;0.077049729463452
NFKBIA	blue	blue	0.2256100040;0.1662877443;0.1837347082;0.104141715178855
FKBP3	blue	blue	0.1891563377;0.0771514639;0.2219530738;0.0910287000028178
RPS29	blue	blue	-0 01696671 -0 3027676 0.4311294527;-0 07208864
RPL36AL	blue	blue	0.1263547465;-0 05050575 0.3316116554;0.0217246052331583
MGAT2	blue	blue	0.1251634939;0.0474627939;0.1247842019;0.0954816922076988
DNAAF2	blue	blue	0.0808319928;0.0245273204;0.1132741294;0.0358864251889205
ATL1	blue	blue	0.1018468166;0.0298492626;0.1254986168;0.0539659019577553
TMX1	blue	blue	0.2285808869;0.0812045305;0.2495015147;0.160783692292832
RTRAF	blue	blue	0.1346640119;-0 00984981 0.2594110317;0.0412625849348023
PSMC6	blue	blue	0.1692507813;0.0861936331;0.1410227129;0.11667167549356
FERMT2	blue	blue	0.2575596309;0.1756289590;0.2063551367;0.157634715817645
BMP4	brown	brown	0.1209408804;0.1158946175;0.0194249172;0.205646837996067
CNIH1	blue	blue	0.1628038957;0.0457955446;0.2120212273;0.11954386678709
GMFB	blue	blue	0.1098805287;0.0860684922;0.0711178784;0.0651994620984664
MAPK1IP	blue	blue	0.1648830605;0.1238498787;0.0889006512;0.119192220962927
LGALS3	blue	blue	0.1169251028;-0 1009345 0.3365125002;-0 03156016
NAA30	blue	blue	0.0772791851;0.0437619518;0.0566361270;0.0388985327295143
PSMA3	blue	blue	0.1847763908;0.0670641064;0.2028068556;0.123070240761739
TIMM9	blue	blue	0.0130152530;-0 05023503 0.0768269119;-0 00907459

L3HYPDH	blue	blue	0.1128630802	0.0860237685	0.0835020961	0.0470995920323625
DHRS7	blue	blue	0.1004626329	0.0010073315	0.1592375312	0.0647034760490123
CHURC1	blue	blue	0.1471694115	0.0233624324	0.2249082512	0.0653880992521203
MPP5	blue	blue	0.1009187008	0.1045102075	0.0175385531	0.0469739418540325
ATP6V1D	blue	blue	0.0818609983	0.0327195168	0.1112066584	0.0327301324631599
VTI1B	blue	blue	0.1266247651	0.0299402574	0.1596947874	0.0755213658833894
ERH	blue	blue	0.1561664395	-0 01073129	0.2900007815	0.0654123676086541
ZFYVE1	blue	blue	0.0930769386	0.0835793354	0.0641299226	0.0574417623032497
ACOT2	blue	blue	0.0531793300	-0 01166598	0.1165627703	0.0279319077995634
PNMA1	blue	blue	0.1589016764	0.0712388356	0.1623212916	0.0481346288020906
FAM161B	blue	blue	0.0400652494	0.0215542218	0.0302951807	0.0455791148078343
NPC2	blue	blue	0.1343131420	-0 07375153	0.3563336986	0.124487441265643
ISCA2	blue	blue	0.0754414508	0.0079958524	0.1637236164	0.00738334585295069
LTBP2	brown	brown	0.3146649919	0.2357458527	0.1312341539	0.493820256450287
TMED10	blue	blue	0.2509763909	0.0681297719	0.3102993447	0.203575866711082
ERG28	blue	blue	0.1054839946	0.0086294588	0.1464827567	0.0442696482116461
POMT2	blue	blue	0.1235871877	0.0787692681	0.0886588083	0.0757225391467075
AHSA1	blue	blue	0.1218158002	0.0414600024	0.1415339649	0.0527227844417534
SLIRP	blue	blue	0.0889391782	-0 04934687	0.2476932914	0.0214293257843113
SNW1	blue	blue	0.1376322953	0.0579629724	0.1896110662	0.0443926785320919
SEL1L	blue	blue	0.1623329724	0.0844420381	0.1309022968	0.139122366215654
PSMC1	blue	blue	0.1255007054	-0 00844485	0.2150593859	0.0660329028474367
CALM1	blue	blue	0.1609752302	-0 02450747	0.2930572364	0.0914413383619855
DGLUCY	blue	blue	0.1000624217	0.0801672483	0.0767691576	0.0761098124026923
NDUFB1	blue	blue	0.1157729312	-0 0036361	0.2223576768	0.0322901757597035
CPSF2	blue	blue	0.1234701800	0.0920787475	0.0671227507	0.07335557111488
TMEM251	blue	blue	0.0463952852	0.0287168523	0.0527061945	0.0303204900859901
IFI27L1	blue	blue	0.0986211731	0.0454917576	0.1135903963	0.0292363782905394
IFI27	blue	blue	0.0701670054	-0 10210868	0.2840152766	0.0258625416145495
IFI27L2	blue	blue	0.1413356434	-0 03587744	0.3084899948	0.0805944552368935
GLRX5	blue	blue	0.1108450083	0.0153393512	0.1666550690	0.0257350075523922
EML1	blue	blue	0.0727775860	0.0528649907	0.0572831601	0.00967228941252957
HSP90AA	blue	blue	0.2821325444	0.0276691928	0.3959357378	0.180516702593074
RCOR1	blue	blue	0.1073068645	0.0789407427	0.0716240571	0.0597371349901243
EIF5	blue	blue	0.1837419760	0.0551037669	0.2332250795	0.0919503870063545
BAG5	blue	blue	0.0868193027	0.0768847613	0.0563437005	0.0733169945181999
APOPT1	blue	blue	0.1164270367	0.0566221967	0.1399684657	0.047576130959789
ATP5MPL	blue	blue	0.1553987235	0.0139242201	0.2726066859	0.0689184853681256
SIVA1	blue	blue	0.0926772160	-0 05582714	0.2594993704	0.0136971993679256
CRIP1	blue	blue	0.0621433654	-0 04048217	0.1556275963	-0 01826483
TMEM121	blue	blue	0.1035345253	0.0148895403	0.1514575973	0.0551958038530551
NDN	blue	blue	0.1297145267	-0 02326676	0.2559727824	0.0986589583884038
SNRPN	blue	blue	0.1070496240	0.0119980713	0.1582437162	0.0735801666077757
NSMCE3	blue	blue	0.1026767455	0.0312900693	0.1175559859	0.0839896454334593
TJP1	blue	blue	0.1693069747	0.1219072800	0.1136067301	0.117786292493899
KLF13	blue	blue	0.0870951497	0.0348947259	0.0640072365	0.0182374759024721
EMC7	blue	blue	0.2157479607	0.0047084959	0.3496171570	0.165707577935043
EMC4	blue	blue	0.1949052393	0.0755982952	0.2136892893	0.124254554792103

NOP10	blue	blue	0.1756737457' 0.0308091977' 0.2599867367' 0.0920562904948556
THBS1	brown	brown	0.2543989570' 0.1606925996' 0.1306054047' 0.341933482364415
EIF2AK4	blue	blue	0.1232709689' 0.0846679048' 0.1149371525' 0.0807163879018786
SRP14	blue	blue	0.0858027708' -0 15437813 0.3794259639' 0.0263397562907133
RMDN3	blue	blue	0.1236344280' 0.0686577774' 0.0997384455' 0.0803641068842661
DNAJC17	blue	blue	0.0672698017' 0.0508963879' 0.0601261217' 0.0236474915821928
VPS18	blue	blue	0.1049126826' 0.0422466671' 0.0903291015' 0.0853228120701045
RTF1	blue	blue	0.1613485457' 0.0938698839' 0.1698660426' 0.0587439172020488
PDIA3	blue	blue	0.2774740367' 0.0682304788' 0.3119395651' 0.239970159708444
SERF2	blue	blue	-0 00067337 -0 31616829 0.4510606488' -0 0463503
MFAP1	blue	blue	0.0593101407' 0.0065374030' 0.1106841708' 0.0102453487872129
CASC4	blue	blue	0.0544176840' -0 01750691 0.0642453577' 0.0837015153219143
B2M	blue	blue	-0 04564303 -0 35045691 0.3837454748' 0.063817217643256
TRIM69	blue	blue	0.1133774359' 0.0478160251' 0.1139881263' 0.0901567333403706
DUT	blue	blue	0.1992900809' 0.0913218429' 0.2523704467' 0.11091902674069
FBN1	blue	blue	0.3849904646' 0.1443579601' 0.3557822217' 0.446763711873526
EID1	blue	blue	0.2228986554' 0.0343330454' 0.3411197258' 0.130680686679817
FGF7	blue	blue	0.2521984795' 0.1657029131' 0.2067092610' 0.160334863315413
SPPL2A	blue	blue	0.2484685779' 0.1656465777' 0.1445893638' 0.255502288668402
GLDN	blue	blue	0.2549757563' 0.1288350089' 0.2169930776' 0.262757741347267
TMOD3	blue	blue	0.1758743730' 0.0938328512' 0.1405283490' 0.115225790272486
RSL24D1	blue	blue	0.0872596205' -0 01706774 0.1942023865' -0 00142668
CCPG1	blue	blue	0.2678503814' 0.1680763348' 0.1902251796' 0.240782391429648
MNS1	blue	blue	0.0761928248' 0.0505367121' 0.0876956618' 0.0403450037080566
GTF2A2	blue	blue	0.0874212422' -0 00416528 0.1913203479' 0.000474487476372394
ANXA2	blue	blue	0.2509985114' 0.0038804496' 0.3892337596' 0.116942619758579
RPS27L	blue	blue	0.0816166791' -0 02319171 0.2354922955' -0 04067351
RAB8B	blue	blue	0.1296575411' 0.0233415995' 0.1443212853' 0.0717106110385234
CA12	blue	blue	0.0404353749' -0 01889621 0.0685309962' 0.0133874453257118
PPIB	blue	blue	0.2935551032' 0.0005516618' 0.4965089002' 0.158970873340242
SPG21	blue	blue	0.0828213943' 0.0351576166' 0.0842480246' 0.00606919543089983
HACD3	blue	blue	0.2611391237' 0.0870891681' 0.2958363442' 0.194753121266269
DENND4A	blue	blue	0.1153454883' 0.1120721777' 0.0287044431' 0.135516108716427
SNAPC5	blue	blue	0.0528036057' -0 01293466 0.1056402446' 0.00535600699829587
RPL4	blue	blue	0.0812392938' -0 15961601 0.2916834109' 0.0164479799573955
RPLP1	blue	blue	-0 07879801 -0 41917214 0.4553709219' -0 09918197
LARP6	blue	blue	0.0849982544' 0.0108713792' 0.1350344512' 0.0209233778411212
PKM	blue	blue	0.1161519395' -0 07426726 0.2224260287' -0 04015613
NPTN	blue	blue	0.1838266213' 0.1127248788' 0.1070131583' 0.144026388247117
LOXL1	blue	blue	0.1534004743' 0.0468090114' 0.1638480274' 0.07441009238089
UBL7	blue	blue	0.0813764323' 0.0255486314' 0.0746797988' 0.0909932463092288
COX5A	blue	blue	0.1285485132' -0 00274508 0.2283388599' 0.0549685532341236
COMMD4	blue	blue	0.1413754051' 0.1227466145' 0.1122020260' 0.0659497530716919
IMP3	blue	blue	0.1334425728' 0.0435650329' 0.1825272101' 0.0637821671366113
RCN2	blue	blue	0.2234467741' 0.0699635105' 0.2769741639' 0.14838288826569
TSPAN3	blue	blue	0.1323059425' 0.0375570851' 0.1081364157' 0.170356412752347
PSMA4	blue	blue	0.1973843957' 0.0538479040' 0.2478722082' 0.113881852976861
MORF4L1	blue	blue	0.1864421479' -0 01796385 0.3031024033' 0.116385738748174

TMED3	blue	blue	0.1729715105;0.0497087233;0.1992171596;0.0723569704758879
MTHFS	blue	blue	0.1412579908;0.0714671205;0.1605210876;0.0538886073331554
MESD	blue	blue	0.2039787947;0.1146314983;0.1842461234;0.14880240154032
TLNRD1	blue	blue	0.1302086954;0.0879539881;0.0649903952;0.0665357429207553
RPS17	blue	blue	0.1031760313; -0 04848834 0.2280821857;0.033089352364976
BTBD1	blue	blue	0.0760345773;0.0137023463;0.0802523864;0.0426413761951021
NMB	blue	blue	0.0822893571; -0 07907775 0.2337469092;0.0716922744318089
SEC11A	blue	blue	0.2408835370;0.0575572807;0.3713369544;0.128192308530803
MRPL46	blue	blue	0.0646367126;0.0367965185;0.0864860045;0.0226186429411001
ABHD2	blue	blue	0.0850337473;0.0086868795;0.0975432517;0.0406290223739028
PEX11A	blue	blue	0.0660614610;0.0444201097;0.0484682896;0.0574803168398506
CIB1	blue	blue	0.0865875864; -0 01058333 0.1544895440;0.0367850260528387
FES	blue	blue	0.0454517187;0.0393795945;0.0407861590;0.0592380840376536
HDDC3	blue	blue	0.0751394324;0.0728616926;0.0656987401;0.0153952616041234
ALDH1A3	brown	brown	0.2076923815;0.0761429834;0.1419977854;0.311218911390963
SELENOS	blue	blue	0.2752168287;0.1660317472;0.2238984957;0.159697769768833
PCSK6	blue	blue	0.0785820174;0.0259989160;0.0843821318;0.0888946974436968
POLR3K	blue	blue	0.0794050083;0.0015534349;0.1401689686;0.011665164896734
SNRNP25	blue	blue	0.0388562520; -0 02557146 0.1212151079;0.0419019605158551
MPG	blue	blue	0.1304150294;0.0436102753;0.1800031031;0.0634686549682311
MRPL28	blue	blue	0.0911073954;0.0242317489;0.1540643345;0.0156283215819799
NME4	blue	blue	0.1471576489;0.0299980486;0.2091308556;0.0863037312016551
METTL26	blue	blue	0.1307225196;0.0343221162;0.1784969396;0.0726030308443067
STUB1	blue	blue	0.1634988794;0.0262070547;0.1945934553;0.128593166309133
JMJD8	blue	blue	0.1066194150;0.0418420952;0.1000359857;0.0595176906478377
WDR24	blue	blue	0.1049197778;0.0470545899;0.0981655141;0.0637731774361385
METRNL	blue	blue	0.1599675157;0.0698169001;0.1831748425;0.160942449060725
FAM173A	blue	blue	0.1600335776;0.1097253197;0.1541837712;0.0861645681437832
UBE2I	blue	blue	0.1733013367;0.1125567395;0.1543452143;0.0813164301777599
TSR3	blue	blue	0.0737121230;0.0045255058;0.1484344510;0.00931956778307054
NME3	blue	blue	0.2216952993;0.2116887987;0.1344640797;0.12928008883299
MRPS34	blue	blue	0.1595603635;0.0460494865;0.1991511417;0.101515842768295
MSRB1	blue	blue	0.0608536030; -0 00150364 0.0963906122;0.0067068997758033
NDUFB10	blue	blue	0.1574412685; -0 02226428 0.3175260633;0.0593463912170349
RPS2	blue	blue	0.0337395385; -0 22912962 0.4352501645; -0 12527349
TBL3	blue	blue	0.1333271829;0.0503971711;0.1250186551;0.0715464895055135
GFER	blue	blue	0.0723441827;0.0261854955;0.1080185441;0.0248331345421772
NTHL1	blue	blue	0.1263685467;0.0256893497;0.1675566110;0.0748458088702083
TRAF7	blue	blue	0.1116430034;0.0855340067;0.0639474763;0.0740698933715498
ECI1	blue	blue	0.1040966307; -0 03828961 0.2338379521;0.0125601260969642
KCTD5	blue	blue	0.0696383561;0.0253311797;0.0467130675;0.0761328124567761
ELOB	blue	blue	0.1028497166; -0 14662724 0.4064582734;0.0170792853526244
FLYWCH	blue	blue	0.0882459903;0.0321367986;0.1370493597;0.0404593231668937
TNFRSF12	blue	blue	0.1229630314;0.0306894854;0.0934217014; -0 01884039
HCFC1R1	blue	blue	0.0670689189; -0 00273135 0.1232677491; -0 00769895
IL32	blue	blue	0.0853191656; -0 02269465 0.1436811947; -0 00486211
NAA60	blue	blue	0.1143198902;0.0528895396;0.0925401422;0.0802245847935316
HMOX2	blue	blue	0.1202889731; -0 00909325 0.2091178149;0.0617404137542481

NUDT16L	blue	blue	0.1239982099;0.0592465725;0.1363478356;0.054564481665062
EMP2	blue	blue	0.2525198961;0.1626006151;0.2306651536;0.205109224538277
NUBP1	blue	blue	0.0567178058; -0 00655964 0.1144326118;0.0240360623262314
DEXI	blue	blue	0.1189136122;0.0268598673;0.1467326151;0.0594967398473006
SOCS1	blue	blue	0.1068383738;0.0793660737;0.0930274843;0.0353502771819515
RSL1D1	blue	blue	0.0664642712; -0 0277784 0.1606174456;0.0279099882265425
GSPT1	blue	blue	0.1020449418;0.0220577906;0.1306438988;0.0357358425947129
NTAN1	blue	blue	0.0205046470;0.0030489261;0.0742381011;0.00231596668933294
RPS15A	blue	blue	-0 07245904 -0 36946024 0.4636230855; -0 12380012
ARL6IP1	blue	blue	0.1435420465 0.0380188066;0.1641116924;0.117786985274092
GDE1	blue	blue	0.1045171843 -0 00075753 0.1313728333;0.10929884012887
VPS35L	blue	blue	0.0332474274; -0 02313652 0.0416946089;0.0373510437487404
TMEM159	blue	blue	0.0372101400; -0 01228715 0.0733826924;0.0317604207798527
METTTL9	blue	blue	0.1083689551; -0 03057595 0.1980262642;0.0666276331556266
NDUFAB1	blue	blue	0.1011398311; -0 03906484 0.2535513918;0.050997736798703
NSMCE1	blue	blue	0.1162959071 0.0525545395;0.1383021465;0.0634409084065552
NUPR1	blue	blue	0.1130731302; -0 024679 0.2527361668;0.0352267028018364
TUFM	blue	blue	0.1820238929;0.0708183796;0.2152164574;0.068386359289147
MVP	blue	blue	0.1531608732;0.0512205464;0.2135282174;0.0908297328263447
TMEM219	blue	blue	0.1050319974; -0 03604902 0.1974840677;0.0893857069527706
ALDOA	blue	blue	0.1182094319 0.0433741634;0.1427150992;0.0931625207186661
CD2BP2	blue	blue	0.1090337864 0.0169794956;0.1904701120;0.043103759404744
DCTPP1	blue	blue	0.0449023491;0.0036750441;0.0856728116;0.00827697343344813
SEPHS2	blue	blue	0.1110878705;0.0337891596;0.1346368779;0.026743108960858
BCL7C	blue	blue	0.0495220497; -0 07648525 0.1586519565;0.0321443549908111
VKORC1	blue	blue	0.1664202705;0.0086916513;0.2668357233;0.0755568565976395
PYCARD	blue	blue	0.0756883526; -0 01668091 0.1590939693; -0 03179306
C16orf87	blue	blue	0.0379850973;0.0244338050;0.0388752732; -0 003339
DNAJA2	blue	blue	0.1374024737;0.0763901676;0.1088416563;0.0766260630131734
ZNF423	blue	blue	0.1517732577;0.1088977120;0.0929889253;0.0957262258663004
TENT4B	blue	blue	0.1025206179;0.0681555252;0.0643182652;0.0505719266361232
HNRNPA1	blue	blue	0.0451661997; -0 00899123 0.0976620370;0.00536095475477132
CRNDE	blue	blue	0.0783342640;0.0332697830;0.0895990099;0.00947535991372993
MMP2	blue	blue	0.2696747101;0.0762967890;0.2569174407;0.185838267043551
CES1	blue	blue	0.1615796574;0.0455796833;0.1737470927;0.181677818281382
MT2A	blue	blue	0.0437500716; -0 07736919 0.1930633120; -0 07611575
MT1E	blue	blue	0.1632380792;0.0107397976;0.2718141250;0.0277770321473597
MT1M	blue	blue	0.0984545241; -0 00717816 0.2099899591;0.037012808264807
MT1F	blue	blue	0.0147102983; -0 05172345 0.1142971333; -0 07787793
MT1X	blue	blue	0.1168068124 0.0421994923;0.1459198618;0.0177288741120811
ARL2BP	blue	blue	0.0890280225; -0 0003191 0.1346095168;0.0310232396064185
CCDC102	blue	blue	0.1044745955;0.0334361787;0.1346974651;0.0345926447899818
CFAP20	blue	blue	0.1307038156;0.0638728447;0.1103453888;0.0618332403231084
CDH11	blue	blue	0.4228070267;0.3204911865;0.1830463604;0.331051764174836
CKLF	blue	blue	0.1191068359;0.0086091826;0.2079952187;0.0350690764964221
CMTM3	blue	blue	0.2130845424;0.0895941639;0.1617894636;0.173007402552709
FAM96B	blue	blue	0.1101898450;0.0010888480;0.2264074421;0.0464809380251127
TRADD	blue	blue	0.0944104540;0.0202489730;0.1161684674;0.0383146802146588

TMEM208	blue	blue	0.1281033516;0.0557994304;0.1801922569;0.0801412426601876
TPPP3	blue	blue	0.0436889539;0.0019338992;0.0686165883;0.020358612597306
HSD11B2	blue	blue	0.1094296043;0.0709887979;0.1047722729;0.061819378351831
ATP6V0D	blue	blue	0.1511078107;0.0491830459;0.1873885802;0.0847715664775284
THAP11	blue	blue	0.0913122979;0.0255916562;0.1270706904;0.0111460615924723
PSMB10	blue	blue	0.1470168275;0.0354687005;0.2053960573;0.0693774211984459
IL34	blue	blue	0.1866530464;0.0426077133;0.2333644495;0.112507558923386
HP	blue	blue	0.1161006504;0.0133009092;0.1631316262;0.159233600460548
PSMD7	blue	blue	0.2162572984;0.0906642946;0.2492014590;0.0879914406086769
ZFP1	blue	blue	0.0688802071;0.0315894002;0.0637069253;0.0627653098448867
GABARA1	blue	blue	0.1505863141;-0.06447819;0.3536903791;0.0417863009346113
GCSH	blue	blue	0.1394686403;0.0231769981;0.2252783186;0.0945933655946191
HSBP1	blue	blue	0.1369384291;0.0012843774;0.2415520883;0.0534234818309312
MBTPS1	blue	blue	0.1651134434;0.1464306382;0.0702857066;0.14733551127824
COTL1	blue	blue	0.1174161110;0.0135258900;0.1430224926;0.0215541340553574
USP10	blue	blue	0.1090597658;0.0639122011;0.0940689638;0.0723629100638324
EMC8	blue	blue	0.1578340817;0.0878872523;0.1341988769;0.0847208988816801
COX4I1	blue	blue	0.1495454085;-0.07108377;0.3769164700;0.0331750045807981
FBXO31	blue	blue	0.1083570707;0.0923293803;0.0481214244;0.0442851771551157
CYBA	blue	blue	0.1843337630;-0.08066868;0.4303280252;0.124372485019385
APRT	blue	blue	0.0900290118;-0.01308722;0.2411715253;-0.00301174
TRAPPC2	blue	blue	0.0815986701;-0.01780787;0.1952581322;-0.01297675
CBFA2T3	blue	blue	0.0594350430;0.0597299437;0.0160079702;0.0381004052259445
RPL13	blue	blue	-0.10515715;-0.43513333;0.4414830237;-0.16455336
RFLNB	blue	blue	0.1062724744;0.0648561573;0.0947971654;0.106560222061159
NXN	blue	blue	0.0980337335;0.0360714616;0.0923345977;-0.00490996
TIMM22	blue	blue	0.0749688266;0.0458902888;0.0717053802;0.0315173007392059
YWHAE	blue	blue	0.2034809896;0.0403519768;0.2450492689;0.12999636815156
PITPNA-A	blue	blue	0.0943971278;0.0587793041;0.1095794707;0.0709863876093735
PITPNA	blue	blue	0.1367577072;0.0557075973;0.1380216768;0.0626482738087556
SERPINF1	blue	blue	0.2474160715;0.0147201082;0.4030156378;0.207743589721919
TSR1	blue	blue	0.0945151011;0.0606088115;0.0704807834;0.0613151193637585
TAX1BP3	blue	blue	0.0983882579;0.0051758910;0.1397924811;0.0261464348618805
EMC6	blue	blue	0.0915257351;0.0175165385;0.1477290108;0.060361645257569
ITGAE	blue	blue	0.0802367365;0.0318396213;0.1179223143;0.047395375960467
CXCL16	blue	blue	0.1334174319;0.0189988389;0.1652205540;0.118153398942721
PSMB6	blue	blue	0.1455498956;-0.03828503;0.3181938497;0.0516729362524093
GP1BA	blue	blue	0.0874554241;0.0223039532;0.0906265210;0.108422330632283
SLC25A11	blue	blue	0.1136338578;0.0517092771;0.1349395994;0.0376502119501255
RNF167	blue	blue	0.1146691153;0.0570386983;0.1251409565;0.110021425157673
PFN1	blue	blue	0.1981675027;-0.02202484;0.3441868951;0.031218369594093
RABEP1	blue	blue	0.0546912493;0.03423355072;0.0564110122;0.0174651499150586
C1QBP	blue	blue	0.0762485071;-0.0385479;0.1782593736;-0.00413163
DERL2	blue	blue	0.1807661895;0.0824229130;0.1822385169;0.120307342416042
TXNDC17	blue	blue	0.1511393329;0.0276554441;0.2150237408;0.0571739044741534
GABARA1	blue	blue	0.0862276746;-0.01455325;0.1909100826;0.0292955492702484
EIF5A	blue	blue	0.1309559720;0.0307458718;0.1647105037;0.0365326334532295
TMEM256	blue	blue	0.1288886739;0.0174924435;0.2257499326;0.054550666293408

CHRNA1	blue	blue	0.1125425200	0.0582169485	0.1165171874	0.0568354229	589372
TNFSF12	blue	blue	0.0978418839	-0 00813875	0.1987257217	0.0705903596	627251
EIF4A1	blue	blue	0.2157315757	0.1332645870	0.1584755799	0.1016047357	86566
CD68	blue	blue	0.0332551963	-0 04254724	0.1120046059	0.0132834879	798147
NAA38	blue	blue	0.1728338774	0.0146767516	0.2751082852	0.1158467238	90549
TRAPPC1	blue	blue	0.0842168462	-0 05939606	0.2592905832	0.0070426432	7237545
RPL26	blue	blue	-0 04381911	-0 33645753	0.5025520794	-0 16113016	
STX8	blue	blue	0.0255901116	-0 04733557	0.1014099877	0.0046996320	5390474
TMEM220	blue	blue	0.1059103576	0.0600264325	0.1097212213	0.0897051738	678832
ELAC2	blue	blue	0.0553794177	0.0138406811	0.0533499080	0.0149344741	184514
PMP22	blue	blue	0.2676647584	0.1518687482	0.2166431087	0.1851659720	17492
ZSWIM7	blue	blue	0.0877599954	0.1033079262	0.0595889686	0.0259067762	34627
UBB	blue	blue	0.1355340552	-0 14219068	0.4419955676	0.0216540708	494198
LRRC75A	blue	blue	0.0351409806	-0 02325069	0.1177854188	-0 00066878	
COPS3	blue	blue	0.0713384572	0.0158580806	0.1027115446	0.0393939102	138009
RASD1	blue	blue	0.1351249610	0.0859298256	0.1226661070	0.0796716003	560369
PEMT	blue	blue	0.1462131873	0.0585595106	0.1612652546	0.1159443302	32529
ALKBH5	blue	blue	0.1239401128	0.0484689931	0.1007353050	0.0936899749	325181
TMEM11	blue	blue	0.0593677704	-0 00915624	0.1311574074	0.0316806225	489486
SDF2	blue	blue	0.1477696160	0.0468969849	0.2044721348	0.0535576022	894155
RAB34	blue	blue	0.1692849526	0.0547732435	0.1705767803	0.0947592716	876542
RPL23A	blue	blue	0.0635965559	-0 24275306	0.5130416110	-0 07433585	
ABHD15	blue	blue	0.1197856726	0.0620893753	0.1099219613	0.0936663017	628167
CPD	blue	blue	0.2540681845	0.1365836979	0.1892553116	0.2275062973	77103
COPRS	blue	blue	0.0676954284	-0 07245986	0.1785426725	0.0443555260	684404
TMEM98	blue	blue	0.1250800071	-0 01184728	0.2211234911	0.1011518975	19018
CCL2	blue	blue	0.1013329041	0.0314799134	0.1404631425	0.0106714868	255151
ZNHIT3	blue	blue	0.0996334382	0.0462283655	0.1292125129	0.0274702021	1600021
DDX52	blue	blue	0.1652293069	0.1168296079	0.0982447015	0.0980885154	57998
MRPL45	blue	blue	0.0668788313	0.0296990606	0.0779723831	0.0274769795	365375
CISD3	blue	blue	0.1042856095	0.0368821239	0.1293098324	0.0466454168	57737
PSMB3	blue	blue	0.1800575238	-0 00390006	0.3343999641	0.0949501823	959843
RPL23	blue	blue	0.0831610509	-0 17925695	0.4054747330	-0 01379995	
RPL19	blue	blue	-0 01800063	-0 36165809	0.5151441248	-0 10063803	
MIEN1	blue	blue	0.0678501429	0.0187228847	0.0964569301	0.0302866214	126933
PSMD3	blue	blue	0.1249528527	0.0443878346	0.1427529439	0.0454389349	293502
RARA-AS	blue	blue	0.0974189351	0.0600629872	0.0909129680	0.0358204527	842162
IGFBP4	blue	blue	0.2351557966	-0 02717678	0.2990275238	0.0740097987	199147
KRT10	blue	blue	0.1673875078	-0 00392601	0.3149929328	0.0821464711	1341207
TMEM99	blue	blue	0.0585979059	-0 0004934	0.0838567767	0.0336366103	258769
EIF1	blue	blue	0.1527308678	-0 05649584	0.4136504003	0.0567260668	382113
NT5C3B	blue	blue	0.0799003553	0.0326511831	0.1046902317	0.0638521783	613656
CNP	blue	blue	0.1092380867	0.0027589188	0.1487563861	0.0777402906	442228
NKIRAS2	blue	blue	0.1072977392	0.1004294136	0.0572503038	0.0305766558	729087
RAB5C	blue	blue	0.1004628212	-0 03475366	0.1847364614	0.0624735313	029891
CAVIN1	blue	blue	0.2735124615	0.0927291352	0.2332518935	0.1877161365	48694
RETREG3	brown	brown	0.1328955706	0.0917440137	0.0387277676	0.1708721323	04869
TUBG1	blue	blue	0.0528391553	0.0159112387	0.0643953754	-0 02115995	

RAMP2	blue	blue	0.0624428601	-0.01173578	0.1317992361	0.0394112281734423
VPS25	blue	blue	0.1012978359	0.0529667812	0.1285973462	0.0676583211422518
COA3	blue	blue	0.0893855710	0.0018969244	0.1714233062	0.0040452442073947
PSME3	blue	blue	0.1235822292	0.0377679127	0.1053672797	0.0735371886831656
RPL27	blue	blue	0.0418035930	-0.2392963	0.4319463788	-0.04710303
IFI35	blue	blue	0.1564092449	0.0615418324	0.2071488284	0.108188474885285
TMEM101	blue	blue	0.1020045132	0.0410678466	0.1150159703	0.0419062058931545
LSM12	blue	blue	0.1082153546	0.0630133061	0.0733463376	0.0851124452851495
GRN	blue	blue	0.1904772550	0.0582823592	0.2430953375	0.153178053917513
COPZ2	blue	blue	0.1062637419	0.0013486257	0.2006721282	0.0619148249377614
ATP5MC1	blue	blue	0.1338878398	0.0043913058	0.2532718309	0.0425360355215245
SNF8	blue	blue	0.1204751691	0.0659020744	0.1522806182	0.0237897223174029
PHB	blue	blue	0.0753790430	-0.04663784	0.1723320586	0.03034121523672
NGFR	blue	blue	0.2656081473	0.1377391793	0.1781297923	0.296736637799765
MRPL27	blue	blue	0.1391496664	0.0419456433	0.2169761015	0.0501389151211415
LRRC59	blue	blue	0.1419516155	0.0060929820	0.1830681723	0.0672126396916468
TOB1	blue	blue	0.1601860426	0.1032108986	0.1241114539	0.140169996277153
NME1	blue	blue	0.0887591718	-0.01982363	0.1645332361	-0.00800813
UTP18	blue	blue	0.0758415389	0.0451944199	0.0696617525	0.0335001391917553
MRPS23	blue	blue	0.0788780765	0.0134768162	0.1332684359	0.049014027541695
VEZF1	blue	blue	0.1636777411	0.1293382066	0.0906624596	0.0996200709554065
SUPT4H1	blue	blue	0.1497580027	0.0350403987	0.1959050927	0.0660535906069595
RAD51C	blue	blue	0.0494399740	0.0235446478	0.0757355797	-0.02961547
SKA2	blue	blue	0.0405967918	-0.03617849	0.1145865010	0.0188401414147256
CLTC	blue	blue	0.1984852465	0.0829337176	0.1628776399	0.168888539322912
CYB561	blue	blue	0.1475062114	0.0998113615	0.0943609385	0.06261463735251
TACO1	blue	blue	0.0708203033	0.0348870842	0.0830170033	0.0197660932124396
CCDC47	blue	blue	0.1579418175	0.0568682974	0.1769512846	0.10817492620075
PSMC5	blue	blue	0.1648155060	0.0291858205	0.2375994935	0.0555257472349137
ICAM2	blue	blue	0.1486472980	0.0330794600	0.2189433642	0.0831617141756643
PSMD12	blue	blue	0.1177117496	0.0780201208	0.1324849347	0.0564358302261317
NOL11	blue	blue	0.1133585403	0.1102992671	0.0485768032	0.0576137439592956
AMZ2	blue	blue	0.1342893738	0.0817835365	0.1176499585	0.0973446206678381
SSTR2	blue	blue	0.1200475300	0.1044516041	0.0699869609	0.0969379800623548
FAM104A	blue	blue	0.0962419355	0.0458022447	0.1072874793	0.0707929393397703
RPL38	blue	blue	-0.01011619	-0.22286851	0.2926711256	-0.07865193
MRPL58	blue	blue	0.1337841978	0.0406637447	0.1842277485	0.0910061297842825
ATP5PD	blue	blue	0.1588082479	-0.00225925	0.2833669653	0.0816034981374058
SLC16A5	blue	blue	0.0917797543	0.0897566937	0.0496000770	0.0702944970891711
JPT1	blue	blue	0.0637425521	-0.01830856	0.1374070247	0.0115862670366841
SUMO2	blue	blue	0.1565901245	-0.03003328	0.3432167394	0.0253281466200512
MRPS7	blue	blue	0.0781481929	0.0056726749	0.1378278161	0.0173723297434328
GALK1	blue	blue	0.1321981860	0.0550162631	0.1523672994	0.0572980931438878
H3F3B	blue	blue	0.2706464516	0.0882545328	0.3916055369	0.0560928921046934
TEN1	blue	blue	0.0478275448	-6.6433E-06	0.1143112027	0.00286733677605728
SRP68	blue	blue	0.1165312164	0.0409434705	0.1198075656	0.06530689243562
CYGB	brown	brown	0.0823902097	0.0442755866	0.0052549557	0.212638535363188
MXRA7	blue	blue	0.1529814531	0.0497433360	0.1496047826	0.143387704683692

METTTL23	blue	blue	0.1170727362;0.0269735062;0.1815508011;0.0309882574949618
MFSD11	blue	blue	0.1109843487;0.0721365462;0.0786146775;0.0843502935021255
SEPT9	blue	blue	0.1675658694;0.0254315461;0.1795019733;0.130179835844891
SOCS3	blue	blue	0.2698691508;0.2265824127;0.2041888972;0.126964678387369
TIMP2	blue	blue	0.1761448556;0.0148223239;0.2100506085;0.161805369836029
LGALS3B	blue	blue	0.2512562071;0.0374374759;0.3412848196;0.23867776305786
CANT1	blue	blue	0.1522125747;0.0651546831;0.1335461347;0.0844109372413965
C1QTNF1	blue	blue	0.2216508935;0.0921356991;0.1838934429;0.250358844527107
EIF4A3	blue	blue	0.1613826491;0.0387347666;0.2291732739;0.0772446303710002
NDUFAF8	blue	blue	0.1032584437;0.0286032205;0.1653888129;0.00961193399777197
SLC38A10	blue	blue	0.1965736960;0.1179485958;0.1485388298;0.169578394781788
ACTG1	blue	blue	0.2472260113;-0.05971986;0.3819014513;0.100405803152014
MRPL12	blue	blue	0.1037640942;0.0134403802;0.1613792712;0.00902226576642085
P4HB	blue	blue	0.2213482580;0.0390140345;0.2431361767;0.186033569331689
ALYREF	blue	blue	0.1209790405;0.0585490279;0.1120163607;0.0814770088873662
ANAPC11	blue	blue	0.1046095198;-0.09860644;0.3429421837;0.00443719758007954
NPB	blue	blue	0.0758762862;0.0262711765;0.0954075447;0.0539612645169585
PCYT2	blue	blue	0.0628785107;0.0332225735;0.0520305119;0.0193384441224169
CENPX	blue	blue	0.0787290140;0.0512901900;0.1120150272;0.000498004685981821
DCXR	blue	blue	0.1585933150;0.0500965080;0.2035502290;0.125718628126572
OGFOD3	blue	blue	0.1163878536;0.0511441391;0.1083761446;0.0878920356246238
WDR45B	blue	blue	0.0919204735;0.0405441095;0.0695938426;0.0857813370364636
FN3KRP	blue	blue	0.0530385251;0.0307227048;0.0713431533;0.0252368934030645
COLEC12	blue	blue	0.0775466451;0.0151273286;0.1049971625;0.0396307941926849
MYL12A	blue	blue	0.1731093569;-0.05790873;0.3685890536;0.0430538207886839
MYL12B	blue	blue	0.1306268846;-0.09624144;0.3596603666;0.0698014764638408
PTPRM	brown	brown	0.1974357395;0.1756531006;0.0909692523;0.233127752660818
NDUFV2	blue	blue	0.1566235680;0.0215213597;0.2448782852;0.0830076485673985
TWSG1	blue	blue	0.1273280224;0.0399538533;0.1006150459;0.127430946947233
RALBP1	blue	blue	0.1218535248;0.0207809635;0.1783437200;0.0508674474021906
VAPA	blue	blue	0.1827474245;0.1090545676;0.1414355086;0.10101283640143
NAPG	blue	blue	0.1052598921;0.0851083410;0.0708001553;0.0760663664595655
IMPA2	blue	blue	0.0330583640;0.0093070183;0.1033254632;0.0216230398483235
PSMG2	blue	blue	0.1561606803;0.0614338935;0.1919968677;0.0612840323940463
FAM210A	blue	blue	0.1104334771;0.0949485553;0.0791903083;0.0620780538586386
SNRPD1	blue	blue	0.0967894064;-0.03359596;0.2359424466;0.00984573895385076
TTC39C	blue	blue	0.0989477505;0.0625437767;0.0843184725;0.0498690516503316
SLC39A6	blue	blue	0.2114766361;0.0518442116;0.2466416968;0.167637491004474
TPGS2	blue	blue	0.0590466162;0.0153488027;0.0849992986;0.00187608720581565
ATP5F1A	blue	blue	0.2109764477;0.0137798597;0.3253264871;0.178992455124855
IER3IP1	blue	blue	0.0779220063;-0.00606831;0.1413801697;0.0329063380780629
C18orf32	blue	blue	0.0930291196;0.0544506866;0.0805031538;0.0442984589070669
RPL17	blue	blue	0.0790229265;-0.1047779;0.3064338559;-0.01261745
ACAA2	blue	blue	0.1222878147;-0.02166169;0.2250069220;0.0590125960360859
TXNL1	blue	blue	0.1302072277;0.0021779443;0.2471236707;0.0132569578389843
NARS	blue	blue	0.1488155347;0.0448807534;0.1684608077;0.0745416356001347
LMAN1	blue	blue	0.2704065327;0.1422366688;0.2455602176;0.153842508496849
DSEL	blue	blue	0.1443153415;0.1017907565;0.1140565956;0.0644488277865004

CYB5A	blue	blue	0.0944030754	0.0031190210	0.1934372881	0.0288186825347558
TXNL4A	blue	blue	0.0480429929	-0 0218653	0.1303360275	-0 02863576
NRSN2	blue	blue	0.1378690679	0.0677011932	0.1116932699	0.125340359213069
PSMF1	blue	blue	0.0860484890	-0 02790288	0.1644303432	0.0666529392679115
FKBP1A	blue	blue	0.1089144313	-0 02662712	0.1955070975	0.0182326507273846
SNRPB	blue	blue	0.1264539288	0.0177289568	0.1825721018	0.0254869384267212
IDH3B	blue	blue	0.1207570734	0.0832957073	0.1236452502	0.0501657273411383
CPXM1	blue	blue	0.2438429490	0.1432135736	0.2047646618	0.205162365683779
PTPRA	blue	blue	0.1895171836	0.0917478159	0.1631599880	0.174642103202707
MRPS26	blue	blue	0.1433800169	0.0638661547	0.1836710611	0.0367616522222229
DDRGL1	blue	blue	0.1373262445	0.0468718032	0.1958690525	0.0863430774530152
C20orf27	blue	blue	0.0887908476	0.0328571272	0.1013763023	0.0524658746706697
PRNP	blue	blue	0.1322452149	0.0282121676	0.1300138908	0.116473677403295
TMEM230	blue	blue	0.1048162271	-0 04488342	0.2306901180	0.0679242134933508
BMP2	blue	blue	0.0954624531	0.0328470994	0.0662956382	0.112086077903661
TMX4	blue	blue	0.1517778110	0.0551020948	0.1465922239	0.102258992612791
MKKS	blue	blue	0.1081251155	0.0530541606	0.1097081629	0.0620059241698955
SLX4IP	blue	blue	0.1187734906	0.1135507080	0.0378074954	0.0709695580430278
SNRPB2	blue	blue	0.1786562576	0.0462812960	0.2435681124	0.0890095174421478
DSTN	blue	blue	0.1373075792	-0 07704775	0.3101735763	0.0734420482493153
RRBP1	blue	blue	0.3598261553	0.2730661671	0.2070036071	0.276033978769391
SEC23B	blue	blue	0.0638423975	0.0149592666	0.0709244750	0.0391300698738365
SMIM26	blue	blue	0.1871792207	0.0698665827	0.2342084613	0.0687329664794422
DTD1	blue	blue	0.0979127953	0.0361797822	0.1283323749	0.0589532195866112
SLC24A3	blue	blue	0.0877402851	0.0392503628	0.0851846374	0.0724951899553794
NAA20	blue	blue	0.0583331102	-0 04822348	0.1930425341	0.00422725309680779
XRN2	blue	blue	0.1658241322	0.0528805346	0.2085730822	0.102107243362277
NXT1	blue	blue	0.1040131258	0.0619093174	0.1116449193	0.0501303880981312
CST3	blue	blue	0.0428531809	-0 18039806	0.3187090980	-0 04235146
APMAP	blue	blue	0.1756846481	0.0825920032	0.1500160824	0.144716613022146
ABHD12	blue	blue	0.0557109114	0.0111694249	0.0860688972	0.0512451934320012
POFUT1	blue	blue	0.1332367826	0.0571194651	0.1037739516	0.0841140309178722
COMMD7	blue	blue	0.1011113282	0.0350745592	0.1138545550	0.0332313547264898
MAPRE1	blue	blue	0.0958108414	0.0163190235	0.1177807225	0.0935934962217903
CHMP4B	blue	blue	0.0681891437	0.0032898184	0.0922193901	0.057537484600666
RALY	blue	blue	0.1066536748	0.0191298656	0.1562436777	0.0342437149113679
EIF2S2	blue	blue	0.1801783001	0.0686458477	0.2303236999	0.101603539334895
DYNLRB1	blue	blue	0.1145910786	-0 01784684	0.2233425172	0.0230689556219207
PIGU	blue	blue	0.0836097268	0.0070562237	0.1019932248	0.0664686041805918
EDEM2	blue	blue	0.1333530893	0.0539266612	0.1310618428	0.120894243235902
PROCR	blue	blue	0.0867204779	0.0096832454	0.1455253524	0.0755242152451302
MMP24OS	blue	blue	0.1249716776	0.0625066040	0.1043823158	0.0949813813126597
EIF6	blue	blue	0.0809980343	0.0245791184	0.1386511697	0.0341747733823724
ROMO1	blue	blue	0.0879007055	-0 0551985	0.2374942279	0.0218199581946609
SCAND1	blue	blue	0.1806238400	0.0617184478	0.2011952547	0.103040053672526
MYL9	blue	blue	0.0898769249	-0 09098188	0.2504699654	-0 01647645
RAB5IF	blue	blue	0.1208008405	0.0250787040	0.1993914074	0.0183468372949948
SAMHD1	blue	blue	0.1356472504	0.0543486980	0.1113886449	0.087930454553741

RPN2	blue	blue	0.3199118734;0.0954000129;0.3391036987;0.262746019534034
MANBAL	blue	blue	0.1747751214;0.0780931969;0.1583785688;0.114353041484454
TGM2	blue	blue	0.0999541095;0.0049663615;0.1000262224;0.00964448504287693
LBP	blue	blue	0.2033101710;0.0097947373;0.2268497417;0.106579105814691
TOP1	blue	blue	0.1640096252;0.0651422370;0.1802957969;0.144653673574752
SERINC3	blue	blue	0.2455868941;0.1468413474;0.1867589875;0.180537827954291
YWHAB	blue	blue	0.2391451476;0.0721799393;0.2338860433;0.184960192132811
SLPI	blue	blue	0.1368135974;-0.01029353;0.2617737974;0.157200162587735
PIGT	blue	blue	0.1755354395;0.0326257336;0.2287191481;0.0979174350510746
WFDC2	blue	blue	0.0733331436;-0.03742898;0.1708297956;0.0624628555975486
PLTP	blue	blue	0.1237885186;0.0659981523;0.1343983226;0.0120089701782743
SLC2A10	brown	brown	0.1934495623;0.1283781818;0.1093489426;0.298970302913161
STAU1	blue	blue	0.0610239598;-0.01301516;0.0912550650;0.00687789000992361
ZFAS1	blue	blue	0.0479010358;-0.0998512;0.2607432370;-0.09334041
CEBPB	blue	blue	0.2767524856;0.1833174543;0.2072494357;0.116788321590998
DPM1	blue	blue	0.1038272876;0.0584221413;0.0741692731;0.061743501810119
RTF2	blue	blue	0.0954482019;0.0050168160;0.1608751457;0.0437251705080235
CTSZ	blue	blue	0.1402409726;-0.01122427;0.2296961733;0.123618885906294
ATP5F1E	blue	blue	0.0424931524;-0.02144341;0.3836789668;-0.02244157
PSMA7	blue	blue	0.2027067498;-0.05004378;0.4004924796;0.0525387599248592
ADRM1	blue	blue	0.1461655525;0.0644054763;0.1680148240;0.0659197748841548
RPS21	blue	blue	0.1027985149;-0.15842736;0.4262928757;0.00127490540418712
PPDPF	blue	blue	0.0813342406;-0.10804268;0.3370249897;-0.00998833
ARFRP1	blue	blue	0.0662021258;0.0442057854;0.0595108187;0.0272349458123124
TPGS1	blue	blue	0.1051421122;0.0409990500;0.1381667729;0.0548577059470087
BSG	blue	blue	0.1741777498;0.0141529631;0.2131886561;0.116104787801773
CFD	blue	blue	0.1015706486;-0.20085714;0.4890937646;0.177209504938781
POLR2E	blue	blue	0.0937414806;0.0398918573;0.1041459358;0.0430738715371321
GPX4	blue	blue	0.1487329778;-0.03113838;0.3448712489;0.0254941164693838
ATP5F1D	blue	blue	0.0511467488;-0.15431393;0.3253595408;-0.01275056
C19orf24	blue	blue	0.0607305296;-0.00758197;0.1208719021;-0.02277612
NDUFS7	blue	blue	0.1241991396;0.0276974259;0.2051929054;0.0324621258933238
GAMT	blue	blue	0.0700005464;0.0299367730;0.0937602038;0.0336576910101218
RPS15	blue	blue	0.0027570945;-0.33914266;0.5344674135;-0.09548234
MEX3D	blue	blue	0.1260619873;0.0600734439;0.0932988622;0.0992814713739279
UQCR11	blue	blue	0.0946933883;-0.12898555;0.3763073737;0.0266896277053555
ABHD17A	blue	blue	0.1520591770;0.0855255968;0.1683878225;0.0710588022955652
MOB3A	blue	blue	0.1171991665;0.0382924934;0.1257373601;0.0903555885764867
OAZ1	blue	blue	0.0812807135;-0.10358097;0.2975621254;0.0551489572269293
LSM7	blue	blue	0.0678972622;-0.03747364;0.1851645613;-0.03489533
TIMM13	blue	blue	0.0932182620;-0.05220061;0.2507646604;0.0325416462532582
LMNB2	blue	blue	0.0760557521;0.0137058124;0.0789569464;0.000340822048210283
SGTA	blue	blue	0.1265602142;0.0788724952;0.0903758426;0.0749684371136628
THOP1	blue	blue	0.0600555441;0.0369974198;0.0490856492;0.0156759673637488
PIP5K1C	blue	blue	0.1254996214;0.0934792318;0.0752239047;0.0569522253080649
MRPL54	blue	blue	0.0116381459;-0.1105263;0.1924954237;-0.0437441
DAPK3	blue	blue	0.0874886175;0.0582078067;0.0436222344;0.0336739278709234
EEF2	blue	blue	0.1632169521;-0.03248173;0.2995516798;0.0446652644641932

MAP2K2	blue	blue	0.1521140776;0.0413416790;0.1883948062;0.0783163054979937
MYDGF	blue	blue	0.1699951681 -0 00127595 0.3209522841;0.0676229570082708
RPL36	blue	blue	0.0644424928; -0 22015712 0.4272893985; -0 01338935
C19orf70	blue	blue	0.1470464956;0.0048488083;0.2640894756;0.0566510533484872
NDUFA11	blue	blue	0.1303567102; -0 04789688 0.3124008192;0.0460132434547715
CLPP	blue	blue	0.1069043158;0.0049537860;0.1785884202;0.0392898395043663
ALKBH7	blue	blue	0.1145964105; -0 05606115 0.3138429717;0.0160470336161646
PET100	blue	blue	0.1344162456;0.0556350135;0.1299975078;0.0761942844135857
CERS4	blue	blue	0.0689798479;0.0373797759;0.0674120105;0.041248598543617
CD320	blue	blue	0.0806303208;0.0440590812;0.0713922285;0.0388950053407879
NDUFA7	blue	blue	0.0522067875; -0 0299482 0.1396437470; -0 00578448
RPS28	blue	blue	-0 01098421 -0 31694883 0.4336406152; -0 03280971
ANGPTL4	blue	blue	0.3788145715;0.3064592484;0.2471503203;0.262800998466872
HNRNPM	blue	blue	0.1755756660;0.1038722971;0.1617821875;0.0911295310366399
UBL5	blue	blue	0.1364207953; -0 06141095 0.3342967129;0.0265377962314138
PIN1	blue	blue	0.1101829406;0.0344206133;0.1728223388;0.0350094993618146
EIF3G	blue	blue	0.1444827554 -0 01183017 0.2796894121;0.0380782402884701
S1PR2	blue	blue	0.1079117056;0.0273751036;0.1143028506;0.0422549158427048
MRPL4	blue	blue	0.1074516484;0.0598731286;0.1372876619;0.0211579094699251
ICAM1	blue	blue	0.1158083367;0.0277029317;0.1204908415;0.0765915778848842
ICAM3	blue	blue	0.0581459983;0.0016300679;0.1142302148;0.0165865412565462
SLC44A2	brown	brown	0.2275906499;0.1708108328;0.1230136812;0.298157902065029
DNM2	blue	blue	0.1159810777;0.0903741451;0.0706866931;0.0707410753775828
TMED1	blue	blue	0.1560791120;0.0462252503;0.2502391690;0.0714989291054714
TMEM205	blue	blue	0.1126869204;0.0545938840;0.0932350215;0.0450509160847925
ECSIT	blue	blue	0.0748938020;0.0274170672;0.0879099646;0.0420829417084372
ELOF1	blue	blue	0.0600451481 0.0354309970;0.0790249197; -0 00630321
WDR83	blue	blue	0.0714694011;0.0564179651;0.0836085332;0.00846468524530571
WDR83OS	blue	blue	0.1933472719;0.0145298632;0.3072621022;0.122324232881694
TRIR	blue	blue	0.1086367498; -0 02518808 0.2255322682;0.0201798012325048
ASNA1	blue	blue	0.0923794485; -0 00683965 0.1958202115;0.00656723319752877
JUNB	blue	blue	0.1862394033;0.0942279037;0.2450963107;0.0338873685634853
PRDX2	blue	blue	0.0888798757; -0 12240023 0.3465392666;0.0183820874767618
DNASE2	blue	blue	0.1303767511;0.0390543181;0.1775483920;0.0700535320330962
FARSA	blue	blue	0.0981517370;0.0033148197;0.1262560573;0.042847387488277
CALR	blue	blue	0.3229551625;0.1012606389;0.3401665451;0.268934122019946
GADD45C	blue	blue	0.1268551134; -0 03732271 0.2941276555;0.0425353786835656
IER2	blue	blue	0.0732864485 0.0410714144;0.0851624072; -0 01499106
C19orf53	blue	blue	0.0716714204; -0 12288453 0.3125362522;0.00123210671868538
PODNL1	blue	blue	0.0551926754;0.0157453711;0.0818345449;0.0279441322042294
RFX1	blue	blue	0.1040737672;0.0667347337;0.0584764570;0.0824177444674714
DNAJB1	blue	blue	0.1119676167;0.0499402055;0.1037184489;0.0728013557510752
TECR	blue	blue	0.1916487937;0.0983016994;0.2091144515;0.129188259660872
NDUFB7	blue	blue	0.2121707308 -0 00431941 0.3629748580;0.0844275087244168
SYDE1	blue	blue	0.1275386261;0.0736040962;0.0903768714;0.0840297031756968
ILVBL	blue	blue	0.1234288261;0.0635850799;0.1558631422;0.0659801677562659
TPM4	blue	blue	0.1508868153;0.0229395856;0.1757990633;0.0374122917969182
RAB8A	blue	blue	0.0927785837;0.0040435048;0.1241046774;0.0490510743942763

FAM32A	blue	blue	0.0334983238	-0	0299706	0.1218189762	-0	00665394	
OCEL1	blue	blue	0.1170382471	0.0681765224	0.1094550427	0.0461445526	0.1619		
NR2F6	blue	blue	0.1662296170	0.0748009294	0.1604051241	0.1079774091	0.171166		
MRPL34	blue	blue	0.1046967059	0.0460008201	0.1424622230	0.0349830573	0.304267		
BST2	blue	blue	0.0957430781	-0	05892656	0.2282110396	0.1113556707	0.4746	
MVB12A	blue	blue	0.1018762238	0.0732202579	0.1077658254	0.0778352636	0.74433		
PGLS	blue	blue	0.0967854917	-0	05274966	0.2310698623	0.0257108188	0.327152	
COLGALT1	blue	blue	0.1702505863	0.0766719674	0.1143624555	0.0829327861	0.408988		
RPL18A	blue	blue	0.0040173031	-0	29545391	0.4621442166	-0	12291709	
CCDC124	blue	blue	0.1455858673	0.0252291371	0.2045851471	0.0464846043	0.424702		
PIK3R2	blue	blue	0.0987763617	0.0558005333	0.0687842470	0.0747737087	0.578988		
LSM4	blue	blue	0.0820035727	-0	03198931	0.1548681593	0.0404491263	0.273264	
SSBP4	blue	blue	0.1246219954	0.0961224300	0.0768800916	0.0644906890	0.944772		
FKBP8	blue	blue	0.0874357196	-0	04446534	0.1963274961	0.0590514234	0.183566	
UBA52	blue	blue	0.0147049758	-0	23218691	0.3812955922	-0	04786003	
COPE	blue	blue	0.1765428230	0.0395270388	0.2350558771	0.0722246131	0.237038		
DDX49	blue	blue	0.0714619679	0.0046769936	0.1149413193	0.0040058479	0.7818387		
TMEM161	blue	blue	0.1256865169	0.0863609013	0.1065772553	0.0655548659	0.91662		
RFXANK	blue	blue	0.1388033214	0.0949677786	0.1229353883	0.0507940153	0.623989		
NDUFA13	blue	blue	0.1712264143	-0	09595868	0.4326391335	0.0622869978	0.802378	
UQCRCF	blue	blue	0.1306718479	0.0287826528	0.2160648728	0.0725685113	0.741512		
POP4	blue	blue	0.1403469345	0.0405104801	0.1758664494	0.0603157858	0.28549		
PDCD5	blue	blue	0.1740282499	0.0324165206	0.2564720287	0.0537519703	0.543385		
LRP3	blue	blue	0.1452048310	0.0342227527	0.1586189638	0.1450821296	0.5004		
PEPD	blue	blue	0.1383580250	0.0467404322	0.1729472816	0.0916924528	0.79515		
FXR1	blue	blue	0.0956618570	0.0192032669	0.1546687096	0.0393487805	0.152981		
TMEM147	blue	blue	0.1863602217	0.0393370084	0.2408772263	0.1273413330	0.97531		
COX6B1	blue	blue	0.0657843003	-0	14396822	0.3325959076	-0	02502246	
PSENEN	blue	blue	0.1294788428	-0	00618305	0.2469041860	0.1019352301	0.191527	
POLR2I	blue	blue	0.1041471657	-0	00975729	0.2375427291	0.0290040269	0.81861	
TBCB	blue	blue	0.1673090821	0.0776322124	0.1908914604	0.0844521170	0.759794		
CAPNS1	blue	blue	0.0954923363	-0	03014455	0.1829037055	0.0968720449	0.796237	
COX7A1	blue	blue	0.0646307078	-0	04856711	0.1846756310	0.0319899557	0.709619	
PPP1R14A	blue	blue	0.1499341800	0.0326067038	0.2074346623	0.1150527589	0.26079		
YIF1B	blue	blue	0.1404741102	0.1104666373	0.0764161060	0.0805056005	0.5082332		
PSMD8	blue	blue	0.1198058743	-0	02431364	0.2525542937	0.0262273861	0.664033	
EIF3K	blue	blue	0.1378590264	-0	06751769	0.3874992418	0.0220404753	0.850755	
ECH1	blue	blue	0.1406582279	-0	03538985	0.2985599810	0.0649954806	0.195383	
MRPS12	blue	blue	0.0325261298	-0	01383642	0.1077153059	-0	01441697	
GMFG	blue	blue	0.0688274380	-0	05934874	0.2497751244	0.0199655714	0.630419	
MED29	blue	blue	0.1242883047	0.0646522172	0.1060448057	0.0895283716	0.4856		
ZFP36	blue	blue	0.1631007154	0.1167690988	0.1480228792	0.0352978223	0.716319		
RPS16	blue	blue	-0	00282446	-0	28796279	0.4079759055	-0	07242422
TIMM50	blue	blue	0.0733673594	0.0049655390	0.0848661639	0.0628734454	0.4039946		
FBL	blue	blue	0.0661896910	0.0114250262	0.0801516526	0.0271987497	0.761215		
PSMC4	blue	blue	0.1271643244	0.0317028753	0.1604535815	0.1103544311	0.2591		
SERTAD1	blue	blue	0.0968936362	0.0373754584	0.1038895539	0.0426907390	0.560879		
BLVRB	blue	blue	0.0505659182	-0	00743913	0.1843011588	-0	02761837	

SHKBP1	blue	blue	0.0501695010	-0 0097837	0.0858586504	0.000295188393417812
AXL	blue	blue	0.1370843000	0.0209383836	0.1667828104	0.0548936106119159
TGFB1	blue	blue	0.0777399597	-0 02134356	0.1398586775	-0 0288688
RPS19	blue	blue	-0 0375962	-0 34918917	0.4688710435	-0 15469361
RABAC1	blue	blue	0.2438665966	0.0460529302	0.3607808520	0.141268649417971
ETHE1	blue	blue	0.0703613323	-0 01132362	0.1678352537	-0 00380599
IRGQ	blue	blue	0.1040049859	0.0547911145	0.0829746653	0.0667150119106549
ZNF428	blue	blue	0.0994853267	0.0317860703	0.1534353295	0.0304932839952123
APOE	blue	blue	0.0899316327	-0 24232329	0.4234930245	0.124241882439501
APOC1	blue	blue	0.0447469131	-0 09258992	0.2057709504	0.0213741482247395
CLPTM1	blue	blue	0.1488097277	0.0637800616	0.1627102026	0.110825724277626
MARK4	blue	blue	0.0906524841	0.0453456525	0.0884318033	0.0284532121403403
TRAPPC6	blue	blue	0.0448015817	-0 03960667	0.1274125516	0.0207779538856456
FOSB	blue	blue	0.1188428418	0.0996775012	0.1494321186	0.00311840377408596
RTN2	blue	blue	0.0203557902	-0 01273961	0.0750091217	-0 01557295
SNRPD2	blue	blue	0.1412002829	-0 00975889	0.2470730837	0.0440600277374381
CCDC61	blue	blue	0.0638069033	0.0496566439	0.0569536701	0.065959366277911
CALM3	blue	blue	0.0836688348	-0 04947883	0.1710289628	0.0366419729688971
SLC1A5	blue	blue	0.2291326819	0.0644905797	0.2422352382	0.174971410519895
AP2S1	blue	blue	0.1505700733	-0 01332276	0.2836132376	0.0443327728104038
TMEM160	blue	blue	0.1180957300	0.0384747684	0.1514609245	0.0363009633185283
NAPA	blue	blue	0.0998910749	0.0589756719	0.0867267484	0.0436170722369925
NOP53	blue	blue	0.0660307257	-0 12106779	0.2903419847	0.0199667947488667
SELENOW	blue	blue	0.0794933794	-0 00777582	0.1558552618	0.0442807261148584
EMP3	blue	blue	0.1423561097	-0 00785528	0.2361261873	0.0112002442621176
KDELRL1	blue	blue	0.2443855917	0.1075074035	0.2327477315	0.171406519421238
RPL18	blue	blue	0.0524664393	-0 24143332	0.4582132107	-0 03679728
PPP1R15A	blue	blue	0.1742260460	0.1274852988	0.1665194130	0.0373324374286761
NUCB1	blue	blue	0.2403689695	0.1227154306	0.1933959840	0.212448359041004
BAX	blue	blue	0.1322077711	0.0610870796	0.1525664547	0.0396043961874154
FTL	blue	blue	-0 27412669	-0 49045393	0.2450718078	-0 23518535
RUVBL2	blue	blue	0.0439417129	-0 03367326	0.1080096686	-0 00798978
PIH1D1	blue	blue	0.0845050598	0.0277498953	0.1072991955	0.0563309464250355
RPL13A	blue	blue	0.0349734363	-0 26851951	0.4646069610	-0 0449602
RPS11	blue	blue	0.0066838397	-0 30819074	0.4519968485	-0 06298672
FCGRT	blue	blue	0.2121955570	-0 03213805	0.3796369185	0.259579164462134
RCN3	blue	blue	0.1367517814	0.0484352041	0.1417806468	0.0573306973174009
NOSIP	blue	blue	0.1213617726	0.0764064394	0.1325998541	0.046025424715196
RRAS	blue	blue	0.0442048888	-0 06509818	0.1658157693	0.03016822261227
PRMT1	blue	blue	0.1501735678	0.0591127642	0.1716905340	0.0864585828536683
MED25	blue	blue	0.1353924162	0.1150557831	0.0695145907	0.0946850380547631
AKT1S1	blue	blue	0.0856084127	0.0247716451	0.1033301287	0.0469450591727831
NR1H2	blue	blue	0.0728795156	0.0337470597	0.0851555830	0.0402397785249914
JOSD2	blue	blue	0.1145375362	0.0271910818	0.1513691742	0.0559114238326748
ETFB	blue	blue	0.1734287727	0.0174119931	0.2670775785	0.104826508170231
MYADM	blue	blue	0.1654802392	0.0604097854	0.1482720963	0.0692921109723996
NDUFA3	blue	blue	0.0614091357	-0 05308277	0.1892807686	0.0300964133810147
TFPT	blue	blue	0.0424517267	0.0130961757	0.0847692320	0.0023667593871293

LENG1	blue	blue	0.0867295295	0.0300484182	0.1109173119	0.0421068328330384
MBOAT7	blue	blue	0.0778908403	0.0148523839	0.0724726840	0.047321935680869
TSEN34	blue	blue	0.1158065512	0.0464009195	0.1486808111	0.081125930410688
RPS9	blue	blue	0.0420828137	-0 25625268	0.4666455023	-0 03727359
HSPBP1	blue	blue	0.0628092728	0.0049920994	0.0824508839	0.00335122528110671
RPL28	blue	blue	-0 06491627	-0 38892703	0.4628236107	-0 15523634
ISOC2	blue	blue	0.0381792488	-0 03744784	0.1167897825	0.0150619916258639
SSC5D	blue	blue	0.0809292729	0.0707806379	0.0273797539	0.0447051340651761
ZNF581	blue	blue	0.0525807714	-0 00584315	0.1182798799	0.0268477881766059
ZNF667-A	blue	blue	0.1459317732	0.0878320391	0.1050316503	0.126992257710934
AC010642	blue	blue	0.0259914181	-0 05624412	0.1442176882	-0 02703134
RPS5	blue	blue	0.0585452361	-0 21087339	0.4727931554	-0 07250105
CHMP2A	blue	blue	0.1178791269	-0 06657449	0.2931545691	0.0425506897283375
UBE2M	blue	blue	0.1142113961	0.0582744095	0.1230520284	0.0421638139954825
HDHD5	blue	blue	0.0313504128	0.0103888183	0.0595664726	-0 00634491
BID	blue	blue	0.0519580408	-0 02233238	0.1323048164	-0 00733969
SLC25A1	blue	blue	0.0652588343	-0 01758079	0.0964417683	0.0253478693339983
C22orf39	blue	blue	0.0377237682	-0 02536006	0.0966088397	0.00055871141377652
MRPL40	blue	blue	0.1523137830	0.0103037198	0.2742362833	0.0484420129330092
UFD1	blue	blue	0.0758623164	-0 00227712	0.1712842936	0.00885946819179247
TXNRD2	blue	blue	0.0503532216	0.0322539316	0.0583581201	0.0181181056418669
COMT	blue	blue	0.1885587917	0.0103093412	0.2613217141	0.182422800350651
TANGO2	blue	blue	0.0479260398	0.0327655150	0.0311469626	0.0597339665399223
RANBP1	blue	blue	0.1068062111	0.0077524907	0.2181561036	0.0142351222125912
DGCR6L	blue	blue	0.0751922471	-0 00092623	0.1501049157	-0 006781
CRKL	blue	blue	0.1115591786	0.0354440298	0.0882017631	0.0821123719561558
UBE2L3	blue	blue	0.1252363076	0.0273886500	0.1376212604	0.0600798762352036
SDF2L1	blue	blue	0.1621025766	0.0198466388	0.2476563525	0.0892076103564014
MAPK1	blue	blue	0.1411018801	0.0850965814	0.0838723014	0.0800882351485834
BCR	blue	blue	0.1132386022	0.0824105580	0.0689470162	0.073463636162376
CHCHD10	blue	blue	0.0993317112	-0 06124902	0.2780266632	0.0500799402941762
SMARCB1	blue	blue	0.1316545085	0.0909217448	0.1088591068	0.0509984233807611
MIF	blue	blue	0.0694206455	-0 0852718	0.2879211429	-0 01835594
DDT	blue	blue	0.1394651801	-0 02059738	0.3126570109	0.0553566426013422
GGT5	blue	blue	0.2904966532	0.2189845795	0.1508160640	0.334173326887874
GUCD1	blue	blue	0.1061104764	0.0224104873	0.1172035805	0.0712950877836421
SNRPD3	blue	blue	0.1089123172	-0 00439787	0.2203608869	0.0251388567748036
HSCB	blue	blue	0.0533517910	-0 00489799	0.0999272436	0.010212111806738
XBP1	blue	blue	0.1922290646	0.0891944065	0.1677460404	0.131821773125392
EMID1	blue	blue	0.0911442216	0.0313622728	0.1062700213	0.0905148573228011
GAS2L1	blue	blue	0.0674715525	0.0518527853	0.0618449765	0.0243727615250904
ZMAT5	blue	blue	0.0754525044	0.0340882792	0.0840499180	0.0372150423761294
UQCR10	blue	blue	0.1079295082	-0 07065803	0.3587330274	-0 00087801
SELENOM	blue	blue	0.2017917879	-0 05247928	0.4072286826	0.161411484040587
PATZ1	blue	blue	0.0988113073	0.0845131411	0.0570696144	0.0540666751188865
YWHAH	blue	blue	0.0813211858	0.0218410152	0.1217334477	0.0231725661966158
RTCB	blue	blue	0.1463725325	0.0394020008	0.2085906688	0.0641332077765646
APOL3	blue	blue	0.1050175490	0.0597971749	0.1019078218	0.0685822710545973

APOL4	blue	blue	0.1663507377;0.0907023358;0.1256068313;0.142099657211448
APOL1	blue	blue	0.1971000681;0.0895402965;0.1568934098;0.183871089769932
MYH9	blue	blue	0.1584286409;0.0366508562;0.1402607541;0.0584550527478682
TXN2	blue	blue	0.1010238397;0.0245134999;0.1480982980;0.0266771274528765
EIF3D	blue	blue	0.1342140275;0.0248600486;0.1861644057;0.0438439303085201
LGALS1	blue	blue	0.1224070639; -0 19347832 0.4711650990; -0 0033222
GCAT	blue	blue	0.0427146648; -0 00515998 0.0861726823;0.0184702081751245
EIF3L	blue	blue	0.1254929917; -0 05846909 0.2614287618;0.0525836574069506
POLR2F	blue	blue	0.1180362617; -0 04738566 0.2820455589;0.0619261999260628
KDELRL3	blue	blue	0.0568944362; -0 00205905 0.0928815727;0.00000058600440423434
CBY1	blue	blue	0.0416131897;0.0085880090;0.0876768570; -0 00758388
TOMM22	blue	blue	0.0748231413 -0 03730841 0.1896195189; -0 00786527
APOBEC3	blue	blue	0.1178494000;0.0573764995;0.1205378842;0.0529354817304167
RPL3	blue	blue	0.0073961850; -0 3333208 0.4831098682; -0 05947957
SYNGR1	blue	blue	0.0828505811; -0 01543141 0.1889453329;0.0465855091796601
RPS19BP1	blue	blue	0.1378498656; -0 02318222 0.2739882252;0.0734000900868881
ST13	blue	blue	0.1471976324;0.0253038461;0.2082965235;0.0995152497652267
RBX1	blue	blue	0.0989950281; -0 0649299 0.2716994738;0.041289769384854
TOB2	blue	blue	0.2075356331;0.1460885636;0.0913422824;0.120979959788129
PMM1	blue	blue	0.1116676616;0.0673213868;0.0955724429;0.0534013440526327
XRCC6	blue	blue	0.1469133259; -0 01527191 0.2310844016;0.0728459196531149
SNU13	blue	blue	0.1099242170; -0 05018456 0.2618079420;0.035425974690843
SMDT1	blue	blue	0.0163367433; -0 08693758 0.1945229506; -0 02592526
NDUFA6	blue	blue	0.1004975879; -0 02726277 0.2382309083;0.0274626402419601
CYB5R3	blue	blue	0.1657377430; -0 00339918 0.2465690023;0.152217899009107
TSPO	blue	blue	0.1251530803; -0 10519895 0.3726234195;0.0924329292819696
SCUBE1	brown	brown	0.1226651195;0.0979131466;0.0469609865;0.280828238625262
FBLN1	blue	blue	0.1584806437;0.0120585051;0.1928630569;0.162583556256831
ATXN10	blue	blue	0.1589102471;0.0659600978;0.1624739172;0.104267215209065
CRELD2	blue	blue	0.2100050115;0.1216313842;0.1782944417;0.180433158149723
AP001347	blue	blue	0.0714723257;0.0651904766;0.0492507945;0.0213924100058344
BTG3	blue	blue	0.0799702847;0.0176978759;0.1164616399;0.019826447787031
NCAM2	blue	blue	0.2091877689;0.1419612689;0.1433356820;0.230265308830123
ATP5PF	blue	blue	0.2049081148; -0 00270933 0.3806627875;0.0982263649367277
APP	blue	blue	0.3108349233;0.1600356454;0.2376694106;0.31731046675215
SOD1	blue	blue	0.1761644875; -0 03657944 0.3711628439;0.091380509877494
IFNAR1	blue	blue	0.2329814064;0.1394832835;0.1741972032;0.193426256667042
ATP5PO	blue	blue	0.1834165908 0.0071114080 0.3454985264;0.057109767333892
MRPS6	blue	blue	0.1421196402;0.0546076097;0.1833230293;0.0560809862351464
CBR1	blue	blue	0.1745977506;0.0653654468;0.2248530068;0.0839511840481075
PIGP	blue	blue	0.0751084569;0.0428743324;0.1144987617;0.0536873161627115
PSMG1	blue	blue	0.0965374447;0.0237216673;0.1355735012;0.0352263166979455
HMG1	blue	blue	0.1969844965;0.1310583613;0.1807240799;0.0979843483578523
WRB	blue	blue	0.0966729747;0.0454535857;0.1176088059;0.0884317877919868
CSTB	blue	blue	0.0678457842; -0 05770979 0.2267248266; -0 0178152
PFKL	blue	blue	0.1360933142;0.0469629966;0.1383641796;0.103058009235917
SUMO3	blue	blue	0.0892902611; -0 04203765 0.1397969922;0.121034267008425
PTTG1IP	blue	blue	0.2299883060;0.0640890354;0.2407317219;0.204822347475289

ITGB2	blue	blue	0.1808913047;0.0499754550;0.2120954053;0.279931112889284
FAM207A	blue	blue	0.1125223362;0.0069519248;0.1638259137;0.06189696132217
COL18A1	blue	blue	0.2727332307;0.1430516932;0.2250115300;0.192716304121421
COL6A1	blue	blue	0.3192130479;0.1929316973;0.1759711909;0.147959967392876
COL6A2	blue	blue	0.3499344355;0.1647768306;0.2622788730;0.194704621352368
SPATC1L	blue	blue	0.0389699038;0.0179717559;0.0516910119; -2.9814E-05
S100B	blue	blue	0.0574207389; -0.0611242;0.2116064804; -0.00213196

Table S3. Differentially expressed genes (DEGs)

Gene name	logFC	AveExpr	t	P.Value	adj.P.Val	B	change
RPL13A	0.129931250	13 6312286	6.3768710594	1.02682852	0.0001345	9.5194722624	Up
METTL4	0.145539250	6 20282188	6.0081989130	5.03405597	0.0003297	8.0750029912	Up
NCOA1	0.276636249	9 49000663	5.6636154192	0.00000021	0.0009432	6.7515876082	Up
POGLUT1	0.236371249	7 83182788	5.5108827360	0.00000040	0.0012015	6.1746529012	Up
FOXO3	0.264195749	9 04254263	5.4824107908	0.00000045	0.0012015	6.0678189472	Up
EIF5	0.245721750	10 3624066	5.2992456102	0.00000097	0.0015279	5.3862451964	Up
DHX35	0.121411250	5 88065888	5.2879541333	0.00000101	0.0015279	5.3445634171	Up
VPS35	0.248143499	10 5525443	5.2870943280	0.00000102	0.0015279	5.3413911410	Up
TRIM44	0 2694025	9 51419975	5.2802170849	0.00000104	0.0015279	5.3160257404	Up
IL17RA	#####	10 1954396	-5 11164346	0.00000207	0.0024114	4.6990587889	Down
LOC10050	0.285318999	11 4067868	5.1002022988	0.00000216	0.0024114	4.6575274579	Up
LPIN1	0.208504250	7 14673738	5.0957120875	0.00000220	0.0024114	4.6412402455	Up
FOLR1	#####	9 08852038	-5 04051291	0.00000275	0.0026138	4.4415862965	Down
SFSWAP	0.238230249	7 99156838	5.0170755071	0.00000302	0.0026138	4.3571355542	Up
SNORD18	0.156139250	13 1144666	5.0139258259	0.00000305	0.0026138	4.3458012639	Up
DPP8	0.324492750	8 94657788	5.0032551445	0.00000319	0.0026138	4.3074284428	Up
CDC42EP	#####	10 1871841	-4 92728186	0.00000431	0.0031372	4.0354041274	Down
SET	-0 434166	11 3340738	-4 90608215	0.00000468	0.0032306	3.9598738127	Down
GLT8D2	0.134507750	6 55206963	4.8468052971	0.00000591	0.0038717	3.7495711793	Up
ZEB2	#####	7 90356713	-4 79390259	0.00000726	0.0041676	3.5630085470	Down
SLC35D2	-0 1663005	6 9948355	-4 79204588	0.00000731	0.0041676	3.5564804106	Down
ADAM17	#####	7 99877488	-4 79203879	0.00000731	0.0041676	3.5564555023	Down
GMEB1	#####	7 64576488	-4 76520326	0.00000811	0.0043399	3.4622523290	Down
HIRA	#####	6 39279813	-4 76010847	0.00000828	0.0043399	3.4443994478	Down
NVL	0.163030749	6 86507538	4.7040280495	0.00001028	0.0051023	3.2485639613	Up
NIF3L1	0.213561750	8 52432388	4.6904775509	0.00001083	0.0051023	3.2014333867	Up
DNAJC4	#####	7 37096613	-4 68880084	0.00001090	0.0051023	3.1956066884	Down
RPL3L	0.104069999	5 87667925	4.6732886847	0.00001157	0.0052288	3.1417547344	Up
DHTKD1	0.123542000	5 77620625	4.5768103532	0.00001672	0.0073054	2 809038327	Up
ZNF37BP	0 15869275	5 51690163	4.5629825269	0.00001763	0.0074506	2.7616695219	Up
CCSER2	0.176732749	6 95624538	4.5422853156	0.00001906	0.0078063	2.6909202648	Up
PIAS1	0.200771999	9 8346695	4.5033652254	0.00002208	0.0087676	2.5583758651	Up
STMN4	0.118674250	5 60535963	4.4390221724	0.00002811	0.0108330	2.3406943919	Up
NOL12	-0 3100375	8 3535045	-4 41323374	0.00003095	0.0115696	2.2539609219	Down
NDUFC1	#####	9 35427238	-4 40516289	0.00003189	0.0115696	2.2268774272	Down
USP27X	0.121615249	5 77158988	4.3987001468	0.00003267	0.0115696	2.2052113169	Up
PAPD7	0.177062249	7 97470538	4.3724535073	0.00003602	0.0121667	2.1174137541	Up
SNORD83	0.128484000	13 1055035	4.3546001801	0.00003848	0.0121667	2.0578709657	Up
TRPM6	0.125064000	6 30987925	4.3523449944	0.00003880	0.0121667	2.0503600030	Up
XDH	0.179561500	7 23705125	4.3511327606	0.00003897	0.0121667	2.0463235820	Up
SLC25A14	0 18524675	7 24094988	4.3471112951	0.00003956	0.0121667	2.0329379642	Up
TNPO3	0.204526500	8 48527525	4.3445868994	0.00003993	0.0121667	2.0245391856	Up
XPO7	0.187627749	8 51783838	4.3313505960	0.00004193	0.0123788	1.9805492231	Up
HAPLN2	0 13131775	5 89671813	4.3275848627	0.00004251	0.0123788	1.9680487711	Up
SUPT20H	0.163978499	8 13756125	4.3169946006	0.00004421	0.0125916	1.9329291521	Up
ALDH3B1	-0 256764	8 82309475	-4 29908364	0.00004722	0.0130295	1.8736505797	Down

DIDO1	0.134630500	7	818906	4.2936175685	0.000048175	0.0130295	1.8555896123	Up
BRSK2	0.11199825	5	62525063	4.2905068516	0.000048732	0.0130295	1.8453174073	Up
RFC5	-0.397627	6	3369835	-4.27580537	0.000051431	0.0132224	1.7968313587	Down
UBE2E1	#####	10	4517216	-4.26385558	0.00005373	0.0132224	1.7574951116	Down
CPM	-0.2812435	5	8902995	-4.25952799	0.00005458	0.0132224	1.7432661408	Down
WWP1	-0.4034265	8	23023625	-4.25823795	0.00005484	0.0132224	1.7390262585	Down
BOLA1	0.1061405	5	7802945	4.2509211265	0.000056331	0.0132224	1.7149933327	Up
HLA-DME	0.204372750	11	8193299	4.2464848413	0.00005725	0.0132224	1.7004341852	Up
CBX5	#####	7	71839388	-4.24569083	0.00005741	0.0132224	1.6978293661	Down
S100A4	#####	12	9010406	-4.24516079	0.00005752	0.0132224	1.6960906665	Down
ADAM11	0.194889999	6	814935	4.2390635071	0.000058821	0.0132542	1.6760994460	Up
FLNC	0.146538500	6	6815525	4.2308976996	0.00006059	0.0132542	1.6493537736	Up
TTC27	0.166822499	6	482082	4.2260221222	0.00006168	0.0132542	1.6333998012	Up
C1D	#####	8	61842488	-4.22465078	0.000061991	0.0132542	1.6289145185	Down
TBC1D2	-0.2413655	6	56037825	-4.2187576	0.00006333	0.0132542	1.6096496847	Down
RPL3	0.123272750	12	7341529	4.2140927755	0.00006441	0.0132542	1.5944121577	Up
EXOSC9	0.100866999	7	590802	4.2126843658	0.00006474	0.0132542	1.5898136660	Up
SKAP2	0.214491500	9	8342005	4.1985512136	0.00006815	0.0137372	1.5437212560	Up
SEC22B	-0.3599035	10	171634	-4.19264556	0.000069631	0.0138218	1.5244896061	Down
SLC29A3	0.145284999	8	45866675	4.1795322651	0.00007301	0.0142775	1.4818465948	Up
GLT8D1	0.177822750	8	06020338	4.1534179252	0.00008023	0.0154046	1.3971739747	Up
NFKBIA	-0.3210475	11	073164	-4.15033599	0.00008113	0.0154046	1.3872030771	Down
RPEL1	0.153741499	7	02267975	4.1321980782	0.00008660	0.0157569	1.3286163317	Up
SRP19	-0.1982045	9	15832	-4.130788	0.00008704	0.0157569	1.3240684324	Down
RAB11FIP	-0.237243	9	1372095	-4.12908372	0.00008757	0.0157569	1.3185729935	Down
ELMO2	-0.214944	8	42366125	-4.12683931	0.00008828	0.0157569	1.3113380610	Down
LOC73026	0.147103500	7	24229375	4.1245976499	0.000089001	0.0157569	1.3041144570	Up
NELFB	-0.2014685	7	62913375	-4.1189446	0.00009082	0.0158295	1.2859089115	Down
SNORD32	0.134454000	12	0819725	4.1158841895	0.00009182	0.0158295	1.2760594953	Up
CLCA1	0.1342205	6	87647075	4.1037430293	0.000095911	0.0160866	1.2370309021	Up
LOC10192	0.123272749	12	5689056	4.0965328549	0.00009841	0.0160866	1.2138879163	Up
UBQLN2	-0.268064	8	35270175	-4.09512374	0.00009891	0.0160866	1.2093680023	Down
MATN4	#####	6	04898363	-4.094285	0.00009921	0.0160866	1.2066781132	Down
KIZ	0.151758499	6	39027275	4.0935890367	0.00009945	0.0160866	1.2044463768	Up
MSN	#####	11	5641786	-4.08325792	0.00010319	0.0164215	1.1713461748	Down
NCKAP1L	-0.3643435	9	82975425	-4.08099332	0.00010403	0.0164215	1.1640976377	Down
ABCD4	0.158125500	7	40787475	4.0693015626	0.00010846	0.0169168	1.1267156421	Up
FCGR2A	0.238284999	10	0166035	4.0634733296	0.00011074	0.0170684	1.1081066689	Up
ABCB7	0.16377775	7	41153138	4.0539731222	0.00011454	0.0174499	1.0778100780	Up
LAIR1	-0.2335975	9	356727	-4.04963529	0.00011632	0.0175173	1.0639916651	Down
PCSK1N	0.117099749	6	54021488	4.0414411983	0.00011976	0.0178296	1.0379148722	Up
BCAT2	0.166863000	6	8323595	4.0342555806	0.00012285	0.0180526	1.0150754185	Up
ZNF3	0.109050499	6	056518	4.0272324843	0.00012595	0.0180526	0.9927778672	Up
KLF7	0.201719750	8	06520213	4.0262221307	0.000126401	0.0180526	0.9895721703	Up
NIT2	0.198167000	7	1946935	4.0228654842	0.00012791	0.0180526	0.9789257769	Up
RAC1	0.242499999	10	885053	4.0223418879	0.00012815	0.0180526	0.9772655856	Up
PAF1	-0.140176	7	5549695	-4.01569071	0.000131201	0.0182858	0.9561885629	Down
HNRNPU	-0.1418875	10	4268245	-4.01103672	0.00013337	0.0183001	0.9414538687	Down

TNFSF11	0	11589575	5	55191463	4.0073596416	0.00013512	0.0183001	0.9298199572	Up	
F7	-0	2274395	6	0668965	-4	0049902	0.00013625	0.0183001	0.9223269577	Down
TNFRSF21	0.252950250	6	85824213	4.0036738427	0.00013689	0.0183001	0.9181654000	Up		
SMCP	0.113332499	6	8501915	4.0006127835	0.00013837	0.0183121	0.9084915729	Up		
ZNF7	0.117020500	6	02358125	3.9947281973	0.00014128	0.0183342	0.8899080977	Up		
SMAGP	0.147435749	7	03443788	3.9945821568	0.00014135	0.0183342	0.8894471294	Up		
ACTN1	-0	2751565	9	01299425	-3	9918035	0.00014274	0.0183342	0.8806785356	Down
MSL3	0.135409249	9	55020963	3.9858120231	0.00014578	0.0183776	0.8617848221	Up		
DIS3	0	10867725	7	40663638	3.9850292083	0.00014619	0.0183776	0.8593176337	Up	
RP2	-0	2794645	8	28911875	-3	98160397	0.00014796	0.0183776	0.8485260806	Down
LASP1	#####	10	2677441	-3	97981591	0.00014889	0.0183776	0.8428949967	Down	
SRPK2	0.204189000	8	26857275	3.9775383794	0.00015009	0.0183776	0.8357248626	Up		
PYGM	0.109238500	5	629951	3.9705216436	0.00015384	0.0184295	0.8136515780	Up		
PCGF2	0.171330749	7	56908888	3.9677371900	0.00015535	0.0184295	0.8048992940	Up		
DVL1	-0	184749	6	831165	-3	96748996	0.00015549	0.0184295	0.8041223788	Down
DUS4L	0.106783000	5	90534375	3.9655506642	0.00015655	0.0184295	0.7980292745	Up		
SH3GLB2	#####	6	05158663	-3	96373713	0.00015755	0.0184295	0.7923330827	Down	
WNT1	0.114864999	5	364053	3.9525087686	0.00016388	0.0188333	0.7571034797	Up		
DMTF1	0.300179500	8	41203225	3.9424157045	0.00016977	0.0191489	0.7254919882	Up		
CHRNA2	-0	1631535	6	57332675	-3	9395231	0.00017150	0.0191489	0.7164421657	Down
BCAT1	0.161670500	7	271058	3.9362299208	0.00017348	0.0191489	0.7061444022	Up		
ECE1	-0	1542555	7	76972925	-3	93602517	0.00017361	0.0191489	0.7055043465	Down
EI24	0.172979000	8	0101165	3.9343835493	0.00017461	0.0191489	0.7003732940	Up		
EIF2D	0.147675999	8	69125675	3.9330993704	0.00017539	0.0191489	0.6963604551	Up		
NPY	0.114742749	6	14635613	3.9280857341	0.00017849	0.0193261	0.6807019771	Up		
EGFR	0	1511805	7	7441045	3.9178744441	0.00018496	0.0197367	0.6488511224	Up	
PSMD3	#####	6	66245788	-3	91736047	0.00018530	0.0197367	0.6472494095	Down	
UTP6	0.191101749	8	72599738	3.9116305190	0.00018903	0.0198160	0.6294022313	Up		
POLR2H	0	1569345	8	1536245	3.9096975131	0.00019031	0.0198160	0.6233853747	Up	
LOC10028	0	133572	7	00763025	3.9078133324	0.00019156	0.0198160	0.6175223941	Up	
LOC73236	#####	6	68011788	-3	90525542	0.00019327	0.0198160	0.6095659712	Down	
KCNC1	0.105922000	6	288065	3.9047665772	0.00019360	0.0198160	0.6080458132	Up		
DAZ4	0	1379235	6	255502	3.8904428828	0.00020348	0.0205070	0.5635594535	Up	
NENF	0.129040249	8	49271213	3.8802317540	0.00021082	0.0210843	0.5319123333	Up		
ZNF195	0.129598999	5	75349575	3.8706344587	0.00021795	0.0215033	0.5022182772	Up		
SAP130	0	16317925	7	74480638	3.8685094487	0.00021956	0.0215033	0.4956501390	Up	
GINS3	0.122594750	6	97033388	3.8680112762	0.00021994	0.0215033	0.4941106998	Up		
CYP2B7P	-0	11448	6	9991385	-3	86218421	0.00022441	0.0217785	0.4761139222	Down
DGCR2	#####	7	78290588	-3	85965997	0.00022638	0.0218078	0.4683234749	Down	
RIPK2	0.187521500	9	157526	3.8529432081	0.00023169	0.0218930	0.4476105500	Up		
MEX3D	0	10919475	5	65503488	3.8511379638	0.00023314	0.0218930	0.4420477236	Up	
LETMD1	0.137959250	8	04944913	3.8501789244	0.00023391	0.0218930	0.4390931737	Up		
PKLR	-0	2058165	6	2872315	-3	84837728	0.00023537	0.0218930	0.4335441130	Down
SGPL1	-0	195218	7	7125255	-3	84807349	0.00023562	0.0218930	0.4326086160	Down
WT1-AS	0.111001250	5	98401563	3.8452308140	0.00023794	0.0219530	0.4238571972	Up		
SLC6A12	0	12897375	6	61201613	3.8392908683	0.00024286	0.0222503	0.4055846196	Up	
RUFY3	0	326181	7	27458525	3.8334402838	0.00024780	0.0225454	0.3876055361	Up	
ORC3	0.139495749	6	65158788	3.8240862160	0.00025591	0.0229923	0.3588985359	Up		

SLC6A13	0.147211000	7	77942	3.8237221798	0.00025623	0.0229923	0.3577822906	Up
CAMKK2	-0.232674	9	330812	-3.81957141	0.00025991	0.0231639	0.3450598533	Down
LRRC23	0.161916499	6	29773625	3.8161013237	0.00026302	0.0231687	0.3344309388	Up
DNMBP	0.146258749	7	32329313	3.8144796854	0.00026449	0.0231687	0.3294660830	Up
THRA	-0.126635	6	82982475	-3.8108904	0.00026777	0.0231687	0.3184821036	Down
SLC41A3	0.140820499	8	02321425	3.8102934140	0.00026832	0.0231687	0.3166558768	Up
CCT5	0.175127250	10	2586241	3.8097645637	0.00026880	0.0231687	0.3150382456	Up
GSAP	0.218384499	9	73800875	3.8039534797	0.00027421	0.0232960	0.2972735062	Up
ERICH1	0.12701425	6	29953688	3.8026467601	0.00027544	0.0232960	0.2932813403	Up
ASTE1	0.175263000	6	5895165	3.7929543397	0.00028473	0.0239123	0.2636990631	Up
LARP4B	#####	8	54187838	-3.78677413	0.00029081	0.0239805	0.2448632220	Down
ANGPT1	0.118160749	6	07726738	3.7832419535	0.00029434	0.0239805	0.2341073744	Up
FRAT2	-0.228765	9	4999695	-3.78195593	0.00029564	0.0239805	0.2301929890	Down
PEX19	0.136297249	7	36049688	3.7818372790	0.00029576	0.0239805	0.2298318915	Up
EIF5B	0.186704749	8	56027413	3.7798252352	0.00029779	0.0239805	0.2237096122	Up
COBLL1	0.164950999	6	26936475	3.7776704834	0.00029999	0.0239805	0.2171555631	Up
EIF3H	0.159739500	10	98607	3.7770469186	0.00030063	0.0239805	0.2152593592	Up
SLC28A2	0.110425499	7	35467275	3.7756981412	0.00030202	0.0239805	0.2111585799	Up
PDE8A	0.137534249	8	05439863	3.7691915685	0.00030879	0.0242247	0.1913902588	Up
NOP16	0.141112000	7	76064275	3.7634777627	0.00031486	0.0244906	0.1740497520	Up
C6orf48	0.145381499	10	075708	3.7606772353	0.00031787	0.0244906	0.1655571635	Up
FCF1	0.125594250	5	13767238	3.7566280228	0.00032228	0.0244906	0.1532855993	Up
ITPKB	-0.160093	6	97096625	-3.74905408	0.00033069	0.0244906	0.1303562951	Down
OPA3	-0.1128925	5	1062735	-3.74891173	0.00033085	0.0244906	0.1299256488	Down
LOC10272	#####	8	07909063	-3.74750153	0.00033243	0.0244906	0.1256600393	Down
HDLBP	-0.131907	9	70669025	-3.74722789	0.00033274	0.0244906	0.1248324592	Down
ZNF573	0.129241249	5	46810513	3.7422840862	0.00033837	0.0247659	0.1098877738	Up
MFSD10	#####	6	97986988	-3.73890869	0.00034227	0.0247890	0.0996920281	Down
SRSF8	0.137230000	9	1339615	3.7348147545	0.00034705	0.0247890	0.0873343685	Up
THEG	0.118835750	7	23848738	3.7345181173	0.00034740	0.0247890	0.0864393225	Up
ACAP2	-0.2120125	9	6552955	-3.73391348	0.00034811	0.0247890	0.0846150921	Down
EBLN2	0.1546455	6	83181	3.7328500072	0.00034937	0.0247890	0.0814070303	Up
TSNAX	-0.239161	8	70539075	-3.7309192	0.00035166	0.0247890	0.0755841734	Down
ADSL	0.182325249	9	24050213	3.7303778925	0.00035231	0.0247890	0.0739520954	Up
PSMA7	0.181084749	10	0908396	3.7276609415	0.00035556	0.0247890	0.0657627557	Up
BBX	#####	8	22448913	-3.72596408	0.00035761	0.0247890	0.0606502239	Down
PAFAH1B	0.104582499	5	73071975	3.7202746469	0.00036456	0.0251377	0.0435200507	Up
TNFAIP8L	0.117871250	9	64659038	3.7171928315	0.00036838	0.0251537	0.0342486381	Up
FLT3	0.201995000	7	3503045	3.7163174529	0.00036947	0.0251537	0.0316160950	Up
SST	0.102281999	6	02435025	3.7136211722	0.00037285	0.0251791	0.0235102103	Up
GLA	0.178208249	8	92835863	3.7061600785	0.00038236	0.0256888	0.0011009876	Up
BRD7P3	0.111660749	5	83033213	3.6993574967	0.00039123	0.0260061	-0.0193032	Up
NFKB2	#####	7	60917213	-3.69835646	0.00039255	0.0260061	-0.02230358	Down
SMC1A	-0.170539	9	53403125	-3.69798884	0.00039303	0.0260061	-0.02340531	Down
OPCML	0.10798525	7	27866088	3.6922113601	0.00040076	0.0263837	-0.04070986	Up
GCHFR	0.134160499	6	75825175	3.6848696538	0.00041077	0.0268951	-0.06267241	Up
PTENP1	0.179586250	9	94868663	3.6818897996	0.00041491	0.0268951	-0.0715779	Up
POLB	0.140351499	8	7782495	3.6747557184	0.00042497	0.0271263	-0.09287819	Up

GNMT	0.126562750	5	92949438	3.6735892275	0.00042663	0.0271263	-0	09635825	Up
CAV2	0.115146249	5	56855113	3.6722184240	0.00042860	0.0271263	-0	10044687	Up
FAM216A	-0.1627945	6	6043465	-3.66508369	0.00043897	0.0276493	-0	12171002	Down
MPHOSP1	0.149478999	7	23967575	3.6504146081	0.00046106	0.0287657	-0	16533647	Up
MAN2A1	0.242480749	9	03142638	3.6501506508	0.00046147	0.0287657	-0	16612037	Up
OPHN1	-0.3487365	9	17931225	-3.64857334	0.00046391	0.0287657	-0	17080381	Down
HOXD13	0.11304625	5	60109313	3.6440598599	0.00047095	0.0289671	-0	1841977	Up
MITF	-0.141223	6	75938225	-3.63993637	0.00047748	0.0291616	-0	19642411	Down
RWDD2B	0.12242	8	377445	3.6378308721	0.00048084	0.0291616	-0	20266329	Up
GOLPH3	-0.164626	9	79971675	-3.63714662	0.00048194	0.0291616	-0	20469039	Down
VPS37C	0.1183645	8	82054725	3.6364784157	0.00048302	0.0291616	-0	20666966	Up
S100A9	-0.128223	13	7111295	-3.62672481	0.00049897	0.0298496	-0	23553169	Down
C4B_2	0.133591249	7	54984063	3.6211973575	0.00050823	0.0301426	-0	25186382	Up
MPZ	0.111226000	6	8088915	3.6210569799	0.00050847	0.0301426	-0	25227837	Up
CDH16	0.124961249	6	18034338	3.6191980052	0.00051162	0.0301929	-0	25776704	Up
CES2	0.1381365	8	906237	3.6119910067	0.00052402	0.0307571	-0	27902712	Up
IGFBP5	0.10755775	6	26755813	3.6095840944	0.00052823	0.0307571	-0	28612065	Up
ELN	0.111397500	7	105031	3.6059193752	0.00053469	0.0309298	-0	29691472	Up
CDYL	0.202463749	8	27550088	3.6007622256	0.00054391	0.0309298	-0	31209146	Up
BMP4	0.129905750	7	49608063	3.6000927624	0.00054512	0.0309298	-0	31406047	Up
ISG20L2	-0.152086	8	02212125	-3.60000325	0.00054528	0.0309298	-0	31432371	Down
KCNF1	#####	6	26790788	-3.59765743	0.00054954	0.0309298	-0	32122101	Down
TMEM258	-0.175175	10	459166	-3.5962295	0.00055214	0.0309298	-0	32541791	Down
MIR636	0.147910999	10	589154	3.5948012849	0.00055476	0.0309298	-0	32961449	Up
MIR6125	0.184383	10	4369208	3.5945732910	0.00055518	0.0309298	-0	3302843	Up
MIEF1	#####	8	37756963	-3.59432115	0.00055564	0.0309298	-0	33102502	Down
EFCC1	0.142013749	6	60236488	3.5934954752	0.00055716	0.0309298	-0	33345035	Up
HMOX1	-0.300797	8	6887865	-3.59122282	0.00056137	0.0310319	-0	340124	Down
HSPA9	0.1837915	9	315074	3.5852585483	0.00057255	0.0313852	-0	35762386	Up
TEX11	0.107302000	5	67581975	3.5824889995	0.00057782	0.0315418	-0	36574302	Up
IDO1	0.169910750	7	39408913	3.5789826423	0.00058455	0.0316062	-0	37601579	Up
FUT6	0.159229250	8	20640063	3.5781101924	0.00058623	0.0316062	-0	37857074	Up
HSPB1	#####	6	80309863	-3.57512555	0.00059204	0.0317883	-0	38730788	Down
ZNF292	-0.2875935	7	560932	-3.57360428	0.00059502	0.0318179	-0	39175918	Down
ZFAND5	-0.149906	11	0845348	-3.56935299	0.00060342	0.0319409	-0	40419151	Down
APPL1	#####	6	43357263	-3.56848898	0.00060514	0.0319409	-0	40671692	Down
HAMP	-0.216601	5	888137	-3.565027	0.00061208	0.0319409	-0	41683149	Down
ZNF654	0.190444000	6	238139	3.5647953736	0.00061255	0.0319409	-0	41750796	Up
RBM5	0.143612000	9	9631655	3.5638875512	0.00061438	0.0319409	-0	42015899	Up
ACLY	-0.156852	9	5628125	-3.56099898	0.00062026	0.0321187	-0	42859099	Down
VSIG4	0.224802249	7	55668888	3.5586468972	0.00062508	0.0321569	-0	43545336	Up
GRIP2	0.124081499	7	3137985	3.5582453988	0.00062590	0.0321569	-0	43662443	Up
DUSP6	-0.189662	11	9789698	-3.55464335	0.00063336	0.0324130	-0	44712652	Down
ARHGEF1	0.118982	6	28041125	3.5506712491	0.00064169	0.0327112	-0	45869873	Up
SOCS3	-0.152706	6	1857375	-3.54922331	0.00064475	0.0327398	-0	4629148	Down
TPP2	0.189185499	8	03573875	3.5456390706	0.00065238	0.0329530	-0	47334605	Up
ZNF33B	0.123914749	6	89348163	3.5448949688	0.00065398	0.0329530	-0	47551067	Up
LPO	0.1049405	6	3845975	3.5427792764	0.00065853	0.0329960	-0	48166352	Up

RNF5	-0	1229695	6	17387625	-3	54157776	0.000661135	0.03299605	-0	48515659	Down
CD320	0.1465314995	7	592724	3.54092097885	0.000662565	0.03299605	-0	48706565	Up		
PLEKHA1	0.1256425005	5	7952075	3.53887033215	0.000667035	0.03299605	-0	49302458	Up		
SEMA5A	0	12339075	7	50370263	3.53714829105	0.000670815	0.03303885	-0	49802672	Up	
NBPF1	0.1602682505	10	4387181	3.52942229785	0.000688005	0.03375885	-0	52044748	Up		
SNX5	0	1537635	9	29192875	3.52674759395	0.000694055	0.03392855	-0	52820125	Up	
DICER1	#####	10	3359596	-3	52558245	0.000696705	0.03393155	-0	53157759	Down	
MANBA	0.1551102505	9	14867888	3.51949440375	0.000710715	0.03435835	-0	54920646	Up		
CTSD	-0	33993	8	53194675	-3	5126096	0.000726885	0.03485505	-0	56911605	Down
SREK1IP1	#####	5	69530338	-3	51086735	0.000731025	0.03485505	-0	57414988	Down	
DARS2	0.1108275005	7	3424435	3.51061254325	0.000731635	0.03485505	-0	57488592	Up		
TP63	0.1195727505	6	85468688	3.50216014135	0.000752075	0.03564895	-0	59928031	Up		
EIF2S2	0.1632912495	10	2163809	3.50148229795	0.000753745	0.03564895	-0	60123479	Up		
ABHD14A	0.1610214995	7	06650725	3.50015862255	0.000756995	0.03567425	-0	60505066	Up		
HNRNPA10	0.1738122505	10	0266371	3.49382486385	0.000772765	0.03593415	-0	6232951	Up		
GSE1	#####	7	99671163	-3	49293035	0.000775015	0.03593415	-0	62586982	Down	
ACTN2	0	1304565	7	02953075	3.49061667555	0.000780875	0.03593415	-0	6325272	Up	
YTHDF2	#####	9	19933938	-3	48855195	0.000786135	0.03593415	-0	63846555	Down	
ZNF26	0	1141705	6	50782725	3.48844395155	0.000786405	0.03593415	-0	6387761	Up	
UBE3C	#####	6	99118838	-3	4881957	0.000787045	0.03593415	-0	63948991	Down	
MYO9A	0	159782	7	14689425	3.48720788745	0.000789575	0.03593415	-0	64232984	Up	
LOC10050	#####	5	96574513	-3	48198189	0.000803095	0.03614835	-0	65734476	Down	
COQ6	0.1076150005	6	7221415	3.48098719055	0.000805685	0.03614835	-0	66020081	Up		
IER2	#####	10	9147686	-3	4768847	0.000816485	0.03650775	-0	67197389	Down	
SPOP	0	1707675	8	777203	3.47364431395	0.000825105	0.03668635	-0	68126585	Up	
BMP10	0.1215239995	6	576264	3.47328158435	0.000826075	0.03668635	-0	6823056	Up		
DDB2	0.1521847505	6	64344738	3.46815363895	0.000839915	0.03705915	-0	69699626	Up		
IL1R2	0.2428977495	6	63875963	3.46692013275	0.000843285	0.03705915	-0	70052768	Up		
PNRC1	#####	10	9900134	-3	46510539	0.000848245	0.03705915	-0	70572147	Down	
SOX21	0.1218344995	6	47138875	3.46447413255	0.000849985	0.03705915	-0	70752768	Up		
PMP22	0	10786525	5	89806638	3.46406129445	0.000851115	0.03705915	-0	70870879	Up	
VCP	-0	13897	8	9320675	-3	46394295	0.000851445	0.03705915	-0	70904733	Down
MTMR9	0	14757275	7	74973813	3.46169701105	0.000857655	0.03720575	-0	71547092	Up	
PHACTR4	0.1421182495	5	94813163	3.45646360695	0.000872295	0.03771575	-0	73042715	Up		
DAPK2	0	13900075	6	50472388	3.45184046185	0.000885415	0.03815735	-0	74362566	Up	
CYSLTR2	-0	100205	5	88051775	-3	44854134	0.000894895	0.03843945	-0	75303637	Down
TARBP1	0.1113662505	8	03315938	3.44671100295	0.000900195	0.03854075	-0	75825456	Up		
LOC101920	0.1119719995	6	86501225	3.44510177395	0.000904885	0.03861515	-0	76284071	Up		
RALB	0	1360645	9	99229325	3.43492090665	0.000935055	0.03951665	-0	79181901	Up	
ZNF787	-0	148594	6	58069875	-3	43157085	0.000945195	0.03981655	-0	80134074	Down
FXN	0.1097977505	6	08893538	3.42934320865	0.000951985	0.03990215	-0	80766851	Up		
C10orf76	0	107971	7	44686475	3.42891036225	0.000953315	0.03990215	-0	8088977	Up	
KLK3	0.1013402505	6	67667488	3.42686212575	0.000959615	0.03991075	-0	81471267	Up		
SPATA2L	#####	6	96659613	-3	42505542	0.000965205	0.04001615	-0	81983981	Down	
COL19A1	0	1025975	5	77665225	3.42320979345	0.000970945	0.04012715	-0	82507537	Up	
ADORA3	0.1515845005	6	94050225	3.42128726815	0.000976955	0.04012985	-0	83052687	Up		
TBC1D10I	-0	1938765	8	23164425	-3	42072241	0.000978725	0.04012985	-0	83212815	Down
SIPA1L3	-0	10517	6	0241355	-3	41864649	0.000985275	0.04012985	-0	83801139	Down

SEC61B	-0	145694	11	1307225	-3	41746677	0.00098900	0.0401298	-0	84135358	Down
PCYOX1L	0	16208975	8	17985538	3.4160204808	0.00099360	0.0401298	-0	84544984	Up	
MIR637	#####	6	39593038	-3	41593903	0.00099386	0.0401298	-0	84568051	Down	
GPR3	0	1122405	6	6064925	3.4140722594	0.00099983	0.0401298	-0	85096568	Up	
RC3H2	-0	208844	7	314562	-3	41351086	0.00100163	0.0401298	-0	85255469	Down
TRIM28	-0	2465125	8	49036875	-3	40760665	0.00102077	0.0407717	-0	86925469	Down
DAP3	0.136046500	9	4247075	3.4062218201	0.00102530	0.0408285	-0	87316858	Up		
ONECUT2	0	10454125	6	24460563	3.3993232700	0.00104819	0.0414023	-0	8926483	Up	
RPN2	0.142263249	10	6656471	3.3970021146	0.00105600	0.0414023	-0	89919611	Up		
SLC25A5	0.106000250	11	5194911	3.3961938263	0.00105873	0.0414023	-0	90147546	Up		
RHOF	0	13414375	7	83597013	3.3954075316	0.00106140	0.0414023	-0	90369241	Up	
ADAMTS	0	17601125	6	35863488	3.3920620658	0.00107280	0.0414023	-0	91312067	Up	
CWC25	0	1093695	7	8379195	3.3915530156	0.00107455	0.0414023	-0	91455469	Up	
ZNF91	0.262756499	8	5606105	3.3906726075	0.00107757	0.0414023	-0	91703446	Up		
POFUT1	-0	130745	6	2371725	-3	39051851	0.00107810	0.0414023	-0	91746844	Down
GATAD2A	#####	6	77798738	-3	3898283	0.00108048	0.0414023	-0	91941209	Down	
VPS39	-0	171138	7	86604675	-3	38965986	0.00108106	0.0414023	-0	91988639	Down
IGH	#####	6	84399538	-3	38605692	0.00109356	0.0416478	-0	93002732	Down	
BEST2	0	13235125	6	56794988	3.3838703479	0.00110122	0.0417386	-0	93617782	Up	
MIR4800	#####	7	67878138	-3	38355613	0.00110232	0.0417386	-0	93706143	Down	
CCT4	0.129980250	10	4473166	3.3742881835	0.00113536	0.0426306	-0	96309642	Up		
MIR4321	0.113117000	6	17159375	3.3733371208	0.00113880	0.0426306	-0	96576511	Up		
MAP3K3	0.199562750	7	89006788	3.3733106543	0.00113890	0.0426306	-0	96583937	Up		
CD1E	0	10387825	6	37978463	3.3720002148	0.00114366	0.0426868	-0	96951554	Up	
RECK	-0	2099565	7	82178	-3	37035966	0.00114964	0.0427883	-0	97411628	Down
PHLDA3	0.102533749	7	43201388	3.3677078286	0.00115938	0.0430284	-0	98154954	Up		
CAPZA2	-0	146388	11	2151405	-3	36558482	0.00116723	0.0431974	-0	98749736	Down
SCD5	-0	426464	6	33477	-3	35911655	0.00119146	0.0436519	-1	00560171	Down
C21orf59	0.126466999	8	1610975	3.3578730325	0.00119617	0.0436519	-1	00907929	Up		
IPO5	0.159528999	8	0123825	3.3552592854	0.00120613	0.0437681	-1	0163857	Up		
R3HDM2	-0	1392085	8	289962	-3	35484578	0.00120771	0.0437681	-1	01754123	Down
PHKG1	0.108748500	6	41133525	3.3539864796	0.00121101	0.0437681	-1	01994215	Up		
CTNNB1	#####	8	49718588	-3	35275689	0.00121574	0.0437681	-1	02337688	Down	
TNK1	0	11168775	7	59179213	3.3516013830	0.00122020	0.0437969	-1	02660384	Up	
PLCB3	-0	17417	6	762551	-3	34887247	0.00123080	0.0438172	-1	0342215	Down
EIF3K	0.103202249	11	0946309	3.3469593838	0.00123828	0.0439641	-1	03955908	Up		
TRAP1	0.106475500	8	27371575	3.3459862957	0.00124210	0.0439751	-1	04227315	Up		
PDLIM7	#####	6	48385988	-3	34477377	0.00124688	0.0439751	-1	04565424	Down	
PRDM14	0.139773999	7	58770525	3.3414092698	0.00126023	0.0441314	-1	05503124	Up		
MIR6866	0.130708749	7	84237888	3.3410325723	0.00126173	0.0441314	-1	05608067	Up		
LIMK2	-0	144296	7	230811	-3	34066302	0.00126320	0.0441314	-1	05711012	Down
ZFP36L1	#####	9	85782263	-3	33646394	0.00128009	0.0445542	-1	06880135	Down	
EDA	0.131895749	7	45750888	3.3342484134	0.00128908	0.0446781	-1	07496548	Up		
GTF3A	0.125093249	10	5326154	3.3331695432	0.00129348	0.0447123	-1	07796605	Up		
ZFC3H1	0.186916250	8	91286413	3.3254830266	0.00132525	0.0454507	-1	09932301	Up		
SOAT2	-0	1020485	6	4507545	-3	31937011	0.00135104	0.0459739	-1	11628147	Down
ERGIC2	0.237524250	6	69615438	3.3157284396	0.00136662	0.0461447	-1	12637313	Up		
ARF6	#####	9	35113313	-3	3140667	0.00137379	0.0462675	-1	13097533	Down	

TMEM187	0.113210750	6	39552288	3.3131010914	0.00137797	0.0462893	-1	13364879	Up
PAFAH2	0.10979925	6	60727038	3.3102576705	0.00139035	0.0465857	-1	14151795	Up
IPO9	#####	8	52346088	-3 30474591	0.00141465	0.0468921	-1	15675732	Down
NAPG	0.136754249	6	47146438	3.3044396791	0.00141601	0.0468921	-1	15760346	Up
GPATCH8	0.135180250	8	30822263	3.3032734622	0.00142121	0.0468921	-1	16082526	Up
TFDP2	0.111051500	6	776718	3.3020174925	0.00142682	0.0468921	-1	16429405	Up
SUPT7L	0.163878000	7	834466	3.2996911862	0.00143728	0.0468921	-1	17071634	Up
FOXN1	0.10664075	6	09804263	3.2975983324	0.00144675	0.0468921	-1	17649123	Up
HIST1H3C	0.113052999	7	06182975	3.2964586674	0.00145193	0.0468921	-1	1796348	Up
RPSAP19	0.123148249	12	0499731	3.2963094686	0.00145261	0.0468921	-1	18004628	Up
TCN2	0.146016	7	245994	3.2961673755	0.00145326	0.0468921	-1	18043815	Up
MXD3	#####	7	39777113	-3 29613744	0.00145340	0.0468921	-1	18052069	Down
EPB41L4A	0.1242435	6	12681575	3.2956035717	0.00145583	0.0468921	-1	1819929	Up
EIF3F	0.124689999	11	5347513	3.2954006407	0.00145676	0.0468921	-1	18255245	Up
CAPZA1	-0.160234	10	978931	-3 28621505	0.00149930	0.0478970	-1	20785344	Down
OGFRL1	-0.129798	9	0697365	-3 28604958	0.00150007	0.0478970	-1	20830873	Down
PDCL	0.1131425	6	774774	3.2832256103	0.00151339	0.0480094	-1	21607617	Up
TMEM126	0.179497250	9	25904463	3.2820802913	0.00151882	0.0480094	-1	21922499	Up
PPT2-EGF	0.128105500	6	61784375	3.2816667587	0.00152079	0.0480094	-1	22036171	Up
IRF8	0.160073249	11	0873479	3.2754662618	0.00155055	0.0487142	-1	23739273	Up
FAM110D	0.107225250	6	03964913	3.2722115629	0.00156639	0.0487877	-1	24632278	Up
ALKBH1	0.100640500	8	74043275	3.2719264593	0.00156779	0.0487877	-1	24710471	Up
UBE2J1	-0.3502585	8	7801785	-3 27092978	0.00157267	0.0488238	-1	24983781	Down
U2AF2	-0.187941	8	777588	-3 26976621	0.00157839	0.0488856	-1	25302778	Down
EGR2	#####	8	60900713	-3 26680409	0.00159305	0.0492230	-1	26114469	Down
CHMP7	-0.127251	7	6169115	-3 26562613	0.00159891	0.0492879	-1	26437103	Down
CD1C	0.207332749	9	29197388	3.2603859044	0.00162524	0.0496323	-1	27871298	Up
PRPSAP2	0.155043999	7	96576175	3.2589355005	0.00163259	0.0497411	-1	28267951	Up
PTPN1	#####	7	72549688	-3 25651556	0.00164494	0.0498852	-1	28929455	Down
MBD1	0.116039250	8	75317813	3.2554399392	0.00165046	0.0499369	-1	29223363	Up
CBR1	0.219340249	7	54942063	3.2542147151	0.00165676	0.0500121	-1	29558059	Up
RASA3	#####	7	22883088	-3 25010987	0.00167805	0.0505382	-1	30678693	Down
DDX17	0.110595000	11	8929725	3.2483044722	0.00168749	0.0505543	-1	31171233	Up
FOXC2	0.109565750	5	63095613	3.2476613222	0.00169086	0.0505543	-1	31346644	Up
HMGCL	0.123581500	8	60962075	3.2470621154	0.00169401	0.0505543	-1	31510046	Up
ATP5A1	0.105330499	11	9108378	3.2456430139	0.00170150	0.0506547	-1	31896941	Up
EIF3D	0.119607000	10	4903405	3.2440487837	0.00170994	0.0506547	-1	3233143	Up
PPP2CA	-0.1258215	9	61633075	-3 24341805	0.00171329	0.0506547	-1	32503283	Down
SNRPG	-0.171665	9	581378	-3 24277614	0.00171671	0.0506547	-1	32678157	Down
FCGR2C	0.290208749	10	5189756	3.2346635250	0.00176046	0.0517125	-1	34885994	Up
RUVBL2	0.135855750	8	50139188	3.2329458049	0.00176985	0.0518040	-1	35352931	Up
FIG4	0.1218225	9	5366175	3.2326492860	0.00177148	0.0518040	-1	35433516	Up
SEMA6A	0.142599000	6	67020475	3.2296540919	0.00178799	0.0520902	-1	3624721	Up
C1orf56	-0.197043	6	832726	-3 22914504	0.00179081	0.0520902	-1	36385446	Down
PIGQ	0.10823025	5	96658713	3.2287147967	0.00179319	0.0520902	-1	36502267	Up
COA1	0.131290249	7	50740813	3.2273714438	0.00180066	0.0521166	-1	36866944	Up
PTX3	#####	5	64393663	-3 22633406	0.00180645	0.0521166	-1	37148482	Down
RAB40B	-0.1901015	6	029946	-3 22379491	0.00182070	0.0523092	-1	37837297	Down

APH1A	-0	1524205	8	439615	-3	22215613	0.00182995	0.0523481	-1	38281643	Down
NOS1	0.102469500	6	70548975	3.2210509769	0.00183621	0.0524101	-1	38581202	Up		
LIPE	0.154348249	6	82107338	3.2190221451	0.00184776	0.0526250	-1	39130928	Up		
HBP1	0.174027999	10	1023298	3.2149948793	0.00187088	0.0531681	-1	40221362	Up		
SARS2	0.111996249	6	68132363	3.2134391223	0.00187989	0.0532794	-1	40642325	Up		
INTS8	0.198692250	9	06393988	3.2129144663	0.00188293	0.0532794	-1	40784253	Up		
GJA4	0.105376500	7	40296925	3.2104340587	0.00189740	0.0534088	-1	41455008	Up		
COPS3	0.164703749	8	71555413	3.209979153	0.00190006	0.0534088	-1	41577982	Up		
PSMA1	0.115974250	10	9394559	3.2093396217	0.00190381	0.0534088	-1	41750842	Up		
RBBP6	0.151137000	7	91747725	3.2070398403	0.00191736	0.0536028	-1	42372238	Up		
CPT2	0.138962250	6	85083613	3.2057179372	0.00192519	0.0536636	-1	4272926	Up		
RBPJ	0	182516	10	140675	3.2029870405	0.00194145	0.0540021	-1	4346647	Up	
POLR1C	0.118010750	7	08296638	3.2009848380	0.00195346	0.0542209	-1	44006664	Up		
FAM49A	0.215074250	9	17119513	3.1969140386	0.00197808	0.0543822	-1	4510417	Up		
HIF3A	0	143866	6	3567025	3.1967282750	0.00197921	0.0543822	-1	45154227	Up	
SRGAP2C	0	1096945	6	77868775	3.1966031791	0.00197997	0.0543822	-1	45187935	Up	
RAB6B	0	1221125	8	08257825	3.1952345741	0.00198832	0.0543822	-1	45556651	Up	
ZFAND3	0.140554250	7	53023363	3.1908263266	0.00201545	0.0550092	-1	46743456	Up		
SWAP70	-0	174001	7	19497075	-3	18838846	0.00203059	0.0553074	-1	47399251	Down
RAB40C	-0	155603	6	40006625	-3	1816723	0.00207288	0.0557635	-1	49203938	Down
ARPC3	-0	116599	11	441973	-3	17875506	0.00209150	0.0559533	-1	49986917	Down
FAM89B	-0	2097035	9	07467675	-3	17856023	0.00209275	0.0559533	-1	50039188	Down
PPIH	0	16188875	7	54808663	3.1767038302	0.00210469	0.0561579	-1	50537132	Up	
AIMP2	0.117569499	9	262721	3.1730913201	0.00212810	0.0563599	-1	51505479	Up		
RNF24	0.141782250	7	60169713	3.1729101188	0.00212928	0.0563599	-1	51554029	Up		
CTDSP1	#####	9	41008363	-3	17288167	0.00212947	0.0563599	-1	51561652	Down	
CCNB1IP1	0.142464749	7	31411063	3.1698806121	0.00214911	0.0567541	-1	52365413	Up		
TRADD	0.120869249	9	00411413	3.1692859910	0.00215302	0.0567541	-1	52524599	Up		
CD99	-0	2152585	10	755669	-3	16453628	0.00218452	0.0572501	-1	53795323	Down
PPIE	0	13238875	8	21522613	3.1642838711	0.00218620	0.0572501	-1	5386281	Up	
DUSP7	-0	218494	7	58266375	-3	16269294	0.00219686	0.0572501	-1	54288088	Down
NPRL2	0.124389250	7	81088838	3.1626052474	0.00219744	0.0572501	-1	54311526	Up		
TAOK3	0.217589499	8	899932	3.1617480536	0.00220321	0.0572501	-1	54540594	Up		
TMEM242	0.106194749	6	46727363	3.1611802038	0.00220703	0.0572501	-1	54692314	Up		
CYP2W1	#####	5	76521913	-3	15866246	0.00222406	0.0574022	-1	55364763	Down	
FST	0	12091075	7	88849988	3.1577612224	0.00223019	0.0574022	-1	55605368	Up	
ITCH	0.116845749	7	37742088	3.1564587582	0.00223907	0.0575177	-1	55952997	Up		
IMP3	0.145618500	8	6188285	3.1544813202	0.00225261	0.0575843	-1	56480567	Up		
EP300	-0	2017325	7	0303845	-3	15415661	0.00225484	0.0575843	-1	56567174	Down
IGBP1	0	12283575	10	0187989	3.1528629471	0.00226376	0.0576165	-1	56912151	Up	
TSC22D2	-0	216456	7	373781	-3	15082251	0.00227788	0.0577225	-1	57456046	Down
KCNE1	0.103476999	6	29871275	3.1497484668	0.00228535	0.0577999	-1	57742234	Up		
LOX	0.101772250	6	30239838	3.1459529341	0.00231192	0.0583162	-1	5875298	Up		
ABR	-0	1253585	8	773358	-3	14488362	0.00231945	0.0583162	-1	59037569	Down
AP3M2	0.105407500	6	74569025	3.1448527878	0.00231967	0.0583162	-1	59045773	Up		
KIR3DS1	0.105904000	6	2093185	3.1436731519	0.00232801	0.0583162	-1	59359633	Up		
RHBDF2	-0	2031435	7	627199	-3	14094598	0.00234741	0.0585236	-1	60084891	Down
KIAA0141	0.120041249	8	47838188	3.1402441798	0.00235242	0.0585236	-1	60271448	Up		

PLAC4	0	1006445	7	163862	3.1401589324	0.002353038	0.0585236	-1	60294107	Up	
KLK10	0.105450000	6	56936875	3.1373727464	0.002373052	0.0586280	-1	61034416	Up		
IREB2	#####	5	78737388	-3	13714199	0.00237471	0.0586280	-1	61095706	Down	
AKT1	-0	2348835	7	82181575	-3	13649685	0.00237937	0.0586280	-1	61267042	Down
PIAS2	0.110469999	6	8482975	3.1363077413	0.00238074	0.0586280	-1	61317261	Up		
CIR1	#####	6	28491238	-3	13501029	0.00239014	0.0587491	-1	6166174	Down	
BCS1L	0.106646499	7	6914405	3.1324432640	0.00240885	0.0589344	-1	62342972	Up		
HAB1	#####	7	75163263	-3	1322041	0.00241060	0.0589344	-1	62406419	Down	
RPLP0	0.102347499	12	84487	3.1321252538	0.00241117	0.0589344	-1	62427335	Up		
CLCN6	0.107888749	7	05766188	3.1197351217	0.00250347	0.0604015	-1	65709086	Up		
KCNN3	0	115514	5	746767	3.1146979811	0.00254193	0.0609996	-1	67040388	Up	
CGB1	0.148156500	6	91435275	3.1145385635	0.00254315	0.0609996	-1	67082495	Up		
LOC72839	0.242333250	9	36492988	3.1141577400	0.00254608	0.0609996	-1	67183074	Up		
PSMB4	0.122148249	10	6986891	3.1140537750	0.00254688	0.0609996	-1	6721053	Up		
SLC30A3	-0	1022495	8	53436925	-3	11316133	0.00255377	0.0610474	-1	67446191	Down
CTRL	0.123536250	6	35676813	3.1125875566	0.00255820	0.0610474	-1	67597673	Up		
OR7E156F	0	11062625	6	37188513	3.1098952888	0.00257910	0.0613228	-1	68308177	Up	
RPL12	0.100335000	12	7861063	3.1067898114	0.00260341	0.0617887	-1	69127137	Up		
FH	0.145161750	8	34215813	3.1043136182	0.00262295	0.0619158	-1	69779691	Up		
NBEAL2	-0	268517	8	25463	-3	10369704	0.00262783	0.0619196	-1	69942115	Down
ZBTB16	0.195140999	6	23863775	3.1014500849	0.00264571	0.0621037	-1	70533818	Up		
TUBA8	#####	5	89343588	-3	10090988	0.00265002	0.0621037	-1	70676024	Down	
MAP1LC3	0	12775525	10	0095379	3.1003365889	0.00265461	0.0621037	-1	70826918	Up	
COMMD3	0.117149250	9	37890938	3.0989896475	0.00266541	0.0622453	-1	71181357	Up		
ITGAL	#####	8	92191163	-3	09429546	0.00270339	0.0627963	-1	72415667	Down	
GPR52	0.120477999	6	98626	3.0921506108	0.00272090	0.0630913	-1	72979162	Up		
KCNK10	-0	143194	5	882682	-3	09071027	0.00273273	0.0632535	-1	73357396	Down
SCNN1A	-0	1645065	7	673697	-3	08919022	0.00274525	0.0632580	-1	73756415	Down
NF2	-0	114438	7	454364	-3	08854382	0.00275060	0.0632580	-1	73926051	Down
MTUS1	0.104160249	5	97090338	3.0883463718	0.00275223	0.0632580	-1	73977862	Up		
SNRPA1	0	162408	7	65946125	3.0877299198	0.00275734	0.0632644	-1	74139604	Up	
KLHDC2	0.179295250	7	99048113	3.0847738022	0.00278196	0.0637176	-1	74914873	Up		
TLK1	#####	7	55077588	-3	08097643	0.00281388	0.0643363	-1	75909921	Down	
KRIT1	#####	6	84374663	-3	07748184	0.00284356	0.0648769	-1	76824785	Down	
SF3B1	0	12838825	11	6445604	3.0770288738	0.00284743	0.0648769	-1	7694331	Up	
EPS15L1	0	139644	7	61707325	3.0756650426	0.00285911	0.0650299	-1	77300093	Up	
GON4L	0.102010250	6	94176063	3.0738447533	0.00287476	0.0650774	-1	77776096	Up		
NOP2	0.138168500	8	5059825	3.0713110387	0.00289668	0.0651363	-1	78438292	Up		
AKR7A2	0.197405500	8	33709925	3.0711242858	0.00289831	0.0651363	-1	78487084	Up		
ZNF652	#####	8	14909338	-3	07051994	0.00290356	0.0651363	-1	78644962	Down	
PGLYRP1	#####	7	26662913	-3	06474045	0.00295426	0.0659349	-1	80153558	Down	
FAM86DP	0.121925249	6	83450488	3.0635408302	0.00296489	0.0660595	-1	80466412	Up		
DDIT3	0.124028500	7	81643825	3.0623638145	0.00297535	0.0660679	-1	80773278	Up		
IDS	-0	17358	9	55111425	-3	05374474	0.00305300	0.0675338	-1	83017595	Down
LOC10050	0	1122335	6	679734	3.0528551740	0.00306112	0.0675338	-1	83248947	Up	
TK2	#####	7	41596738	-3	05186395	0.00307019	0.0676009	-1	83506675	Down	
ALS2CL	#####	8	42521788	-3	04981417	0.00308903	0.0677879	-1	84039432	Down	
JUN	-0	1935445	6	3641165	-3	04567931	0.00312736	0.0685143	-1	85113268	Down

SOAT1	#####	6	92717188	-3	04121407	0.00316925	0.0688563	-1	86271625	Down
CCDC47	#####	7	02630413	-3	0392918	0.00318744	0.0690525	-1	86769884	Down
URI1	0.120519499	5	7566515	3.0391462275	0.00318882	0.0690525	-1	86807605	Up	
COPA	-0 148989	10	1751883	-3	03840561	0.00319586	0.0690907	-1	86999503	Down
LRIG2	0.114510249	6	74892163	3.0367184581	0.00321195	0.0692101	-1	87436514	Up	
AIM1	#####	8	92733113	-3	03570124	0.00322168	0.0693059	-1	87699905	Down
HIST1H2A	0 13262125	5	38276363	3.0329030227	0.00324860	0.0696563	-1	88424098	Up	
POLDIP2	#####	7	67663963	-3	03202849	0.00325706	0.0697235	-1	88650325	Down
VPS52	0 10017075	9	63721188	3.0300805712	0.00327597	0.0700139	-1	89154033	Up	
GSN	-0 227381	9	43219125	-3	02890512	0.00328743	0.0701444	-1	89457866	Down
NPC1	0 15374375	6	40217763	3.0274841662	0.00330133	0.0702624	-1	89825037	Up	
RTCB	0.147031250	9	12312163	3.0272439659	0.00330369	0.0702624	-1	8988709	Up	
ENPP2	0.100511249	6	93776588	3.0249999820	0.00332577	0.0705961	-1	90466616	Up	
CELP	0.129258999	6	66871975	3.0245562507	0.00333015	0.0705961	-1	90581173	Up	
CTSK	0 12688975	7	67982138	3.0217463509	0.00335803	0.0710720	-1	91306291	Up	
RPS11	#####	6	72013588	-3	01950668	0.00338041	0.0712005	-1	91883876	Down
ZNF771	0.122105250	6	68935163	3.0164394880	0.00341127	0.0717353	-1	92674326	Up	
SEC31B	0.127611749	7	27051413	3.0139602915	0.00343641	0.0718363	-1	9331278	Up	
CPN1	0.113089000	5	97973775	3.0120027535	0.00345639	0.0718363	-1	93816602	Up	
NXPE3	#####	5	58755763	-3	01170249	0.00345946	0.0718363	-1	93893861	Down
CROCCP2	0 23255725	7	50874088	3.0115067884	0.00346146	0.0718363	-1	93944211	Up	
MIR1304	0.178500750	8	89191663	3.0111983145	0.00346462	0.0718363	-1	94023571	Up	
MUC8	#####	8	49710388	-3	01112014	0.00346543	0.0718363	-1	94043682	Down
CACNA2I	0.258895999	8	457889	3.0083711999	0.00349372	0.0718415	-1	94750593	Up	
PRH1-PRF	#####	5	81967088	-3	00813069	0.00349621	0.0718415	-1	94812418	Down
TNXB	0 10099	7	55697175	3.0078835276	0.00349876	0.0718415	-1	94875948	Up	
PRKCB	0.195084749	10	2067619	3.0073718249	0.00350406	0.0718415	-1	95007464	Up	
ZMYND8	#####	7	18985613	-3	00668126	0.00351122	0.0718759	-1	95184922	Down
CEBPE	-0 1964915	6	2783045	-3	00309216	0.00354866	0.0725289	-1	96106712	Down
GSTK1	0.168928250	10	2361911	3.0005536458	0.00357536	0.0727701	-1	96758158	Up	
MARK2	0 17038575	6	09354313	2.9990237230	0.00359155	0.0728580	-1	97150563	Up	
ANP32E	-0 275276	8	77743875	-2	9984034	0.00359813	0.0728580	-1	97309623	Down
JUNB	#####	9	82572188	-2	98883431	0.00370107	0.0743678	-1	99759987	Down
PCNT	0.105995499	7	65129525	2.9866956363	0.00372445	0.0744999	-2	00306794	Up	
HNRNPUI	#####	8	10750563	-2	98649226	0.00372668	0.0744999	-2	00358775	Down
DUSP3	#####	9	54311538	-2	98615375	0.00373040	0.0744999	-2	00445291	Down
OXA1L	0.119555499	10	6287658	2.9852792756	0.00374001	0.0745782	-2	00668752	Up	
TIMM10B	0.133800249	7	08878363	2.9837434098	0.00375695	0.0746033	-2	01061097	Up	
ITIH4	0.143023750	6	94360913	2.9832888178	0.00376197	0.0746033	-2	01177194	Up	
STK4	-0 2709815	6	20712075	-2	98310157	0.00376405	0.0746033	-2	01225011	Down
ZFP36	#####	11	0706421	-2	97988838	0.00379977	0.0751073	-2	02045179	Down
GLB1L2	0.105923999	6	82571175	2.9789100365	0.00381071	0.0751073	-2	02294765	Up	
TIA1	0.210324249	8	87231988	2.9787588697	0.00381241	0.0751073	-2	02333323	Up	
EMG1	0 12964275	8	60941113	2.9739354347	0.00386680	0.0759504	-2	03562827	Up	
FAM129A	#####	8	85573363	-2	9720936	0.00388775	0.0760566	-2	04031899	Down
TNIP1	#####	8	74241613	-2	97193011	0.00388962	0.0760566	-2	04073525	Down
LDLOC1	0 10421975	6	46413513	2.9694755212	0.00391772	0.0762620	-2	04698264	Up	
TBCA	#####	10	2629409	-2	9685857	0.00392796	0.0762620	-2	04924639	Down

KIDINS22	#####	8	93664088	-2	96820708	0.00393232	0.0762620	-2	05020946	Down	
LDHA	-0	123603	11	3076148	-2	96579132	0.00396026	0.0762620	-2	05635197	Down
RNF13	0.148670999	10	7458958	2.9650784009	0.00396854	0.0762620	-2	05816393	Up		
PTEN	0.167074249	9	79289138	2.9646581609	0.00397343	0.0762620	-2	05923185	Up		
ATP2C1	#####	6	68076063	-2	96212245	0.00400305	0.0763267	-2	06567313	Down	
NDUFB8	0.120587250	10	2152464	2.9616394524	0.00400871	0.0763267	-2	06689955	Up		
ST6GALN	#####	6	48231113	-2	96123255	0.00401349	0.0763267	-2	06793263	Down	
HDHD3	0.107817000	6	047901	2.9611780323	0.00401413	0.0763267	-2	06807104	Up		
KRT15	#####	5	51868738	-2	95959949	0.00403271	0.0765434	-2	07207766	Down	
HP	#####	7	99014213	-2	95701895	0.00406327	0.0765434	-2	07862388	Down	
RPS27L	#####	9	92762563	-2	95650254	0.00406941	0.0765434	-2	07993336	Down	
BIRC7	-0	153155	6	33599275	-2	95458943	0.00409223	0.0765434	-2	08478286	Down
MAP3K14	0	1386305	7	68041075	2.9543110637	0.00409556	0.0765434	-2	08548829	Up	
WBP4	#####	5	78198513	-2	95307589	0.00411037	0.0766003	-2	08861775	Down	
POMT1	0.114971249	6	57762613	2.9514678767	0.00412973	0.0766388	-2	0926903	Up		
MIA3	0.113156749	8	85016113	2.9487179394	0.00416302	0.0771425	-2	09965085	Up		
NRP2	0.100463499	7	217892	2.9452915456	0.00420485	0.0775884	-2	10831641	Up		
MYZAP	0.105845750	6	41653288	2.9437151455	0.00422422	0.0776990	-2	11230053	Up		
ORAI2	#####	6	82597488	-2	94363217	0.00422525	0.0776990	-2	11251019	Down	
HIST1H4J	0	10094575	6	36176413	2.9430675335	0.00423221	0.0776990	-2	11393678	Up	
ZNF768	-0	146679	5	964569	-2	94143853	0.00425235	0.0776990	-2	11805134	Down
TFAM	#####	7	78426538	-2	94074248	0.00426098	0.0776990	-2	11980888	Down	
POP5	0	13760525	8	52842313	2.9404804018	0.00426424	0.0776990	-2	12047055	Up	
CBLL1	-0	113821	5	6163545	-2	93958472	0.00427538	0.0776990	-2	12273152	Down
ALOXE3	0.105162000	6	69626625	2.9385773978	0.00428794	0.0776990	-2	12527364	Up		
FZR1	#####	6	75555088	-2	9355693	0.00432566	0.0781662	-2	1328609	Down	
MPHOSF	0.160826250	8	53881413	2.9329743531	0.00435844	0.0783898	-2	13940108	Up		
RNF38	#####	8	88650163	-2	93186813	0.00437249	0.0783898	-2	14218776	Down	
NUPR1	#####	5	96280563	-2	93148529	0.00437736	0.0783898	-2	14315196	Down	
TUBB	#####	10	4085334	-2	93062441	0.00438833	0.0784052	-2	14531978	Down	
USP9X	0.140941000	9	2166455	2.9258869875	0.00444915	0.0790008	-2	15724026	Up		
NEMP1	0	1234855	6	054768	2.9249434713	0.00446136	0.0790008	-2	15961253	Up	
DNAJB14	-0	2929525	7	076998	-2	92483005	0.00446283	0.0790008	-2	15989765	Down
SLC25A3	0.121986750	8	84173563	2.9230567265	0.00448586	0.0790111	-2	16435452	Up		
MIR6758	0	11606375	8	92536938	2.9208807938	0.00451427	0.0793846	-2	16982029	Up	
LOC100120	0.111969749	6	73179238	2.9198535436	0.00452774	0.0794083	-2	17239954	Up		
CMC4	0.109170999	7	538323	2.9147225796	0.0045956	0.0803829	-2	18527162	Up		
FLT3LG	#####	5	79935063	-2	9133181	0.00461432	0.0805709	-2	18879189	Down	
PPWD1	0.229529999	7	674186	2.9126475340	0.00462329	0.0805709	-2	19047217	Up		
PIK3R4	0.148057750	7	58538463	2.9124118390	0.00462644	0.0805709	-2	19106269	Up		
RNF113A	0	12485	8	53264275	2.9120768486	0.00463093	0.0805709	-2	19190192	Up	
GJB5	0.105314249	5	99727688	2.9113994920	0.00464002	0.0806220	-2	19359862	Up		
CREBBP	-0	155997	9	287399	-2	9096655	0.00466337	0.0809202	-2	19794065	Down
LHPP	0.142851249	6	56980663	2.9075734276	0.00469167	0.0812229	-2	20317657	Up		
ATP6AP2	#####	11	2762936	-2	90531099	0.00472247	0.0814067	-2	20883547	Down	
NDUFA7	0	132099	7	918168	2.9046435876	0.00473159	0.0814567	-2	21050414	Up	
PAXBP1	0	141972	7	68965775	2.9034954073	0.00474731	0.0815208	-2	21337415	Up	
CYTH1	-0	1107625	9	34462425	-2	90280785	0.00475675	0.0815480	-2	21509233	Down

VNN3	0.1395054995	6	38596175	2.8982586097	0.00481965	0.0821860	-2	22645257	Up	
WNT10B	0.1270937495	7	42713413	2.8975178629	0.00482996	0.0821860	-2	22830099	Up	
HCK	#####	11	5908959	-2	8970361	0.00483668	0.0821860	-2	22950295	Down
ABCA7	#####	6	34654913	-2	89575213	0.00485463	0.0822514	-2	23270558	Down
RABGGT1	0.1549272495	8	03808313	2	890342494	0.00493093	0.0831925	-2	24618642	Up
PTAFR	0.134200250	10	1993276	2.8889347636	0.00495097	0.0831925	-2	24969117	Up	
PTP4A1	0.139752250	8	95519288	2.8887153686	0.00495410	0.0831925	-2	25023726	Up	
SLC1A2	-0 1224035	7	65050625	-2	88834237	0.00495942	0.0831925	-2	25116562	Down
CDKN2C	0.1219829995	6	44109375	2.8860171576	0.00499273	0.0832109	-2	25695062	Up	
SELT	0.1501847495	10	8260026	2.8828806123	0.00503799	0.0834347	-2	26474825	Up	
POM121	#####	6	69992288	-2	88103317	0.00506482	0.0836750	-2	26933789	Down
CEP170B	-0 117764	7	4710245	-2	87948427	0.00508742	0.0838152	-2	27318408	Down
ANKRD27	#####	7	72031163	-2	87913673	0.00509250	0.0838152	-2	27404682	Down
KIR2DS5	0.115611250	6	96356513	2.8791366426	0.00509251	0.0838152	-2	27404705	Up	
FAM175B	0 105625	8	740508	2.8742466752	0.00516453	0.0848370	-2	2861775	Up	
CCRL2	0 12671375	6	69200488	2.8720388012	0.00519735	0.0852197	-2	2916491	Up	
CDX2	0 11513575	6	42583813	2.8707765145	0.00521621	0.0854219	-2	29477581	Up	
BCL7B	#####	7	06018938	-2	86765185	0.00526315	0.0859757	-2	3025109	Down
TSR3	-0 1737045	7	248202	-2	86443315	0.00531191	0.0864488	-2	31047167	Down
KANK2	#####	6	81065213	-2	86312577	0.00533183	0.0866654	-2	31370313	Down
DDX54	#####	6	82129213	-2	86208732	0.00534770	0.0867083	-2	31626905	Down
PTGER2	-0 202471	7	696505	-2	85665238	0.00543149	0.0875252	-2	32968598	Down
PYGL	#####	8	86915088	-2	85534325	0.00545186	0.0876378	-2	33291468	Down
TMUB2	#####	7	41482588	-2	854833	0.00545981	0.0876581	-2	3341728	Down
UBE2G2	0 15505975	7	87759913	2.8473132934	0.00557830	0.0888179	-2	35269282	Up	
FAM111A	0.1309619995	9	7508235	2.8417443060	0.00566757	0.0897834	-2	36638305	Up	
ORC5	0.115347750	6	21354588	2.8403532624	0.00569007	0.0899061	-2	36979927	Up	
CHRNA4	-0 103424	6	54512025	-2	83830538	0.00572335	0.0900139	-2	37482613	Down
ZDHC11	-0 142638	5	284905	-2	8363569	0.00575517	0.0901798	-2	37960628	Down
CNOT7	0.1279094995	9	57524	2.8359750052	0.00576143	0.0901798	-2	38054286	Up	
CNIH4	-0 1820195	8	38477975	-2	83549048	0.00576938	0.0901965	-2	38173099	Down
SLC16A2	0.1121407495	6	96277538	2.8311551683	0.00584094	0.0910734	-2	3923545	Up	
CD180	#####	8	70630513	-2	83070777	0.00584837	0.0910734	-2	39345009	Down
RAB20	0.162759250	9	12578613	2.8304126530	0.00585327	0.0910734	-2	39417269	Up	
QPCT	-0 1961255	9	5122795	-2	82880255	0.00588011	0.0913219	-2	39811399	Down
RUFY2	0.2203022495	6	64919388	2.8216286992	0.00600105	0.0927121	-2	41565248	Up	
VPS9D1	-0 153242	6	74922275	-2	81743997	0.00607272	0.0933788	-2	4258763	Down
SLC25A37	#####	7	03158588	-2	81605967	0.00609651	0.0936347	-2	42924264	Down
SOX15	0.190254250	7	36880188	2.8134904600	0.00614102	0.0942078	-2	43550495	Up	
FUBP1	0.1011124995	8	25356875	2.8093989707	0.00621251	0.0950819	-2	44546817	Up	
CCL13	0.103716500	6	73428325	2.8080650662	0.00623598	0.0953298	-2	44871382	Up	
PKN1	-0 2696115	6	69632625	-2	80747877	0.00624632	0.0953766	-2	45014	Down
CD2BP2	#####	8	36194513	-2	80624083	0.00626821	0.0955994	-2	45315053	Down
ATP5H	#####	11	2747531	-2	8045203	0.00629875	0.0958242	-2	45733285	Down
RAB32	0.121245750	10	0581339	2.8041750660	0.00630490	0.0958242	-2	45817181	Up	
GLG1	#####	9	25398313	-2	80369183	0.00631351	0.0958439	-2	45934599	Down
GAB2	#####	8	80261338	-2	79950282	0.00638859	0.0964251	-2	46951763	Down
TMEM51	0.102314500	6	864167	2.7978194218	0.00641900	0.0965503	-2	47360172	Up	

COG2	0.109451250	8	23242588	2.7935635048	0.00649646	0.0969496	-2	48391808	Up	
KIAA0930	#####	9	65807138	-2	7931871	0.00650335	0.0969496	-2	48482987	Down
CTNNAL1	#####	5	65374213	-2	79297403	0.00650725	0.0969496	-2	48534596	Down
PPIG	0.267621749	8	30329938	2.7908851448	0.00654564	0.0971734	-2	49040389	Up	
PPP3CC	0.114058750	5	97461488	2.7906797428	0.00654943	0.0971734	-2	49090107	Up	
TNFRSF8	-0 1311045	6	67579775	-2	7863946	0.00662887	0.0977692	-2	50126662	Down
WDR6	-0 140199	7	67504075	-2	78625965	0.00663139	0.0977692	-2	50159284	Down
VENTX	0.139064250	7	88456738	2.7810345112	0.00672949	0.0986027	-2	51421413	Up	
NSUN5P2	0 11209625	9	22578388	2.7802883997	0.00674360	0.0986027	-2	51601478	Up	
ELANE	#####	6	35462763	-2	77369559	0.00686952	0.1002192	-2	53190859	Down
ITM2A	0.108932749	7	02088163	2.7680860147	0.00697834	0.1012496	-2	54540776	Up	
AKR1A1	0 121629	9	67509925	2.7680658452	0.00697873	0.1012496	-2	54545625	Up	
HIPK1	-0 121262	9	4839095	-2	76611092	0.00701703	0.1015803	-2	5501554	Down
ZNF211	0.148297750	7	51907563	2.7646410695	0.00704595	0.1016955	-2	55368678	Up	
EPB41	0.114312749	6	53519213	2.7645231891	0.00704827	0.1016955	-2	55396992	Up	
STEAP3	0 11233475	7	34126988	2.7638373134	0.00706181	0.1017284	-2	55561718	Up	
EIF3E	0.105453750	11	6497509	2.7629886581	0.00707859	0.1017284	-2	55765492	Up	
FGFR2	0.102846250	7	70886963	2.7626090841	0.00708611	0.1017284	-2	55856616	Up	
PFDN4	#####	7	68196588	-2	76244409	0.00708938	0.1017284	-2	55896224	Down
CHI3L1	0 10551625	6	74384288	2.7573058232	0.00719191	0.1028921	-2	57128701	Up	
FOLR3	0.549067750	7	86787338	2.7570808001	0.00719643	0.1028921	-2	57182632	Up	
OSTF1	0 1562675	8	97055875	2.7555149886	0.00722796	0.1030604	-2	57557813	Up	
TSPYL1	#####	8	66995838	-2	75544334	0.00722941	0.1030604	-2	57574977	Down
MORN1	-0 1764575	7	69828275	-2	754971	0.00723895	0.1030842	-2	57688117	Down
TYW1	0 102517	7	3062655	2.7530995961	0.00727685	0.1032872	-2	58136218	Up	
STAB2	0.101142499	7	08778525	2.7480995659	0.00737901	0.1039278	-2	59332235	Up	
SEPT11	#####	6	45298163	-2	74649126	0.00741215	0.1041387	-2	59716567	Down
ZSCAN2	#####	6	10431413	-2	74628881	0.00741633	0.1041387	-2	59764933	Down
IL1RAPL2	0.101154749	7	76698113	2.7445063450	0.00745324	0.1043211	-2	6019064	Up	
NUP85	0.145815750	7	65192213	2.7442480606	0.00745860	0.1043211	-2	60252307	Up	
LOC33916	-0 1283675	6	569908	-2	74120125	0.00752211	0.1047588	-2	60979399	Down
BCL6	-0 177637	10	4712793	-2	74093177	0.00752775	0.1047588	-2	61043676	Down
RALA	#####	6	69173088	-2	73828626	0.00758334	0.1051699	-2	61674412	Down
YIPF5	0 20722175	8	05769013	2.7376597566	0.00759656	0.1051699	-2	61823708	Up	
CEBPA	#####	9	22140538	-2	73435169	0.00766670	0.1057882	-2	62611559	Down
RBBP4	0.141616999	9	3168465	2.7320406842	0.00771605	0.1061118	-2	63161483	Up	
WIPI2	-0 1126545	9	16986275	-2	73153273	0.00772694	0.1061118	-2	63282304	Down
KIAA0100	-0 1251575	8	520281	-2	73025073	0.00775448	0.1063010	-2	63587156	Down
ATRAID	0 106356	9	38449275	2.7283565071	0.00779533	0.1065141	-2	64037377	Up	
ARL4C	0.262093749	7	81819688	2.7257592785	0.00785167	0.1069280	-2	6465427	Up	
PALM	#####	8	37438138	-2	72482607	0.00787200	0.1069497	-2	64875808	Down
LOC10050	#####	6	32459713	-2	72418854	0.00788592	0.1069497	-2	65027116	Down
APOBR	#####	8	40553238	-2	72029545	0.00797139	0.1074416	-2	65950459	Down
DKFZP58	0.162173750	8	40785888	2.7186747256	0.00800723	0.1077030	-2	66334533	Up	
FAM65B	#####	9	87054463	-2	71619613	0.00806231	0.1078176	-2	66921539	Down
TMEM14E	#####	9	44947013	-2	71572441	0.00807284	0.1078176	-2	67033206	Down
SNCG	-0 135363	6	06988775	-2	71570114	0.00807335	0.1078176	-2	67038715	Down
DOLPP1	#####	8	45482438	-2	71114602	0.00817562	0.1088966	-2	6811619	Down

DHX38	-0	100507	6	86157075	-2	71099242	0.00817909	0.1088966	-2	68152496	Down
ZNF589	0.109260000	7	926346	2.7097152920	0.00820798	0.1091703	-2	68454309	Up		
CPSF6	#####	7	84708213	-2	70638145	0.00828384	0.1092118	-2	69241614	Down	
KDM2A	#####	8	12147763	-2	70609352	0.00829043	0.1092118	-2	69309572	Down	
IGF1R	#####	6	75496363	-2	70567835	0.00829992	0.1092118	-2	69407553	Down	
SDR39U1	0.140154249	8	20486738	2.7055527766	0.00830280	0.1092118	-2	69437185	Up		
P2RX6	0.103139750	7	42186088	2.7044957796	0.00832704	0.1094208	-2	69686571	Up		
PCBP2	0.134975750	11	4558351	2.7035762374	0.00834817	0.1095886	-2	6990346	Up		
CASP1	0.114409999	11	9375085	2.7007739343	0.00841289	0.1098876	-2	70564055	Up		
SOX4	#####	8	06203163	-2	70022423	0.00842564	0.1099445	-2	70693571	Down	
SLC12A6	0	13611725	7	12088413	2.6979340381	0.00847894	0.1102830	-2	71232934	Up	
LDB3	#####	6	81319663	-2	69730344	0.00849367	0.1102830	-2	71381379	Down	
AMMECR	0.105652999	6	17250225	2.6968779608	0.00850362	0.1103029	-2	71481523	Up		
ZNF264	#####	7	43931113	-2	69643222	0.00851406	0.1103291	-2	71586421	Down	
CUL2	0.108465249	7	78742238	2.6931655647	0.00859091	0.1108862	-2	72354742	Up		
SRGN	0.100193249	13	0752169	2.6920624159	0.00861700	0.1111135	-2	7261403	Up		
ZFPL1	-0	1211905	7	84891025	-2	69025595	0.00865989	0.1113378	-2	7303844	Down
OSBPL8	-0	1789555	10	6602623	-2	68944941	0.00867910	0.1114754	-2	7322785	Down
HDAC4	#####	6	15441338	-2	68791147	0.00871584	0.1116189	-2	73588895	Down	
CLK4	0.244176749	7	82180013	2.6855731752	0.00877196	0.1121186	-2	74137506	Up		
NKX2-1	-0	1038685	6	00097175	-2	68410656	0.00880734	0.1121651	-2	74481402	Down
BTNL3	0.104252000	8	03816175	2.6839336768	0.00881151	0.1121651	-2	74521929	Up		
IMP4	0.162715249	8	40533188	2.6822491769	0.00885232	0.1124872	-2	74916701	Up		
LOC100280	0.142361250	7	70912513	2.6807810747	0.00888802	0.1126132	-2	75260592	Up		
NADK	#####	10	3353949	-2	6798146	0.00891160	0.1127798	-2	75486896	Down	
ZNF274	0.152280749	7	91192388	2.6795365352	0.00891839	0.1127798	-2	75551993	Up		
PTGIR	-0	1171555	8	04556775	-2	67564284	0.00901401	0.1136323	-2	76462953	Down
GNL1	-0	18177	6	624968	-2	67507313	0.00902808	0.1136323	-2	76596148	Down
MIR7112	-0	122982	6	51594075	-2	67265452	0.00908803	0.1139353	-2	77161348	Down
MAP1S	-0	240504	6	6498815	-2	67182683	0.00910863	0.1140216	-2	77354673	Down
HLA-E	0.117247999	12	1661903	2.6715177784	0.00911634	0.1140216	-2	77426846	Up		
QTRT1	0.117065000	7	404273	2.6710784524	0.00912730	0.1140216	-2	77529429	Up		
SYNE1	#####	6	28578338	-2	67066147	0.00913771	0.1140216	-2	77626783	Down	
MDH1	0.121261999	9	99639075	2.6683536457	0.00919554	0.1141627	-2	78165365	Up		
NAT6	0.100726999	7	0665715	2.6674878667	0.00921732	0.1141627	-2	78367314	Up		
HNRNPAC	0.164260000	9	13371225	2.6669530130	0.00923079	0.1141627	-2	78492045	Up		
WSB1	#####	10	6511946	-2	66662784	0.00923900	0.1141627	-2	78567867	Down	
ZZEF1	-0	126559	8	29876625	-2	66612108	0.00925179	0.1141627	-2	78686016	Down
PLEC	#####	8	90772463	-2	66602144	0.00925431	0.1141627	-2	78709245	Down	
ADIPOR2	0.118220249	9	07027263	2.6644643292	0.00929375	0.1144336	-2	79072149	Up		
RAB2A	#####	9	31900838	-2	66097297	0.00938272	0.1151532	-2	79885216	Down	
GGPS1	0.171218750	8	50235163	2.6607922645	0.00938734	0.1151532	-2	79927275	Up		
RAMP1	-0	1073115	7	40349775	-2	65950498	0.00942036	0.1152847	-2	80226817	Down
PDCD5	-0	107784	5	985557	-2	65896162	0.00943432	0.1152847	-2	80353217	Down
GJD2	0.114949750	7	70949213	2.6585178527	0.00944574	0.1152847	-2	80456433	Up		
RBM25	0.121314999	8	92410325	2.6580288877	0.00945834	0.1152847	-2	80570146	Up		
KAT6B	0.112671249	7	64847463	2.6579179022	0.00946120	0.1152847	-2	80595954	Up		
CRELD2	0.127936249	8	48127263	2.6573156207	0.00947675	0.1152847	-2	8073599	Up		

MTIF2	0	15342675	7	92831338	2.6519462977	0.00961634	0.1161948	-2	81983241	Up	
NACC2	#####	8	75156613	-2	64464486	0.00980916	0.1170550	-2	83675941	Down	
RANBP3	-0	1333675	7	27740975	-2	64459772	0.00981042	0.1170550	-2	83686857	Down
EXD3	-0	128273	6	63427475	-2	64196085	0.00988092	0.1176818	-2	84297201	Down
ST13	0.101467249	9	75709288	2.6381727240	0.00998301	0.1183597	-2	85173135	Up		
CFAP20	0.131507249	7	17341138	2.6362359470	0.01003558	0.1186608	-2	85620575	Up		
TMBIM6	0.102440749	11	3727071	2.6353057683	0.01006091	0.1188531	-2	85835369	Up		
PDE4B	0.196590250	7	05266338	2.6329635595	0.01012496	0.1193944	-2	86375948	Up		
TNFRSF10	-0	18637	6	75607975	-2	6325298	0.01013687	0.1194015	-2	86476016	Down
FLNA	#####	9	98945288	-2	62906131	0.01023250	0.1202525	-2	8727569	Down	
CCDC93	0	1121635	6	301001	2.6264875074	0.01030399	0.1205562	-2	87868524	Up	
RBM38	#####	7	39082613	-2	62457322	0.01035745	0.1209385	-2	88309134	Down	
ERI2	0.106801000	6	414906	2.6241449035	0.01036945	0.1209708	-2	88407684	Up		
PPP3CA	#####	9	01233688	-2	62363726	0.01038368	0.1210147	-2	88524467	Down	
ADAM28	0.163130750	7	22942363	2.6233519980	0.01039169	0.1210147	-2	88590083	Up		
JUND	#####	10	3399629	-2	62026256	0.01047877	0.1218867	-2	89300336	Down	
CPNE1	#####	7	60975338	-2	6196	0.01049753	0.1218867	-2	89452566	Down	
SFTPB	0.122175000	7	99398525	2.6192577402	0.01050723	0.1218867	-2	8953119	Up		
DDX21	0.172443750	9	09003013	2.6188002876	0.01052021	0.1218867	-2	89636264	Up		
LOC10272	-0	127229	5	960695	-2	61670234	0.01057993	0.1218867	-2	90117953	Down
ADCY7	-0	13422	9	46261325	-2	61637069	0.01058940	0.1218867	-2	90194069	Down
OXSM	0.109165750	6	94689263	2.6162712908	0.01059224	0.1218867	-2	90216882	Up		
FZD2	0.178143250	7	14657963	2.6161778677	0.01059491	0.1218867	-2	90238322	Up		
MKKS	0.153579000	7	59534125	2.6157878636	0.01060606	0.1218867	-2	90327816	Up		
RAB8B	0	18718825	8	85154663	2.6151894242	0.01062319	0.1219520	-2	90465118	Up	
SLC25A11	#####	7	90072888	-2	61461244	0.01063973	0.1219520	-2	90597473	Down	
DNAH3	-0	133463	7	74611875	-2	61285764	0.01069018	0.1222094	-2	90999859	Down
ACSL4	-0	1673305	8	4578975	-2	60959158	0.01078464	0.1227489	-2	91748184	Down
TMEM243	0.123060000	8	6282735	2.6092014177	0.01079598	0.1227489	-2	91837526	Up		
MSRB1	#####	10	8998934	-2	60908409	0.01079939	0.1227489	-2	91864391	Down	
PIGG	0	118148	7	662951	2.6088256947	0.01080690	0.1227489	-2	91923551	Up	
RPL27A	#####	6	78375988	-2	60808931	0.01082835	0.1227489	-2	92092124	Down	
DDIT4	0	102639	6	0739665	2.6075706665	0.01084347	0.1227489	-2	92210826	Up	
ASXL2	-0	165732	9	48995175	-2	60735404	0.01084979	0.1227489	-2	922604	Down
SLC22A7	#####	6	33847113	-2	60352946	0.01096199	0.1237786	-2	9313507	Down	
HCFC1	-0	1084865	7	8593765	-2	60296599	0.01097860	0.1237786	-2	93263842	Down
SPATA5L	0.186186499	6	2206245	2.6006043561	0.01104850	0.1243526	-2	93803307	Up		
ZNF230	0.109632000	5	93695325	2.6002657675	0.01105855	0.1243589	-2	93880617	Up		
SAMD4A	0	1589565	6	457359	2.5988305782	0.01110126	0.1245185	-2	94208219	Up	
TTC13	0.127118000	7	363344	2.5972158995	0.01114949	0.1247391	-2	9457661	Up		
OR10H1	#####	6	40580513	-2	59499089	0.01121625	0.1253790	-2	95083937	Down	
RLF	#####	6	27304413	-2	59303328	0.01127530	0.1256351	-2	95529991	Down	
ROCK1	-0	1160975	10	3181358	-2	59242982	0.01129355	0.1256351	-2	95667435	Down
TMEM223	0.101091749	8	02193738	2.5910609912	0.01133506	0.1256351	-2	95979103	Up		
MYLIP	0.118822000	7	48014575	2.5904051232	0.01135500	0.1257125	-2	96128389	Up		
ADCY9	#####	6	80018713	-2	58920535	0.01139156	0.1257278	-2	96401394	Down	
TOMM20	0.163119749	9	65348563	2.5888932617	0.01140109	0.1257278	-2	9647239	Up		
LOC10272	0.104332249	6	69713963	2.5882868747	0.01141962	0.1257278	-2	96610317	Up		

DCP1A	0.121748999	7	194713	2.5879539609	0.01142980	0.1257278	-2	96686029	Up	
DRAM1	#####	8	24621613	-2	58757187	0.01144150	0.1257509	-2	96772916	Down
UBXN2B	0 1027305	9	065691	2.5827368802	0.01159049	0.1270686	-2	97871443	Up	
SETSIP	0.116320249	10	0931444	2.5815936602	0.01162597	0.1273510	-2	98130935	Up	
KIAA0586	0.101537499	6	7792045	2.5805146866	0.01165955	0.1276122	-2	98375756	Up	
ICA1	0.112710499	6	8936445	2.5792335785	0.01169953	0.1278606	-2	98666329	Up	
ARMCX3	0.158864500	7	969903	2.5786885761	0.01171658	0.1278606	-2	98789907	Up	
IFT57	-0 1267065	5	97616975	-2	57578013	0.01180793	0.1282573	-2	99449017	Down
CPNE7	-0 1107055	7	14688575	-2	57448272	0.01184889	0.1284539	-2	99742834	Down
ARID4B	-0 149519	8	5117275	-2	57431741	0.01185412	0.1284539	-2	99780261	Down
USP25	0 13261275	9	14474963	2.5735670301	0.01187787	0.1285521	-2	99950129	Up	
BICD2	#####	8	60019263	-2	57341167	0.01188280	0.1285521	-2	99985292	Down
ST6GALN	0 1128345	7	42610125	2.5666043151	0.01210037	0.1303676	-3	01524334	Up	
TPST2	-0 163457	8	89231375	-2	56579707	0.01212641	0.1304336	-3	01706612	Down
HLA-DRB	0 106757	9	642937	2.5642945250	0.01217501	0.1307275	-3	02045764	Up	
ITGAX	0.160863749	8	12124638	2.5624010783	0.01223650	0.1309906	-3	0247291	Up	
SLCO4C1	#####	5	24149113	-2	56232474	0.01223899	0.1309906	-3	02490126	Down
ARHGAP20	0.120665749	9	00547213	2.5621573625	0.01224444	0.1309906	-3	02527871	Up	
SPINT1	-0 1564765	6	923073	-2	56146448	0.01226702	0.1309906	-3	026841	Down
GPN3	-0 2001785	6	288062	-2	5611226	0.01227818	0.1309906	-3	02761173	Down
EIF3L	0 10001175	12	0862161	2.5578610923	0.01238509	0.1315191	-3	03496013	Up	
SSR4	0.107885999	10	7724133	2.5577739077	0.01238796	0.1315191	-3	03515645	Up	
EMP3	-0 137376	11	4408703	-2	55598669	0.01244691	0.1317610	-3	0391797	Down
ANXA7	0.113302000	10	198482	2.5545789302	0.01249352	0.1321046	-3	04234708	Up	
MAP3K12	#####	7	15749988	-2	55347711	0.01253011	0.1323847	-3	04482508	Down
AP2B1	#####	7	95325788	-2	55314115	0.01254129	0.1323960	-3	04558049	Down
EGR3	#####	5	55717363	-2	55275046	0.01255430	0.1324266	-3	04645884	Down
COX6A2	-0 108929	6	030218	-2	55205208	0.01257758	0.1325655	-3	04802865	Down
NUP107	0.187139000	7	74475275	2.5516276216	0.01259175	0.1326081	-3	04898258	Up	
ADORA1	#####	6	92445538	-2	55038647	0.01263327	0.1327253	-3	05177116	Down
FADS3	-0 1163085	6	5546315	-2	54618563	0.01277471	0.1337822	-3	06120098	Down
FAM46A	0.144608499	10	0247425	2.5446856275	0.01282556	0.1342074	-3	06456493	Up	
GADD45B	0 14016825	8	26611913	2.5443603075	0.01283661	0.1342159	-3	06529428	Up	
CLINT1	-0 1232865	9	7390845	-2	54330909	0.01287239	0.1344826	-3	06765053	Down
GREB1L	0 10086825	6	67334513	2.5427682196	0.01289083	0.1345395	-3	06886253	Up	
SNRPD1	#####	8	16977013	-2	54236753	0.01290450	0.1345395	-3	06976026	Down
LOC10192	-0 1170675	6	40942775	-2	54188755	0.01292090	0.1345602	-3	0708355	Down
TMEM50E	0.202344500	8	49052875	2.5407351979	0.01296035	0.1346449	-3	07341627	Up	
NDUFB1	#####	10	8146599	-2	54044973	0.01297014	0.1346449	-3	07405545	Down
BCAP29	0 11452075	5	36672988	2.5363318251	0.01311210	0.1355342	-3	08326879	Up	
PRKCA	-0 1134215	6	9458635	-2	53607752	0.01312092	0.1355342	-3	08383736	Down
ADSS	#####	8	26961663	-2	53586659	0.01312823	0.1355342	-3	08430892	Down
BSG	#####	8	34399863	-2	53495362	0.01315993	0.1357545	-3	08634954	Down
TIAL1	0 11975625	9	01174138	2.5344786831	0.01317644	0.1357930	-3	08741087	Up	
MAP4K4	#####	7	86897038	-2	53395284	0.01319475	0.1357930	-3	08858576	Down
GNG10	-0 158516	10	7412103	-2	52673567	0.01344836	0.1379737	-3	10469008	Down
RNASE2	#####	10	4047666	-2	52418444	0.01353906	0.1382788	-3	1103736	Down
LAMP5	0 120808	7	258353	2.5222809350	0.01360709	0.1387287	-3	11461097	Up	

LAMP2	0.1407857495	9	65453088	2.5208764785	0.013657475	0.13877185	-3	11773567	Up
HIPK3	-0.2678325	7	8584265	-2.51936908	0.013711748	0.13898840	-3	12108777	Down
NDUFB5	0.1138917495	10	0678106	2.5183957454	0.013746895	0.13905867	-3	12325134	Up
AOAH	0.1241184995	10	2978765	2.5182525774	0.013752065	0.13905867	-3	12356952	Up
ZNF574	0.10614975	7	18234538	2.5181382234	0.013756205	0.13905867	-3	12382365	Up
TNFSF8	0.1309362500	8	42070438	2.5143715486	0.013893058	0.14010335	-3	13218897	Up
SERPINF1	0.2562237500	7	92085913	2.5130878651	0.013939970	0.14015935	-3	13503744	Up
HIST2H4E	0.2517540000	7	86468325	2.5100062003	0.014053195	0.14020267	-3	14187058	Up
CD33	0.1288475000	9	869244	2.5066655278	0.014176855	0.14124035	-3	14927	Up
NAXD	0.1343912495	7	86803113	2.5056705585	0.014213875	0.14128685	-3	15147219	Up
NEK3	0.107798	6	86809375	2.5049690170	0.014240034	0.14139320	-3	15302449	Up
BEST1	0.12556975	7	02066938	2.5044114445	0.014260852	0.14143185	-3	15425796	Up
MPPE1	0.1068687500	9	22277088	2.5038553923	0.014281640	0.14147650	-3	15548784	Up
SLC25A2C	0.1524609995	8	444556	2.5026280675	0.014327622	0.14177205	-3	15820162	Up
PLCH2	-0.1005455	6	002582	-2.50114083	0.014383520	0.14197565	-3	1614886	Down
TRIM39-R	0.1013460000	6	92006225	2.5002342907	0.014417685	0.14212650	-3	16349133	Up
MAZ	#####	7	97955388	-2.49870308	0.014475565	0.14237560	-3	16687272	Down
LOC10272	#####	7	13880863	-2.49784163	0.014508218	0.14245155	-3	16877428	Down
PQLC3	0.1056377500	7	66003138	2.4973527606	0.014526778	0.14245155	-3	16985317	Up
HIST1H2E	0.1384005	7	09877375	2.4969591179	0.014541738	0.14249165	-3	17072177	Up
DSPP	#####	5	29063788	-2.49579979	0.014585878	0.14251035	-3	17327922	Down
MRPL16	0.1154949995	8	150152	2.4957660694	0.014587164	0.14251035	-3	1733536	Up
ZNF185	0.1803827500	9	25331013	2.4938014936	0.014662244	0.14277030	-3	17768508	Up
PARP8	0.2005739995	9	22366425	2.4937886364	0.014662730	0.14277030	-3	17771341	Up
LBP	0.1087167495	7	27945763	2.4933601028	0.014679160	0.14277030	-3	17865785	Up
TMX2	0.1019549995	8	664557	2.4924444782	0.014714305	0.14283715	-3	18067532	Up
MED4	#####	7	97379638	-2.49225761	0.014721490	0.14283715	-3	18108699	Down
CDK10	#####	7	40063113	-2.49065823	0.014783090	0.14286315	-3	18460929	Down
RAB33B	#####	5	95741313	-2.49009276	0.014804920	0.14286315	-3	18585416	Down
XPOT	-0.156786	7	09445575	-2.48995126	0.014810394	0.14286315	-3	18616563	Down
LST1	0.1073882495	11	8419979	2.4898415127	0.014814635	0.14286315	-3	18640719	Up
PDK2	0.11327475	7	33069088	2.4891508002	0.014841365	0.14286315	-3	18792732	Up
KCNJ2	#####	7	54047613	-2.48807155	0.014883205	0.14316075	-3	19030184	Down
MICU2	#####	9	11510913	-2.48710653	0.014920710	0.14337705	-3	19242429	Down
MRPS22	0.1106509995	8	110398	2.4863821089	0.014948928	0.14347685	-3	19401711	Up
SNX6	0.1075847495	8	68892938	2.4833072293	0.015069205	0.14431410	-3	2007736	Up
CTC1	0.1039010000	6	914588	2.4826874002	0.015093558	0.14439875	-3	20213471	Up
KMO	0.1518575000	8	170659	2.4790153163	0.015238545	0.14519285	-3	21019242	Up
HEBP1	0.1261632495	8	92140763	2.4785666406	0.015256345	0.14525685	-3	21117626	Up
DARS	0.1458487495	7	94196613	2.4777505377	0.015288770	0.14537875	-3	21296539	Up
FABP5	-0.1608335	6	92465325	-2.47578464	0.015367135	0.14578195	-3	21727315	Down
GCA	#####	10	7588111	-2.47073566	0.015570045	0.14636865	-3	22832333	Down
MED1	-0.1831955	7	89876075	-2.46955327	0.015617912	0.14639648	-3	23090832	Down
GNG5	#####	11	4032404	-2.4695099	0.015619670	0.14639648	-3	23100313	Down
BTBD2	#####	7	00851963	-2.46667348	0.015735040	0.14697218	-3	23719985	Down
HLX	-0.1209795	8	180152	-2.46454488	0.015822122	0.14742935	-3	2418462	Down
PTPN6	-0.253166	10	1772963	-2.46367291	0.015857915	0.14755295	-3	24374858	Down
ADAM9	-0.228506	8	323856	-2.46265936	0.015899615	0.14783595	-3	24595911	Down

SF3A3	-0	1130015	7	07196025	-2	46183963	0.01593341	0.1479234	-3	24774635	Down
RAP2B	-0	1253625	9	57011575	-2	46075914	0.01597806	0.1479723	-3	25010136	Down
TNPO1	-0	2033345	10	0993398	-2	46009134	0.01600571	0.1479723	-3	25155644	Down
ZDHC6	0.103773500	(8	23898075	2.4599549756	0.01601136	0.1479723	-3	25185353	Up		
CDKN2D	-0	147815	8	0372315	-2	45824076	0.01608256	0.1482096	-3	25558693	Down
SHARPIN	0.102555250	(6	67818538	2.4581438056	0.01608659	0.1482096	-3	25579802	Up		
LONRF1	#####	5	82490113	-2	45813724	0.01608687	0.1482096	-3	25581231	Down	
SAMSN1	-0	177109	9	541359	-2	45770181	0.01610500	0.1482724	-3	25676026	Down
SREBF2	-0	105177	7	82396375	-2	45642947	0.01615809	0.1486567	-3	25952934	Down
WSB2	-0	12504	9	0558345	-2	45509986	0.01621374	0.1487422	-3	26242176	Down
TTC1	0.102145999	(7	843496	2.4547306803	0.01622923	0.1487422	-3	26322463	Up		
F5	#####	8	57762988	-2	4539227	0.01626316	0.1487422	-3	26498142	Down	
SERBP1	0.114938499	(10	6002543	2.4482775236	0.01650200	0.1503426	-3	27724193	Up		
SIRPB1	#####	7	55702638	-2	4474376	0.01653780	0.1503551	-3	27906406	Down	
RANBP1	0.145881750	(8	63380113	2.4458293928	0.01660655	0.1507709	-3	28255142	Up		
FBXL14	-0	1358765	7	82690375	-2	44327184	0.01671640	0.1513487	-3	28809338	Down
DPEP2	0.147166249	(9	01778763	2.4407690451	0.01682453	0.1519893	-3	29351187	Up		
S100A12	-0	152861	12	1772183	-2	44056075	0.01683356	0.1519893	-3	29396261	Down
ADA	0.140650250	(7	10742238	2.4396655701	0.01687241	0.1520257	-3	29589936	Up		
SYNGR1	#####	7	73728938	-2	43860572	0.01691850	0.1522316	-3	29819159	Down	
BHLHE40	#####	8	94653413	-2	43775021	0.01695579	0.1524053	-3	30004126	Down	
ADAM15	-0	133472	6	8807385	-2	43448371	0.01709885	0.1530885	-3	30709853	Down
GRIK1-AS	0.283976749	(7	73717338	2.4343706577	0.01710382	0.1530885	-3	30734263	Up		
COX20	#####	7	12871463	-2	43418852	0.01711183	0.1530885	-3	30773587	Down	
PAN2	0.107215749	(7	62738138	2.4332318977	0.01715396	0.1530885	-3	30980091	Up		
LMBR1L	#####	7	81500813	-2	43256167	0.01718353	0.1532480	-3	3112473	Down	
NIT1	0.125402749	(8	53100263	2.4305377131	0.01727310	0.1538188	-3	31561304	Up		
ABCA1	0.139152750	(6	33397738	2.4293625251	0.01732530	0.1538188	-3	31814652	Up		
BTAF1	0.164026499	(7	99003025	2.4253704534	0.01750368	0.1549098	-3	32674484	Up		
MAP3K7	0.119140000	(7	84141625	2.4241388873	0.01755904	0.1549098	-3	32939501	Up		
CNNM3	#####	7	21459038	-2	4235593	0.01758515	0.1550357	-3	33064179	Down	
HSPB11	-0	1379455	8	69579375	-2	42250809	0.01763259	0.1553494	-3	33290249	Down
TMEM8A	#####	6	73675938	-2	42110099	0.01769627	0.1555831	-3	33592722	Down	
DEF6	#####	7	25797363	-2	4195479	0.01776679	0.1559027	-3	33926401	Down	
AIM2	0.229389999	(7	36656375	2.4191575028	0.01778456	0.1559187	-3	34010249	Up		
CCDC22	#####	7	35819913	-2	41898497	0.01779242	0.1559187	-3	34047301	Down	
ASNS	0.120294250	(5	45696388	2.4180013465	0.01783727	0.1561328	-3	34258494	Up		
PPID	0.140190750	(8	78378913	2.4179266276	0.01784068	0.1561328	-3	34274534	Up		
SLC7A7	0.119383249	(11	7327094	2.4162809257	0.01791596	0.1563738	-3	34627708	Up		
TXNIP	0.104977250	(12	6058499	2.4153984621	0.01795645	0.1564648	-3	34817003	Up		
SLC30A1	0.128520750	(9	95388163	2.4152727296	0.01796222	0.1564648	-3	34843969	Up		
HIST1H2A	0.109873750	(7	73092963	2.4141772386	0.01801261	0.1567914	-3	35078867	Up		
ITGB3BP	0.165157250	(6	26931488	2.4134374510	0.01804671	0.1567914	-3	35237442	Up		
TSPAN9	#####	6	97379563	-2	4129559	0.01806893	0.1568414	-3	35340641	Down	
ACAA2	0.117375000	(8	85330575	2.4125159894	0.01808926	0.1568414	-3	35434902	Up		
LTF	-0	6503625	9	82655325	-2	41131801	0.01814471	0.1570105	-3	35691519	Down
SAC3D1	#####	6	05032538	-2	41000559	0.01820563	0.1572201	-3	35972525	Down	
GZMB	0.310919250	(9	24589213	2.4071955408	0.01833670	0.1578622	-3	3657375	Up		

FASTKD1	0.1890374995	7	6816395	2.4066418510	0.01836262	0.1578622	-3	36692144	Up
LOC10192	-0 10778	9	16716875	-2 40557773	0.01841253	0.1581787	-3	36919616	Down
E2F3	-0 177727	7	97473025	-2 40510898	0.01843456	0.1581862	-3	37019792	Down
EXOC3	#####	8	45997663	-2 40504524	0.01843755	0.1581862	-3	37033412	Down
TBK1	0.1081962495	8	44272488	2.4015910200	0.01860061	0.1590643	-3	37771068	Up
CAMP	#####	9	15014713	-2 40024419	0.01866453	0.1594029	-3	3805844	Down
ACTL6A	-0 1185045	6	08963175	-2 39679369	0.01882919	0.1601713	-3	38794036	Down
LCN2	-0 6263145	8	52920475	-2 3958094	0.01887640	0.1603759	-3	39003705	Down
TMEM140	0 1566095	8	06897575	2 394259661	0.01895094	0.1609049	-3	39333674	Up
IDE	0.1403134995	7	657193	2.3889814861	0.01920678	0.1625893	-3	40456119	Up
TMEM230	0 13436525	9	77532738	2.3887632186	0.01921743	0.1625893	-3	40502489	Up
SKI	-0 1145845	7	19248	-2 38706575	0.01930040	0.1628890	-3	40862988	Down
SNORA21	0.132599750	12	2677369	2.3844094804	0.01943088	0.1637114	-3	41426667	Up
CTBP1	#####	9	58265863	-2 38414469	0.01944393	0.1637114	-3	41482827	Down
TUBGCP2	-0 142229	7	6883995	-2 38230652	0.01953473	0.1640544	-3	41872546	Down
SLC16A7	#####	6	60685913	-2 38226336	0.01953687	0.1640544	-3	41881693	Down
POTEKP	-0 11183	8	36901175	-2 38205319	0.01954728	0.1640544	-3	41926236	Down
CSTF1	0 10357525	6	70258188	2.3816233531	0.01956858	0.1641280	-3	42017322	Up
RASA4B	-0 1868435	6	62051275	-2 37973385	0.01966246	0.1645151	-3	42417555	Down
CHD8	#####	7	93004863	-2 37936785	0.01968069	0.1645416	-3	42495049	Down
ATP5E	#####	11	6386804	-2 37795362	0.01975127	0.1650264	-3	42794391	Down
MTHFD1	0 12640725	7	37563088	2.3760194383	0.01984817	0.1656581	-3	4320354	Up
ALAS1	#####	8	08759438	-2 37593987	0.01985217	0.1656581	-3	43220367	Down
ZSWIM8	0.1855709995	7	7976095	2.3756878142	0.01986483	0.1656583	-3	43273662	Up
JADE1	0.1079487495	7	38661388	2.3748057304	0.01990920	0.1658765	-3	43460137	Up
GABPA	0.1223122495	6	29475013	2.3721774987	0.02004191	0.1663935	-3	44015397	Up
CKAP4	-0 2054445	9	004774	-2 37024139	0.02014017	0.1668937	-3	44424094	Down
EZH1	0.115445000	8	5795725	2.3698151246	0.02016186	0.1668937	-3	44514037	Up
THAP12	#####	8	42453538	-2 36854136	0.02022681	0.1672893	-3	4478272	Down
SNRPE	-0 1157095	10	113052	-2 3653769	0.02038896	0.1679973	-3	45449679	Down
SCAF11	0 183793	9	5989625	2.3648624834	0.02041542	0.1681096	-3	45558028	Up
TTC37	#####	6	86784788	-2 36208445	0.02055889	0.1691846	-3	46142796	Down
DR1	#####	8	94005338	-2 35996993	0.02066868	0.1695507	-3	46587499	Down
RIN2	-0 154982	9	317236	-2 35660051	0.02084472	0.1699460	-3	47295408	Down
UBE2D1	-0 1749075	9	94996475	-2 35632907	0.02085896	0.1699460	-3	473524	Down
C8orf44-S	#####	8	11885388	-2 3535505	0.02100521	0.1708983	-3	47935456	Down
MIR1248	0 10561075	11	7751384	2.3524406371	0.02106389	0.1710837	-3	48168183	Up
MGAT4B	-0 1674025	7	23713675	-2 35149577	0.02111395	0.1712779	-3	48366238	Down
TMEM260	#####	7	38039713	-2 34887526	0.02125336	0.1721955	-3	48915166	Down
HIST1H1C	0.113644000	6	13053975	2.3482481017	0.02128684	0.1723602	-3	49046461	Up
PPM1D	0 1533195	7	6168635	2.3459061710	0.02141229	0.1730287	-3	49536472	Up
NDUFA8	0.1554122495	8	57141363	2.3455404562	0.02143194	0.1730287	-3	49612954	Up
BTG2	#####	10	3209089	-2 34331387	0.02155192	0.1736294	-3	50078377	Down
PRKAA1	0.1441927495	6	82885038	2.3405801058	0.02170004	0.1740919	-3	5064929	Up
LARP7	0.179120000	7	9889975	2.3398679471	0.02173877	0.1742422	-3	5079792	Up
TBCD	#####	7	34013763	-2 33925901	0.02177194	0.1742422	-3	50924978	Down
ITPR1	-0 1014815	6	97927475	-2 33752754	0.02186649	0.1745156	-3	51286099	Down
APOLD1	0.1322657495	8	97839388	2.3350436080	0.02200278	0.1748080	-3	5180375	Up

CLSTN1	-0 1277625	7 66391925	-2 33100501	0.02222597	0.1760474	-3 52644377	Down
SLC4A2	#####	6 80492063	-2 32381459	0.02262831	0.1782420	-3 54137923	Down
CRISP3	#####	6 05925463	-2 32238866	0.02270886	0.1784696	-3 54433631	Down
GRINA	-0 313217	7 31284225	-2 32182888	0.02274055	0.1786115	-3 54549675	Down
MILR1	-0 1157655	6 28614175	-2 32128684	0.02277127	0.1787456	-3 54662019	Down
SRC	-0 1002715	7 937149	-2 31946789	0.02287464	0.1793421	-3 55038847	Down
7-3月	-0 168068	8 88056275	-2 31761362	0.02298045	0.1797414	-3 55422729	Down
MMP8	#####	7 04227913	-2 31658938	0.02303908	0.1798778	-3 55634659	Down
ANXA6	-0 170126	8 92566075	-2 31593441	0.02307664	0.1799716	-3 55770139	Down
MPV17	0 110438	8 41242125	2.3120236700	0.02330203	0.1803562	-3 56578379	Up
ARG1	-0 3622925	6 53890275	-2 3114221	0.02333688	0.1804340	-3 56702601	Down
PIK3CG	0.127638999	7 659532	2.3112818638	0.02334501	0.1804340	-3 56731556	Up
AES	-0 1820765	7 80135925	-2 31077272	0.02337454	0.1804340	-3 56836664	Down
ZNF271P	0.148973749	5 89292788	2.3105792850	0.02338577	0.1804340	-3 56876593	Up
HSPA14	0.105600750	7 55075413	2.3091387497	0.02346955	0.1809423	-3 5717385	Up
PARD6A	-0 11278	7 06924875	-2 30897204	0.02347927	0.1809423	-3 5720824	Down
IMMT	0 1146285	8 86247425	2.3076665697	0.02355545	0.1812824	-3 57477471	Up
GVINP1	-0 1123635	7 11171575	-2 30726804	0.02357875	0.1812824	-3 57559633	Down
YIPF6	0.113645500	8 1492365	2.3070116228	0.02359375	0.1812913	-3 57612492	Up
BTN3A2	0 164819	10 705113	2.3051496995	0.02370294	0.1814667	-3 57996156	Up
CHCHD7	#####	7 80671238	-2 30452938	0.02373942	0.1814667	-3 58123919	Down
NASP	0.121572249	5 85047363	2.3018922325	0.02389504	0.1820976	-3 58666736	Up
APOE	-0 108164	7 442324	-2 30112919	0.02394024	0.1820976	-3 58823696	Down
FAM162A	0 115684	8 39220675	2.3005861012	0.02397245	0.1821712	-3 58935383	Up
OSER1	0.144051750	7 83173763	2.3000216659	0.02400597	0.1822145	-3 59051436	Up
PPFIA1	-0 1343395	8 05576625	-2 29895175	0.02406963	0.1823028	-3 59271353	Down
VDAC1	#####	8 74279738	-2 29845733	0.02409910	0.1823028	-3 59372949	Down
IARS	0 132223	8 46930675	2.2981623760	0.02411669	0.1823028	-3 59433547	Up
SEC31A	#####	9 77443838	-2 29795725	0.02412893	0.1823028	-3 59475687	Down
P2RX5	0.127979250	7 24036588	2.2975205691	0.02415501	0.1823947	-3 59565385	Up
LRMP	0.109378749	9 72563638	2.2941082134	0.02435967	0.1833061	-3 60265803	Up
CNTRL	0.113427750	7 41493113	2.2938279253	0.02437654	0.1833278	-3 60323295	Up
KHNYN	0.123813749	8 30612538	2.2927175538	0.02444351	0.1837260	-3 60550989	Up
PPIF	#####	8 55850513	-2 29164446	0.02450838	0.1839684	-3 60770947	Down
TOB1	#####	8 31019188	-2 29148734	0.02451789	0.1839684	-3 60803147	Down
BCL10	#####	8 96781713	-2 28997085	0.02460986	0.1844562	-3 61113818	Down
EPOR	0.117423000	10 3227485	2.2890325602	0.02466691	0.1846745	-3 6130595	Up
MAP3K1	0 16975075	7 12585688	2.2878987761	0.02473601	0.1849694	-3 6153802	Up
HEXB	0 117804	10 5836063	2.2869895440	0.02479154	0.1850311	-3 61724056	Up
FOXN2	0.102155499	6 447552	2.2868389707	0.02480075	0.1850311	-3 61754858	Up
USO1	0.114393250	9 13301488	2.2854697928	0.02488461	0.1853401	-3 62034863	Up
NXF1	0.122762499	9 65284025	2.2829662513	0.02503860	0.1859637	-3 62546475	Up
TPM4	#####	7 75245613	-2 28295477	0.02503931	0.1859637	-3 62548819	Down
P2RY13	0.125383250	10 4821531	2.2815124943	0.02512840	0.1859837	-3 62843333	Up
RAB5B	-0 1081965	7 326685	-2 28073783	0.02517637	0.1859837	-3 63001452	Down
MTMR1	0.116080000	8 47342025	2.2784947376	0.02531573	0.1864575	-3 63459034	Up
UBA3	-0 1043735	9 6061855	-2 27843763	0.02531928	0.1864575	-3 63470678	Down
RRN3P1	0.106385250	8 17976638	2.2763112935	0.02545203	0.1867005	-3 6390407	Up

PPP1R15A	-0	2038165	8	35217325	-2	27518778	0.02552242	0.1870074	-3	64132922	Down	
ADRB2	#####		8	43878063	-2	27330163	0.02564097	0.1874566	-3	64516897	Down	
UBTF	#####	6	87538638		-2	2726764	0.02568037	0.1876400	-3	64644118	Down	
IPCEF1	#####	6	53824288		-2	27140635	0.02576058	0.1880264	-3	64902452	Down	
FUS	0.109598749	9	36221288		2.2707882594	0.02579970	0.1880264	-3	65028127	Up		
EIF4G1	#####	8	09656938		-2	27070419	0.02580502	0.1880264	-3	6504522	Down	
CLEC4A	0.136886750	10	7162596		2.2672749729	0.02602302	0.1885664	-3	65741916	Up		
AFF1	#####	8	95839263		-2	26661386	0.02606524	0.1885664	-3	65876124	Down	
FADS2	#####	6	21739038		-2	2664081	0.02607839	0.1885664	-3	65917889	Down	
DGUOK	0.101470500	8	70938225		2.2660944725	0.02609844	0.1885664	-3	65981539	Up		
SH2B2	#####	8	15723763		-2	26489819	0.02617507	0.1888324	-3	66224255	Down	
PTPRC	#####	11	7723376		-2	26302963	0.02629515	0.1890740	-3	66603146	Down	
SEC23B	0	1229555	8	405484		2.2589247006	0.02656066	0.1902522	-3	67434548	Up	
NECAP1	#####	7	80598663		-2	25836834	0.02659683	0.1903140	-3	6754713	Down	
PAICS	0.111896249	7	10926863		2.2534586769	0.02691787	0.1915540	-3	68539572	Up		
CIRBP	0	11249025	9	48812963		2.2524078801	0.02698702	0.1919039	-3	68751734	Up	
DENND2I	0	1248415	7	798573		2.2495221141	0.02717773	0.1925665	-3	69333944	Up	
METTL18	0.113039499	6	11684675		2.2484078842	0.02725168	0.1928211	-3	69558567	Up		
SFPQ	#####	9	96031838		-2	24799043	0.02727943	0.1928211	-3	696427	Down	
VAT1	-0	102885	9	2813235		-2	2474861	0.02731300	0.1928989	-3	69744321	Down
PPP1R14B	0.121242999	6	8526575		2.2466616616	0.02736794	0.1929893	-3	69910401	Up		
RRAS	-0	11169	7	26494725		-2	24465689	0.02750194	0.1929893	-3	70314032	Down
HNRNPK	#####	11	3231761		-2	24463158	0.02750364	0.1929893	-3	70319127	Down	
PDGFA	-0	1071155	6	06955825		-2	24411902	0.02753799	0.1929893	-3	7042227	Down
LOC40131	0	1444525	7	0725065		2.2440515210	0.02754252	0.1929893	-3	70435853	Up	
MEPCE	-0	1211575	8	41371925		-2	24335762	0.02758910	0.1930794	-3	70575452	Down
PAK2	-0	132126	9	2042425		-2	24254878	0.02764348	0.1932535	-3	7073813	Down
FLVCR2	#####	7	81184413		-2	24187868	0.02768860	0.1934658	-3	70872863	Down	
CD1D	0.180620999	10	0351248		2.2384657186	0.02791942	0.1939408	-3	7155854	Up		
FOSB	-0	30185	7	1027375		-2	23620952	0.02807294	0.1944602	-3	72011317	Down
SNORD10	-0	1614115	9	42283925		-2	2357113	0.02810694	0.1945214	-3	72111247	Down
DEFA4	#####	8	42016788		-2	23514505	0.02814563	0.1946202	-3	72224798	Down	
PLEK	#####	10	2351406		-2	23241742	0.02833263	0.1954500	-3	72771417	Down	
PTGES2	-0	138825	7	77798825		-2	23189316	0.02836870	0.1954500	-3	72876412	Down
HK3	-0	1763915	10	457863		-2	22940928	0.02854014	0.1964444	-3	73373573	Down
PPM1G	-0	1122665	7	19587325		-2	22454785	0.02887830	0.1976412	-3	74345202	Down
CYTIP	#####	9	57289888		-2	22447861	0.02888314	0.1976412	-3	74359028	Down	
GUSBP3	-0	413975	7	21490225		-2	22368736	0.02893852	0.1977516	-3	74516991	Down
SEC23A	-0	136237	7	80964525		-2	2235085	0.02895105	0.1977516	-3	7455269	Down
FBXO38	#####	7	99027038		-2	22236884	0.02903101	0.1979881	-3	74780105	Down	
MIR3190	0.105354499	7	59189925		2.2214172406	0.02909792	0.1981689	-3	74969915	Up		
SLC2A3	#####	9	29049338		-2	22030343	0.02917641	0.1982828	-3	7519199	Down	
CLEC7A	0.121968750	10	9029846		2.2201648357	0.02918619	0.1982828	-3	75219616	Up		
SLC1A4	-0	106794	7	52617775		-2	22003568	0.02919530	0.1982828	-3	75245359	Down
JMJD6	#####	7	47918663		-2	21921776	0.02925309	0.1984696	-3	75408359	Down	
PTK2B	#####	8	20508113		-2	21719956	0.02939611	0.1986959	-3	75810331	Down	
NDUFAF1	0.105501250	7	70355663		2.2148530014	0.02956317	0.1990770	-3	76277298	Up		
FGR	-0	1291035	11	5914513		-2	21432478	0.02960089	0.1991789	-3	76382354	Down

SEC24D	#####	5	94779063	-2	21297141	0.02969773	0.1995231	-3	76651422	Down
PTPRA	-0 1146335	6	760838	-2	21035994	0.02988537	0.1997870	-3	77170207	Down
CREB3L2	-0 1293725	8	17104025	-2	2103403	0.02988679	0.1997870	-3	77174106	Down
TWF2	#####	8	52514288	-2	20980013	0.02992573	0.1997870	-3	77281347	Down
CNTFR	#####	7	08467538	-2	20940959	0.02995392	0.1997870	-3	77358868	Down
RCOR1	-0 1230115	8	542679	-2	20879237	0.02999851	0.1998923	-3	77481357	Down
ZNF148	-0 1189425	8	419416	-2	20763444	0.03008232	0.2000550	-3	77711071	Down
ARHGEF6	0.100235749	10	2370789	2.2034940112	0.03038368	0.2014456	-3	78531596	Up	
DNAJB6	0.108656249	6	79333813	2.2031517130	0.03040871	0.2015064	-3	78599369	Up	
HLA-DPB	0 14455725	11	9536211	2.2027379169	0.03043899	0.2015064	-3	78681287	Up	
POR	#####	7	01266538	-2	2016898	0.03051582	0.2017107	-3	78888719	Down
NFKB1	0.119456250	8	61761163	2.2016867739	0.03051604	0.2017107	-3	78889318	Up	
HIKESHI	#####	6	25851538	-2	20095252	0.03056996	0.2017821	-3	79034582	Down
TNF	-0 1030555	6	933694	-2	20062246	0.03059423	0.2017821	-3	79099866	Down
PMS1	0.127515249	6	74074813	2.1970423826	0.03085852	0.2025762	-3	79807435	Up	
MEF2A	0.137255000	8	725817	2.1969757813	0.03086345	0.2025762	-3	79820589	Up	
H6PD	-0 118091	7	6309225	-2	19461548	0.03103881	0.2028995	-3	80286513	Down
UBA1	-0 18921	9	667036	-2	19297267	0.03116138	0.2031090	-3	80610543	Down
CCNL1	0.129188499	10	0386028	2.1926792786	0.03118331	0.2031090	-3	8066839	Up	
PMAIP1	-0 221035	9	449859	-2	19174939	0.03125292	0.2031090	-3	80851687	Down
TBXAS1	0 13097675	9	60741363	2.1911581786	0.03129724	0.2031185	-3	80968188	Up	
ATF1	-0 1841885	8	88200175	-2	19071196	0.03133073	0.2031185	-3	81056101	Down
CDC34	-0 1278685	6	9131635	-2	19031965	0.03136020	0.2031185	-3	81133378	Down
CEACAM1	-0 6798795	7	552982	-2	18867021	0.03148438	0.2034913	-3	81458154	Down
VRTN	#####	6	58908888	-2	18767615	0.03155942	0.2038757	-3	8165378	Down
RAP1A	-0 107233	10	9106228	-2	1865869	0.03164183	0.2040765	-3	81868051	Down
MON2	0.104405750	9	15333138	2.1860931877	0.03167924	0.2040765	-3	81965139	Up	
SLK	-0 140063	7	87771975	-2	1858254	0.03169955	0.2040765	-3	82017792	Down
HNRNPH1	-0 170098	12	2006955	-2	18512555	0.03175268	0.2042179	-3	82155368	Down
MAN2B2	-0 1050925	7	4148485	-2	1842393	0.03182007	0.2043457	-3	82329534	Down
CANT1	#####	8	68264088	-2	18407229	0.03183279	0.2043457	-3	82362348	Down
ESYT1	#####	8	73362163	-2	18073728	0.03208760	0.2045030	-3	83017137	Down
AKAP13	-0 1306875	10	1640928	-2	18025218	0.03212482	0.2045030	-3	83112305	Down
ZNHIT3	0 13928475	8	19975338	2.1780711072	0.03229259	0.2050307	-3	83539971	Up	
CNPPD1	-0 123051	8	30751325	-2	17586691	0.03246293	0.2054574	-3	83971787	Down
LOC10193	#####	9	28467513	-2	17502595	0.03252812	0.2056713	-3	84136433	Down
DDA1	-0 11822	7	34949825	-2	17343468	0.03265179	0.2058657	-3	84447826	Down
GMFG	0.114184749	11	2910239	2.1730315074	0.03268319	0.2059560	-3	8452669	Up	
MYO1E	#####	6	46345438	-2	16982714	0.03293369	0.2065201	-3	85153032	Down
SAP25	0.123222750	7	90292488	2.1694585363	0.03296261	0.2065201	-3	85225029	Up	
PTPN4	0.110916250	6	65406288	2.1664838567	0.03319682	0.2075950	-3	85805657	Up	
CAPRIN2	0.103249250	6	98071238	2.1657528050	0.03325460	0.2077580	-3	85948243	Up	
KLF2	-0 159597	11	0448375	-2	16192265	0.03355877	0.2088615	-3	86694589	Down
HIST1H2E	0.152228750	6	93736163	2.1614116852	0.03359953	0.2088947	-3	86794068	Up	
ACTA2	-0 135877	7	517425	-2	16131242	0.03360745	0.2088947	-3	86813391	Down
MNT	0.103970250	8	77972738	2.1612562238	0.03361194	0.2088947	-3	8682433	Up	
RGS19	-0 108087	10	2264985	-2	15997218	0.03371459	0.2092922	-3	8707421	Down
SERPINB	0.116609000	9	24576	2.1598567456	0.03372383	0.2092922	-3	87096667	Up	

MFSD5	#####	7	84869863	-2	156568	0.03398806	0.2103342	-3	8773604	Down
ZBTB1	#####	8	04891763	-2	15464739	0.03414320	0.2106663	-3	88109031	Down
CHERP	#####	8	05917738	-2	15438488	0.03416446	0.2106663	-3	88159989	Down
ARFGAP3	-0 1078075	8	371332	-2	15371667	0.03421861	0.2106663	-3	88289675	Down
8-3月	#####	6	89646038	-2	14947359	0.03456420	0.2120762	-3	89112342	Down
SECISBP2	#####	7	13090788	-2	14931567	0.03457712	0.2120762	-3	89142931	Down
P2RY14	0.190503500	6	73631375	2.1469446751	0.03477161	0.2128705	-3	89601973	Up	
PAPSS1	#####	10	1149659	-2	14557393	0.03488449	0.2133621	-3	89867155	Down
GIMAP5	-0 1101225	6	831668	-2	14487277	0.03494235	0.2136163	-3	90002741	Down
SCP2	#####	10	1293141	-2	14273743	0.03511908	0.2141969	-3	9041542	Down
RSRP1	0.150553750	10	8764824	2.1382080485	0.03549652	0.2149243	-3	9128957	Up	
HSPA1L	-0 1659875	9	90940125	-2	13804052	0.03551055	0.2149243	-3	91321872	Down
HR	#####	6	91429788	-2	13725706	0.03557622	0.2151819	-3	91472898	Down
RPE	0.101171500	7	3195085	2.1356801352	0.03570871	0.2155851	-3	91776732	Up	
CIB1	0.112877749	9	11447513	2.1346153853	0.03579841	0.2158283	-3	9198177	Up	
PCF11	#####	7	29762913	-2	13398122	0.03585193	0.2158788	-3	92103848	Down
RNH1	-0 117433	10	0522475	-2	13379036	0.03586805	0.2158788	-3	92140582	Down
NUCKS1	-0 155309	8	386165	-2	13373542	0.03587269	0.2158788	-3	92151155	Down
TTC3P1	0.132256250	8	89629988	2.1322163652	0.03600123	0.2161362	-3	92443414	Up	
GPR183	#####	7	96104513	-2	12990931	0.03619723	0.2163412	-3	92886927	Down
QSOX1	-0 122955	7	842271	-2	12929266	0.03624977	0.2164479	-3	93005401	Down
RNF141	0 137229	7	913524	2.1291181407	0.03626465	0.2164479	-3	93038925	Up	
SIRPA	-0 162465	8	9902975	-2	1288656	0.03628620	0.2164779	-3	93087432	Down
LOC10272	#####	6	94041388	-2	12794222	0.03636507	0.2168497	-3	93264747	Down
PRDX1	0.107550249	10	7526236	2.1245900475	0.03665265	0.2177715	-3	93907887	Up	
LRRC40	-0 1724515	7	332277	-2	12414226	0.03669121	0.2177869	-3	9399373	Down
HOMER3	-0 138871	8	020962	-2	12347585	0.03674867	0.2177869	-3	94121454	Down
HCLS1	#####	11	4675671	-2	12343787	0.03675194	0.2177869	-3	94128732	Down
AZI2	#####	7	92256813	-2	12302565	0.03678753	0.2177869	-3	9420772	Down
CCR1	#####	10	9146739	-2	12301759	0.03678822	0.2177869	-3	94209264	Down
STX7	0.115297250	9	59243588	2.1198693530	0.03706097	0.2189070	-3	94812059	Up	
LTBP1	-0 142358	7	5802425	-2	11709784	0.03730254	0.2199372	-3	95342065	Down
PLEKHO1	-0 171986	9	520137	-2	11543546	0.03744808	0.2202996	-3	9565967	Down
LCP2	0 11900475	9	62695713	2.1111706467	0.03782373	0.2218500	-3	96473469	Up	
ORM1	-0 1793955	5	77264825	-2	11109798	0.03783016	0.2218500	-3	96487322	Down
PDCD1	-0 1030555	7	1095325	-2	10479553	0.03839134	0.2239597	-3	97687224	Down
POLI	0.113385499	5	581204	2.1011322458	0.03872082	0.2248588	-3	98383194	Up	
EZR	-0 152067	8	85937875	-2	09954274	0.03886455	0.2252136	-3	98684841	Down
NXT2	0.159437749	7	77958663	2.0986567508	0.03894486	0.2254603	-3	98852891	Up	
ETS2	0.121944749	8	23057638	2.0944000817	0.03933272	0.2268036	-3	9965939	Up	
OAT	-0 1178365	9	5157275	-2	09277189	0.03948195	0.2271679	-3	99967494	Down
HTATSF1	-0 115842	6	54236025	-2	08955846	0.03977793	0.2280659	-4	00574943	Down
SEPHS1	0.103324249	6	93643588	2.0875396870	0.03996485	0.2287372	-4	00956137	Up	
ZMIZ1	#####	9	16203738	-2	08641219	0.04006957	0.2289357	-4	01168891	Down
PUM3	0.100287499	7	93511175	2.0850999874	0.04019175	0.2289357	-4	01416372	Up	
FAM47E-S	#####	6	31607938	-2	08154214	0.04052465	0.2301644	-4	02086678	Down
UBE2E3	#####	8	92306688	-2	08103447	0.04057234	0.2301663	-4	02182239	Down
SAR1B	-0 123491	7	938378	-2	0798661	0.04068229	0.2304274	-4	02402093	Down

LGALS3B	0	151695	6	57343575	2.0785918437	0.04080250	0.2308089	-4	02641744	Up	
FOXN3	-0	1009235	8	69166475	-2	07308047	0.04132595	0.2326294	-4	03676765	Down
TNFRSF14	#####	7	44018763	-2	07242505	0.04138859	0.2326921	-4	03799687	Down	
RANBP2	#####	8	41588588	-2	07228655	0.04140183	0.2326921	-4	03825658	Down	
CEACAM	#####	6	85157438	-2	06938564	0.04168011	0.2335819	-4	04369269	Down	
RAP2A	#####	8	83765288	-2	06896488	0.04172061	0.2335819	-4	0444806	Down	
NCOA3	#####	8	37415438	-2	06800579	0.04181304	0.2339792	-4	04627603	Down	
GNB1	#####	10	6467349	-2	06605364	0.04200173	0.2345544	-4	04992822	Down	
ADO	-0	119819	8	894855	-2	06546951	0.04205834	0.2345705	-4	05102044	Down
METTL3	0.112954750	6	67358163	2.0650981498	0.04209435	0.2346180	-4	05171467	Up		
BAX	#####	6	17674038	-2	06501258	0.04210266	0.2346180	-4	05187461	Down	
SGMS1	-0	1233335	6	62751225	-2	06414237	0.04218718	0.2347894	-4	05350092	Down
ERBIN	-0	148015	9	5116785	-2	06310832	0.04228781	0.2350433	-4	05543263	Down
SMARCC2	#####	7	42317163	-2	06247269	0.04234977	0.2351947	-4	05661961	Down	
CMPK1	#####	9	30424388	-2	06207589	0.04238848	0.2353099	-4	05736043	Down	
MYO18A	#####	7	67829488	-2	06035654	0.04255660	0.2358435	-4	06056899	Down	
IFRD1	0.198619249	7	33960113	2.0590594081	0.04268381	0.2363485	-4	06298802	Up		
PDCD10	0	128567	10	0058058	2.0583456740	0.04275395	0.2364352	-4	0643185	Up	
CCNI	0.12659025	11	2397081	2.0570126496	0.04288521	0.2365475	-4	06680229	Up		
LUC7L3	0.157461749	9	53860688	2.0569831945	0.04288811	0.2365475	-4	06685715	Up		
BLOC1S1	-0	119083	9	228381	-2	05629217	0.04295630	0.2367566	-4	06814414	Down
TNFAIP8	#####	10	3822066	-2	05416589	0.04316668	0.2377161	-4	07210175	Down	
HSPH1	0	10528525	8	34999063	2.0502047595	0.04356099	0.2386836	-4	07946477	Up	
LMO2	-0	1056945	10	9329315	-2	04514213	0.04406944	0.2401192	-4	08885674	Down
HIST2H2E	0.189456999	7	165603	2.0419428182	0.04439339	0.2411267	-4	09478122	Up		
STK10	-0	1090205	9	7027285	-2	0402519	0.04456542	0.2416604	-4	09790909	Down
MED15	-0	142415	7	14995	-2	03718974	0.04487843	0.2424358	-4	10356761	Down
MARCKS	#####	10	5643114	-2	03665878	0.04493290	0.2424358	-4	10454798	Down	
NCOA2	#####	8	32541488	-2	03336485	0.04527205	0.2433464	-4	11062482	Down	
CSNK1A1	0.101101999	10	3986715	2.0328104404	0.04532935	0.2433852	-4	11164677	Up		
GTF2E1	0.101434000	7	4098655	2.0324741248	0.04536414	0.2434270	-4	11226657	Up		
USP8	-0	1413655	8	06986375	-2	03165304	0.04544917	0.2435295	-4	1137794	Down
ITGB2	-0	1226855	12	3508663	-2	0311151	0.04550496	0.2436291	-4	11477023	Down
CTSO	0.120986999	8	73518825	2.0303363187	0.04558582	0.2439338	-4	11620426	Up		
BRD4	0	20882325	8	43771138	2.0282669412	0.04580129	0.2439338	-4	12001236	Up	
SRD5A1	#####	7	33433038	-2	02806598	0.04582226	0.2439338	-4	12038199	Down	
PPP1CB	-0	156532	9	1511895	-2	02538016	0.04610332	0.2446891	-4	12531882	Down
TRIM25	-0	103569	8	151598	-2	0241613	0.04623136	0.2448357	-4	12755729	Down
UBP1	-0	1116045	7	5419465	-2	01999514	0.04667131	0.2459664	-4	1351994	Down
NUP160	-0	1123005	6	15094375	-2	01997234	0.04667373	0.2459664	-4	13524118	Down
ATP2A3	#####	8	24248713	-2	01942608	0.04673168	0.2460738	-4	13624213	Down	
C1orf174	-0	121878	8	2022755	-2	01889258	0.04678834	0.2461891	-4	13721948	Down
SP2	#####	7	67363588	-2	01779315	0.04690529	0.2465618	-4	13923285	Down	
CX3CR1	-0	116154	12	4776408	-2	0176696	0.04691845	0.2465618	-4	13945904	Down
TBC1D8	0	1340275	8	84205775	2.0171673921	0.04697197	0.2466452	-4	14037835	Up	
LIPT1	0	139559	7	212593	2.0161963306	0.04707559	0.2469913	-4	14215532	Up	
SUCO	-0	111713	6	96559725	-2	01564579	0.04713443	0.2471021	-4	14316243	Down
TBC1D3P	0.165231000	8	056269	2.0146449764	0.04724155	0.2473809	-4	14499259	Up		

RAD21	-0	1208395	9	47146675	-2	01031532	0.047707388	0.2484738	-4	1529007	Down
NDUFS6	0.107522250	9	05798838	2.0091273122	0.04783589	0.2489861	-4	15506791	Up		
CD83	#####	7	48459738	-2	00622091	0.04815151	0.2498479	-4	16036503	Down	
KYNU	0.135384749	9	73878938	2.0055484583	0.04822479	0.2500170	-4	16158964	Up		
MINK1	#####	9	34877113	-2	00318283	0.04848335	0.2509602	-4	16589476	Down	
CNDP2	0.136756000	10	0496055	2.0014759915	0.04867063	0.2514788	-4	16899815	Up		
APAF1	#####	8	87031238	-2	00128929	0.04869115	0.2514788	-4	16933747	Down	
EPS15	#####	9	35558013	-2	00027049	0.04880328	0.2519195	-4	17118855	Down	
RAB1B	-0	1034445	8	9526535	-1	99737904	0.04912270	0.2529703	-4	1764375	Down
CD24	-0	508321	8	09411875	-1	992935	0.04961712	0.2540752	-4	18449159	Down
AHR	-0	128568	9	46492225	-1	99210474	0.04970996	0.2541517	-4	1859945	Down
C2CD5	0.124327249	8	50588413	1.9918975351	0.04973315	0.2541517	-4	18636949	Up		
XAF1	0.174427750	8	95870088	1.9918354220	0.04974010	0.2541517	-4	18648189	Up		
SGSH	#####	8	59077688	-1	99102129	0.04983133	0.2542316	-4	18795489	Down	
PRELID3E	#####	6	57370788	-1	99056513	0.04988251	0.2542990	-4	18877996	Down	
CHMP1A	-0	108687	8	28855225	-1	99027986	0.04991454	0.2543486	-4	18929586	Down

Table S4. Gene Ontology (GO) items

ONTOLOG	ID	Description	pvalue	p.adjust	qvalue	geneID	Count
BP	GO:006102	eyelid development	5.48501E-05	0.029822914	0.01834882	EGFR/JUN	2
BP	GO:004440	biological process	9.24742E-05	0.029822914	0.01834882	EGFR/PTX	4
BP	GO:004671	viral entry	0.00023043	0.032485741	0.01998715	EGFR/PTX	3
BP	GO:004440	entry into cell	0.000262863	0.032485741	0.01998715	EGFR/PTX	3
BP	GO:007127	cellular response	0.000278068	0.032485741	0.01998715	EGFR/JUN	2
BP	GO:001603	viral process	0.000302193	0.032485741	0.01998715	EGFR/PTX	4
BP	GO:004400	movement	0.000402471	0.034129434	0.02099844	EGFR/PTX	3
BP	GO:000241	antigen presentation	0.000464487	0.034129434	0.02099844	CTSD/HLA	2
BP	GO:005170	biological process	0.000550967	0.034129434	0.02099844	EGFR/PTX	3
BP	GO:007037	positive regulation	0.000684973	0.034129434	0.02099844	EGFR/JUN	3
BP	GO:001988	antigen presentation	0.000697377	0.034129434	0.02099844	CTSD/HLA	2
BP	GO:000840	gonadal development	0.000740136	0.034129434	0.02099844	EIF2S2/PT	3
BP	GO:190289	positive regulation	0.000755381	0.034129434	0.02099844	EGFR/JUN	2
BP	GO:004511	development	0.000788217	0.034129434	0.02099844	EIF2S2/PT	3
BP	GO:004814	positive regulation	0.000815645	0.034129434	0.02099844	EGFR/JUN	2
BP	GO:004668	response to	0.000846622	0.034129434	0.02099844	EGFR/JUN	2
BP	GO:200061	positive regulation	0.001044265	0.039620627	0.02437695	EGFR/JUN	2
BP	GO:190289	regulation of	0.001338982	0.044558604	0.02741509	EGFR/JUN	2
BP	GO:006161	miRNA trans	0.00137831	0.044558604	0.02741509	EGFR/JUN	2
BP	GO:000754	sex difference	0.001381662	0.044558604	0.02741509	EIF2S2/PT	3
BP	GO:004800	antigen presentation	0.001458617	0.044800373	0.02756384	CTSD/HLA	2
BP	GO:004860	reproductive	0.001649024	0.047451368	0.02919488	EIF2S2/PT	3
BP	GO:006141	reproductive	0.001712543	0.047451368	0.02919488	EIF2S2/PT	3
BP	GO:007037	regulation of	0.001878032	0.047451368	0.02919488	EGFR/JUN	3
BP	GO:200061	regulation of	0.001892953	0.047451368	0.02919488	EGFR/JUN	2
BP	GO:001900	viral life cycle	0.001964413	0.047451368	0.02919488	EGFR/PTX	3
BP	GO:005181	modulation of	0.001986336	0.047451368	0.02919488	PTX3/JUN	2
BP	GO:004814	regulation of	0.002179569	0.050207935	0.03089089	EGFR/JUN	2
BP	GO:007037	ERK1 and	0.002354358	0.05236418	0.03221754	EGFR/JUN	3
BP	GO:001058	miRNA me	0.002700079	0.058051707	0.03571684	EGFR/JUN	2
BP	GO:001001	response to	0.002900001	0.060338926	0.03712407	EGFR/JUN	3
BP	GO:004814	fibroblast p	0.003037802	0.061230703	0.03767275	EGFR/JUN	2
BP	GO:009011	tissue migr	0.003176159	0.062079474	0.03819496	JUN/ENPF	3
BP	GO:004217	negative re	0.003579696	0.067908946	0.0417816	EGFR/ATI	2
BP	GO:001988	antigen presentation	0.003705824	0.068293039	0.04201791	CTSD/HLA	2
BP	GO:005170	biological process	0.003964258	0.071026296	0.04369957	PTX3/JUN	2
BP	GO:199020	neutrophil	0.004646111	0.080993017	0.04983169	CD99/BSC	2
BP	GO:000858	male gonad	0.005841793	0.097920017	0.06024618	EIF2S2/AI	2
BP	GO:004654	development	0.005920745	0.097920017	0.06024618	EIF2S2/AI	2
BP	GO:000189	placenta de	0.006487157	0.099330766	0.06111416	EGFR/BSC	2
BP	GO:003461	cellular response	0.006487157	0.099330766	0.06111416	EGFR/JUN	2
BP	GO:004341	positive regulation	0.006701059	0.099330766	0.06111416	EGFR/JUN	3
BP	GO:000160	ameboida	0.006738561	0.099330766	0.06111416	JUN/ENPF	3
BP	GO:009751	granulocyte	0.006821555	0.099330766	0.06111416	CD99/BSC	2
BP	GO:005110	negative regulation	0.007425368	0.099330766	0.06111416	JUN/ADA	2
BP	GO:004660	male sex di	0.007871054	0.099330766	0.06111416	EIF2S2/AI	2
BP	GO:000171	formation of	0.008031226	0.099330766	0.06111416	EIF2S2	1
BP	GO:003281	positive regulation	0.008031226	0.099330766	0.06111416	HLA-E	1

BP	GO:003606	germ cell p	0	008031226	0	099330766	0	06111416	EIF2S2	1
BP	GO:009720	(negative re	0	008031226	0	099330766	0	06111416	JUN	1
BP	GO:001061	positive re	0	008608844	0	099330766	0	06111416	JUN/ENPF	2
BP	GO:000154	antral ovar	0	008831029	0	099330766	0	06111416	PTX3	1
BP	GO:002260	mammalian	0	008831029	0	099330766	0	06111416	PTX3	1
BP	GO:004668	response to	0	008831029	0	099330766	0	06111416	BSG	1
BP	GO:190421	pericyte ce	0	008831029	0	099330766	0	06111416	ACTA2	1
BP	GO:200039	regulation o	0	008831029	0	099330766	0	06111416	ENPP2	1
BP	GO:001074	regulation o	0	009630229	0	099330766	0	06111416	EGFR	1
BP	GO:003194	negative re	0	009630229	0	099330766	0	06111416	JUN	1
BP	GO:003281	regulation o	0	009630229	0	099330766	0	06111416	HLA-E	1
BP	GO:007268	T cell extr	0	009630229	0	099330766	0	06111416	CD99	1
BP	GO:003109	regeneratio	0	009972119	0	099330766	0	06111416	JUN/ADA1	2
BP	GO:000251	hypersensit	0	010428829	0	099330766	0	06111416	HLA-E	1
BP	GO:000280	(positive re	0	010428829	0	099330766	0	06111416	HLA-E	1
BP	GO:007251	fibroblast a	0	010428829	0	099330766	0	06111416	ACTA2	1
BP	GO:190011	negative re	0	010428829	0	099330766	0	06111416	ADAM15	1
BP	GO:007124	cellular res	0	011001195	0	099330766	0	06111416	EGFR/JUN	2
BP	GO:003271	positive re	0	011226827	0	099330766	0	06111416	HLA-E	1
BP	GO:004391	negative re	0	011226827	0	099330766	0	06111416	JUN	1
BP	GO:004479	negative re	0	011226827	0	099330766	0	06111416	PTX3	1
BP	GO:007014	response to	0	011226827	0	099330766	0	06111416	EGFR	1
BP	GO:007261	neutrophil	0	011226827	0	099330766	0	06111416	CD99	1
BP	GO:000030	(response to	0	011532762	0	099330766	0	06111416	EGFR/JUN	2
BP	GO:000178	natural kill	0	012024225	0	099330766	0	06111416	HLA-E	1
BP	GO:000280	(regulation o	0	012024225	0	099330766	0	06111416	HLA-E	1
BP	GO:003368	negative re	0	012024225	0	099330766	0	06111416	ATRAID	1
BP	GO:190114	insulin met	0	012024225	0	099330766	0	06111416	CTSD	1
BP	GO:190520	(negative re	0	012024225	0	099330766	0	06111416	EGFR	1
BP	GO:000171	formation o	0	012821022	0	099330766	0	06111416	EIF2S2	1
BP	GO:000248	antigen pre	0	012821022	0	099330766	0	06111416	HLA-E	1
BP	GO:003461	phosphatid	0	012821022	0	099330766	0	06111416	ENPP2	1
BP	GO:004211	lipoprotein	0	012821022	0	099330766	0	06111416	CTSD	1
BP	GO:000241	antigen pre	0	01361722	0	099330766	0	06111416	HLA-E	1
BP	GO:000248	antigen pre	0	01361722	0	099330766	0	06111416	HLA-E	1
BP	GO:000820	opsonizatio	0	01361722	0	099330766	0	06111416	PTX3	1
BP	GO:001070	(positive re	0	01361722	0	099330766	0	06111416	ACTA2	1
BP	GO:004391	positive re	0	01361722	0	099330766	0	06111416	JUN	1
BP	GO:007210	(glomerular	0	01361722	0	099330766	0	06111416	ACTA2	1
BP	GO:005061	positive re	0	01377054	0	099330766	0	06111416	EGFR/JUN	2
BP	GO:004671	protein aut	0	014003995	0	099330766	0	06111416	EGFR/JUN	2
BP	GO:000241	antigen pre	0	014412818	0	099330766	0	06111416	HLA-E	1
BP	GO:000261	positive re	0	014412818	0	099330766	0	06111416	CD99	1
BP	GO:003811	ERBB2 sig	0	014412818	0	099330766	0	06111416	EGFR	1
BP	GO:007261	lamellipodi	0	014412818	0	099330766	0	06111416	ENPP2	1
BP	GO:007124	cellular res	0	014476112	0	099330766	0	06111416	EGFR/JUN	2
BP	GO:190151	positive re	0	015207818	0	103253078	0	06352739	JUN	1
BP	GO:009751	myeloid lei	0	015686529	0	105178968	0	06471231	CD99/BSC	2
BP	GO:004591	negative re	0	016002219	0	105178968	0	06471231	HLA-E	1
BP	GO:200118	regulation o	0	016002219	0	105178968	0	06471231	HLA-E	1

BP	GO:000271	negative re	0	016796021	0	105178968	0	06471231	HLA-E	1
BP	GO:000280	positive re	0	016796021	0	105178968	0	06471231	HLA-E	1
BP	GO:003261	interleukin	0	016796021	0	105178968	0	06471231	HLA-E	1
BP	GO:003261	regulation	0	016796021	0	105178968	0	06471231	HLA-E	1
BP	GO:003808	peptidyl-ty	0	016796021	0	105178968	0	06471231	EGFR	1
BP	GO:005071	regulation	0	017452362	0	108048104	0	06647758	EGFR/ENI	2
BP	GO:004651	negative re	0	017589226	0	108048104	0	06647758	PTX3	1
BP	GO:000300	heart morp	0	018365946	0	109673524	0	06747763	JUN/ADA	2
BP	GO:001988	antigen prc	0	018381834	0	109673524	0	06747763	HLA-E	1
BP	GO:190011	regulation	0	018381834	0	109673524	0	06747763	ADAM15	1
BP	GO:006051	morphogen	0	019173845	0	109673524	0	06747763	EGFR	1
BP	GO:000241	antigen prc	0	019965259	0	109673524	0	06747763	HLA-E	1
BP	GO:000241	antigen prc	0	019965259	0	109673524	0	06747763	HLA-E	1
BP	GO:004661	positive re	0	019965259	0	109673524	0	06747763	CTSD	1
BP	GO:004661	positive re	0	019965259	0	109673524	0	06747763	HLA-E	1
BP	GO:004661	decidualiza	0	019965259	0	109673524	0	06747763	BSG	1
BP	GO:007151	cellular res	0	019978833	0	109673524	0	06747763	JUN/ACTA	2
BP	GO:000191	negative re	0	020756077	0	109673524	0	06747763	HLA-E	1
BP	GO:000241	acute infla	0	020756077	0	109673524	0	06747763	HLA-E	1
BP	GO:003281	positive re	0	020756077	0	109673524	0	06747763	HLA-E	1
BP	GO:003591	response tc	0	020756077	0	109673524	0	06747763	JUN	1
BP	GO:190390	negative re	0	020756077	0	109673524	0	06747763	PTX3	1
BP	GO:007151	response tc	0	020807125	0	109673524	0	06747763	JUN/ACTA	2
BP	GO:007261	protein loc	0	021508359	0	109673524	0	06747763	EGFR/BSC	2
BP	GO:003271	positive re	0	0215463	0	109673524	0	06747763	HLA-E	1
BP	GO:004591	positive re	0	0215463	0	109673524	0	06747763	HLA-E	1
BP	GO:003451	cellular res	0	022219499	0	109673524	0	06747763	EGFR/JUN	2
BP	GO:000241	immune re	0	022335927	0	109673524	0	06747763	ADAM15	1
BP	GO:000261	positive re	0	022335927	0	109673524	0	06747763	HLA-E	1
BP	GO:003601	CD8-positi	0	022335927	0	109673524	0	06747763	HLA-E	1
BP	GO:004201	negative re	0	022335927	0	109673524	0	06747763	EGFR	1
BP	GO:190001	positive re	0	022335927	0	109673524	0	06747763	CTSD	1
BP	GO:190301	negative re	0	022335927	0	109673524	0	06747763	PTX3	1
BP	GO:001061	regulation	0	022940465	0	109673524	0	06747763	JUN/ENPF	2
BP	GO:000691	phagocytos	0	02312496	0	109673524	0	06747763	PTX3	1
BP	GO:000721	nitric oxide	0	02312496	0	109673524	0	06747763	EGFR	1
BP	GO:003131	negative re	0	02312496	0	109673524	0	06747763	HLA-E	1
BP	GO:007201	glomerulus	0	02312496	0	109673524	0	06747763	ACTA2	1
BP	GO:000251	tolerance ii	0	023913398	0	111414696	0	0685489	HLA-E	1
BP	GO:000721	activation c	0	023913398	0	111414696	0	0685489	EGFR	1
BP	GO:001988	antigen prc	0	024701243	0	111414696	0	0685489	CTSD	1
BP	GO:003011	sphingolipi	0	024701243	0	111414696	0	0685489	ENPP2	1
BP	GO:003361	regulation	0	024701243	0	111414696	0	0685489	ATRAID	1
BP	GO:006141	renal syste	0	024701243	0	111414696	0	0685489	ACTA2	1
BP	GO:006141	kidney vas	0	024701243	0	111414696	0	0685489	ACTA2	1
BP	GO:000271	positive re	0	025488493	0	11188772	0	06883994	HLA-E	1
BP	GO:000741	salivary gl	0	025488493	0	11188772	0	06883994	EGFR	1
BP	GO:001988	antigen prc	0	025488493	0	11188772	0	06883994	HLA-E	1
BP	GO:003011	extracellul	0	025768361	0	11188772	0	06883994	PTX3/AD	2
BP	GO:004301	extracellul	0	025921015	0	11188772	0	06883994	PTX3/AD	2

BP	GO:004521	external en	0 026227454	0 11188772	0 06883994	PTX3/ADAM15	2
BP	GO:190111	negative re	0 026275151	0 11188772	0 06883994	EGFR	1
BP	GO:190520	regulation of	0 026275151	0 11188772	0 06883994	EGFR	1
BP	GO:006040	mesenchymal	0 026689932	0 11188772	0 06883994	ADAM15/EGFR	2
BP	GO:000741	salivary gland	0 027061216	0 11188772	0 06883994	EGFR	1
BP	GO:004641	glycerophospholipid	0 027061216	0 11188772	0 06883994	ENPP2	1
BP	GO:006030	cardiac epithelium	0 027061216	0 11188772	0 06883994	ADAM15	1
BP	GO:190261	positive regulation of	0 027061216	0 11188772	0 06883994	CD99	1
BP	GO:000180	maternal placenta	0 027846689	0 112226633	0 06904845	BSG	1
BP	GO:000240	antigen presentation	0 027846689	0 112226633	0 06904845	CTSD	1
BP	GO:003261	interleukin-1	0 027846689	0 112226633	0 06904845	HLA-E	1
BP	GO:003261	regulation of	0 027846689	0 112226633	0 06904845	HLA-E	1
BP	GO:000241	antigen presentation	0 028631569	0 112226633	0 06904845	HLA-E	1
BP	GO:003020	monocyte chemotaxis	0 028631569	0 112226633	0 06904845	JUN	1
BP	GO:003360	osteoblast junction	0 028631569	0 112226633	0 06904845	ATRAID	1
BP	GO:000980	negative regulation of	0 029373782	0 112226633	0 06904845	EGFR/ATM	2
BP	GO:000250	antigen presentation	0 029415859	0 112226633	0 06904845	CTSD	1
BP	GO:004640	membrane	0 029415859	0 112226633	0 06904845	ENPP2	1
BP	GO:190271	positive regulation of	0 029415859	0 112226633	0 06904845	ENPP2	1
BP	GO:004301	camera-type	0 029534959	0 112226633	0 06904845	EGFR/JUN	2
BP	GO:000210	cytoplasmic	0 030199557	0 112226633	0 06904845	EIF2S2	1
BP	GO:004361	regulation of	0 030199557	0 112226633	0 06904845	JUN	1
BP	GO:199071	protein localization	0 030673342	0 112226633	0 06904845	EGFR/BSC1	2
BP	GO:004571	positive regulation of	0 030982665	0 112226633	0 06904845	EGFR	1
BP	GO:004571	positive regulation of	0 030982665	0 112226633	0 06904845	EGFR	1
BP	GO:006210	cellular response to	0 031331758	0 112226633	0 06904845	EGFR/JUN	2
BP	GO:000191	positive regulation of	0 031765182	0 112226633	0 06904845	HLA-E	1
BP	GO:000191	negative regulation of	0 031765182	0 112226633	0 06904845	ADAM15	1
BP	GO:001070	regulation of	0 031765182	0 112226633	0 06904845	ACTA2	1
BP	GO:001080	positive regulation of	0 031765182	0 112226633	0 06904845	EGFR	1
BP	GO:007130	cellular response to	0 031765182	0 112226633	0 06904845	EGFR	1
BP	GO:190311	regulation of	0 031765182	0 112226633	0 06904845	ACTA2	1
BP	GO:000260	regulation of	0 032547109	0 112226633	0 06904845	CD99	1
BP	GO:014040	integrated stress	0 032547109	0 112226633	0 06904845	JUN	1
BP	GO:000271	positive regulation of	0 033328448	0 112226633	0 06904845	HLA-E	1
BP	GO:000280	positive regulation of	0 033328448	0 112226633	0 06904845	HLA-E	1
BP	GO:004541	positive regulation of	0 033328448	0 112226633	0 06904845	PTX3	1
BP	GO:005090	regulation of	0 033328448	0 112226633	0 06904845	EGFR	1
BP	GO:190021	regulation of	0 033328448	0 112226633	0 06904845	EGFR	1
BP	GO:190401	positive regulation of	0 033328448	0 112226633	0 06904845	EGFR	1
BP	GO:004211	regulation of	0 033341096	0 112226633	0 06904845	EGFR/ATM	2
BP	GO:003050	positive regulation of	0 034109197	0 112226633	0 06904845	ATRAID	1
BP	GO:003191	regulation of	0 034109197	0 112226633	0 06904845	JUN	1
BP	GO:003281	regulation of	0 034109197	0 112226633	0 06904845	HLA-E	1
BP	GO:007130	cellular response to	0 034109197	0 112226633	0 06904845	EGFR	1
BP	GO:005100	regulation of	0 034708681	0 112226633	0 06904845	JUN/ADA1	2
BP	GO:001810	peptidyl-tyrosine	0 034881187	0 112226633	0 06904845	EGFR/ENI	2
BP	GO:000180	receptor signaling	0 034889357	0 112226633	0 06904845	CTSD	1
BP	GO:000231	response to	0 034889357	0 112226633	0 06904845	ADAM15	1
BP	GO:004361	regulation of	0 034889357	0 112226633	0 06904845	JUN	1

BP	GO:004664	regulation of	0 034889357	0 112226633	0 06904845	HLA-E	1
BP	GO:190446	(positive regulation of)	0 034889357	0 112226633	0 06904845	PTX3	1
BP	GO:001066	epithelial cell	0 035054037	0 112226633	0 06904845	JUN/ENPF	2
BP	GO:001821	peptidyl-tyrosine	0 035227231	0 112226633	0 06904845	EGFR/ENI	2
BP	GO:009011	epithelium	0 035574647	0 112226633	0 06904845	JUN/ENPF	2
BP	GO:003057	collagen cascade	0 03566893	0 112226633	0 06904845	ADAM15	1
BP	GO:190261	regulation of	0 03566893	0 112226633	0 06904845	CD99	1
BP	GO:003527	exocrine secretion	0 036447914	0 112961561	0 06950063	EGFR	1
BP	GO:004478	modulation of	0 036447914	0 112961561	0 06950063	PTX3	1
BP	GO:000177	microglial cell	0 037226312	0 112961561	0 06950063	JUN	1
BP	GO:000280	regulation of	0 037226312	0 112961561	0 06950063	HLA-E	1
BP	GO:004661	alpha-beta	0 037226312	0 112961561	0 06950063	HLA-E	1
BP	GO:007084	response to	0 037226312	0 112961561	0 06950063	EGFR	1
BP	GO:000161	eye development	0 037509759	0 112961561	0 06950063	EGFR/JUN	2
BP	GO:000267	regulation of	0 038004122	0 112961561	0 06950063	HLA-E	1
BP	GO:002179	cerebral cortex	0 038004122	0 112961561	0 06950063	EGFR	1
BP	GO:003581	epithelial cell	0 038004122	0 112961561	0 06950063	ACTA2	1
BP	GO:004220	regulation of	0 038004122	0 112961561	0 06950063	HLA-E	1
BP	GO:004651	regulation of	0 038004122	0 112961561	0 06950063	PTX3	1
BP	GO:015000	visual system	0 038223542	0 113092589	0 06958124	EGFR/JUN	2
BP	GO:005090	leukocyte response	0 038942657	0 113286497	0 06970055	CD99/BSC	2
BP	GO:005080	(positive regulation of)	0 039123264	0 113286497	0 06970055	HLA-E/AC	2
BP	GO:004888	sensory system	0 039304202	0 113286497	0 06970055	EGFR/JUN	2
BP	GO:000191	regulation of	0 039557984	0 113286497	0 06970055	HLA-E	1
BP	GO:000220	leukocyte response	0 039557984	0 113286497	0 06970055	JUN	1
BP	GO:004854	digestive tract	0 039557984	0 113286497	0 06970055	EGFR	1
BP	GO:000170	in utero embryonic	0 039848992	0 113286497	0 06970055	EGFR/EIF1	2
BP	GO:001908	viral transcription	0 040334036	0 113286497	0 06970055	JUN	1
BP	GO:004339	negative regulation	0 040334036	0 113286497	0 06970055	JUN	1
BP	GO:004577	positive regulation	0 040334036	0 113286497	0 06970055	ATRAID	1
BP	GO:190470	(positive regulation of)	0 040334036	0 113286497	0 06970055	JUN	1
BP	GO:000910	(glycoprotein)	0 040396735	0 113286497	0 06970055	PTX3/CAT	2
BP	GO:000271	regulation of	0 041109502	0 113314654	0 06971787	HLA-E	1
BP	GO:000690	cellular development	0 041109502	0 113314654	0 06971787	LGALS3B	1
BP	GO:002260	(ovulation cycle)	0 041109502	0 113314654	0 06971787	PTX3	1
BP	GO:003110	(axon regeneration)	0 041109502	0 113314654	0 06971787	JUN	1
BP	GO:000261	positive regulation	0 041884384	0 114472152	0 07043003	HLA-E	1
BP	GO:007010	(positive regulation of)	0 041884384	0 114472152	0 07043003	ATRAID	1
BP	GO:000939	phospholipid	0 042658682	0 115283518	0 07092923	ENPP2	1
BP	GO:190274	regulation of	0 042658682	0 115283518	0 07092923	ENPP2	1
BP	GO:001051	positive regulation	0 043432395	0 115283518	0 07092923	EGFR	1
BP	GO:001070	(fibroblast response)	0 043432395	0 115283518	0 07092923	ACTA2	1
BP	GO:005237	modulation of	0 043432395	0 115283518	0 07092923	PTX3	1
BP	GO:006190	glial cell activation	0 043432395	0 115283518	0 07092923	JUN	1
BP	GO:190000	(positive regulation of)	0 043432395	0 115283518	0 07092923	EGFR	1
BP	GO:005067	regulation of	0 043744348	0 115635675	0 0711459	EGFR/JUN	2
BP	GO:000151	regulation of	0 043933362	0 115661299	0 07116166	EGFR/AD	2
BP	GO:000270	(negative regulation of)	0 044205525	0 11590473	0 07131144	HLA-E	1
BP	GO:000154	ovarian follicle	0 044978071	0 116043424	0 07139677	PTX3	1
BP	GO:000750	embryo implantation	0 044978071	0 116043424	0 07139677	BSG	1

BP	GO:003270regulation of	0 044978071	0 116043424	0 07139677	EGFR	1
BP	GO:007211mesenchymal	0 044978071	0 116043424	0 07139677	ACTA2	1
BP	GO:004341response to	0 045265264	0 116319104	0 07156638	CTSD/BSC	2
BP	GO:000150ossification	0 045648622	0 116635465	0 07176103	EGFR/ATI	2
BP	GO:006100cell differenc	0 045750035	0 116635465	0 07176103	ACTA2	1
BP	GO:000191T cell mediat	0 046521416	0 117441517	0 07225696	HLA-E	1
BP	GO:003111neuron projec	0 046521416	0 117441517	0 07225696	JUN	1
BP	GO:000691response to	0 046612447	0 117441517	0 07225696	EGFR/JUN	2
BP	GO:000281regulation of	0 047292215	0 117871746	0 07252166	HLA-E	1
BP	GO:190301positive regu	0 047292215	0 117871746	0 07252166	EGFR	1
BP	GO:002241cellular proc	0 047389055	0 117871746	0 07252166	EIF2S2/PT	2
BP	GO:004871gland develop	0 047974723	0 117871746	0 07252166	EGFR/JUN	2
BP	GO:002201telencephalic	0 048062433	0 117871746	0 07252166	EGFR	1
BP	GO:004390regulation of	0 048062433	0 117871746	0 07252166	PTX3	1
BP	GO:006011maternal pro	0 048062433	0 117871746	0 07252166	BSG	1
BP	GO:002261extracellular	0 048832069	0 118408589	0 07285196	ADAM15	1
BP	GO:004541regulation of	0 048832069	0 118408589	0 07285196	PTX3	1
BP	GO:190301regulation of	0 048832069	0 118408589	0 07285196	PTX3	1
BP	GO:000271regulation of	0 049601125	0 119375841	0 07344707	HLA-E	1
BP	GO:000281regulation of	0 049601125	0 119375841	0 07344707	HLA-E	1
CC	GO:003191vesicle lumen	3 34933E-06	0 000294741	0 00016923	EGFR/CTSD	5
CC	GO:190471tertiary granu	9 40555E-06	0 000396445	0 00022762	CTSD/PTX	3
CC	GO:003551specific granu	1 35152E-05	0 000396445	0 00022762	CTSD/PTX	3
CC	GO:003471secretory granu	8 59605E-05	0 001568212	0 00090041	CTSD/PTX	4
CC	GO:006020cytoplasmic	8 91029E-05	0 001568212	0 00090041	CTSD/PTX	4
CC	GO:004251specific granu	0 000228807	0 003093312	0 00177606	CTSD/PTX	3
CC	GO:007081tertiary granu	0 000246059	0 003093312	0 00177606	CTSD/PTX	3
CC	GO:004511membrane	0 001762504	0 01738639	0 00998262	EGFR/CTSD	3
CC	GO:009881membrane	0 001778154	0 01738639	0 00998262	EGFR/CTSD	3
CC	GO:004241melanosome	0 003263493	0 023576375	0 01353667	CTSD/BSC	2
CC	GO:004871pigment granu	0 003263493	0 023576375	0 01353667	CTSD/BSC	2
CC	GO:006201collagen-coate	0 003589824	0 023576375	0 01353667	CTSD/AC	3
CC	GO:000591focal adhesio	0 003762798	0 023576375	0 01353667	EGFR/CD	3
CC	GO:190481ficolin-1-ri	0 003982524	0 023576375	0 01353667	CTSD/CAI	2
CC	GO:003001cell-substra	0 0040187	0 023576375	0 01353667	EGFR/CD	3
CC	GO:000161acrosomal	0 005115723	0 028136479	0 01615492	BSG/ADA	2
CC	GO:010101ficolin-1-ri	0 008651398	0 043179435	0 02479202	CTSD/CAI	2
CC	GO:003190early endoso	0 008832157	0 043179435	0 02479202	EGFR/HLA	2
CC	GO:003061endocytic vac	0 009666578	0 04477152	0 02570614	EGFR/HLA	2
CC	GO:003060coated vesic	0 010241799	0 044876925	0 02576666	EGFR/HLA	2
CC	GO:003101platelet der	0 010709266	0 044876925	0 02576666	LGALS3B	1
CC	GO:001631basolateral	0 013559765	0 054239061	0 03114204	EGFR/BSC	2
CC	GO:003151motile ciliu	0 015140504	0 057928883	0 0332606	ADAM15/	2
CC	GO:004281platelet der	0 016023667	0 058753447	0 03373404	LGALS3B	1
CC	GO:000991basal plasme	0 017284762	0 060842363	0 03493341	EGFR/BSC	2
CC	GO:004261MHC prote	0 019048492	0 0641463	0 03683041	HLA-E	1
CC	GO:004511basal part c	0 019681251	0 0641463	0 03683041	EGFR/BSC	2
CC	GO:009851luminal side	0 022064637	0 069346002	0 03981589	HLA-E	1
CC	GO:003011coated vesic	0 023314453	0 070747307	0 04062046	EGFR/HLA	2
CC	GO:000201acrosomal	0 024321063	0 071341785	0 04096179	BSG	1

CC	GO:009857 lumenal side	0 027322072	0 077559432	0 04453173	HLA-E	1
CC	GO:003011 endocytic vacuole	0 028405757	0 078115832	0 0448512	EGFR/HLA-E	2
CC	GO:003190 endosome	0 029567173	0 078845796	0 04527031	CTSD	1
CC	GO:000571 lysosomal lumen	0 039448296	0 097136618	0 05577222	CTSD/ATP6V	2
CC	GO:009881 lytic vacuole	0 039448296	0 097136618	0 05577222	CTSD/ATP6V	2
CC	GO:003121 cell leading edge	0 040666338	0 097136618	0 05577222	EGFR/AC	2
CC	GO:000576 early endosome	0 040841533	0 097136618	0 05577222	EGFR/HLA-E	2
CC	GO:000076 euchromatin	0 045147976	0 102637559	0 05893066	JUN	1
CC	GO:001250 ER to Golgi transport	0 047354648	0 102637559	0 05893066	HLA-E	1
CC	GO:000577 vacuolar membrane	0 047527432	0 102637559	0 05893066	CTSD/ATP6V	2
MF	GO:003024 polysaccharide	0 000184705	0 014222319	0 00816592	PTX3/ENF	2
MF	GO:000504 scavenger receptor	0 000686999	0 026162707	0 01502165	ENPP2/LG	2
MF	GO:003024 carbohydrate	0 001294112	0 026162707	0 01502165	PTX3/ENF	3
MF	GO:000161 virus receptor	0 001757857	0 026162707	0 01502165	EGFR/BSC	2
MF	GO:014021 exogenous	0 001803267	0 026162707	0 01502165	EGFR/BSC	2
MF	GO:003802 cargo receptor	0 002038653	0 026162707	0 01502165	ENPP2/LG	2
MF	GO:000419 cysteine-type	0 004067788	0 044652677	0 0256379	CTSD/CTSD	2
MF	GO:000411 endopeptidase	0 004639239	0 044652677	0 0256379	CTSD/ADAM	3
MF	GO:004260 T cell receptor	0 008948365	0 062614708	0 03595103	HLA-E	1
MF	GO:004679 virion binding	0 008948365	0 062614708	0 03595103	PTX3	1
MF	GO:000821 cysteine-type	0 009718203	0 062614708	0 03595103	CTSD/CTSD	2
MF	GO:003549 cAMP response	0 009758136	0 062614708	0 03595103	JUN	1
MF	GO:001711 nucleoside	0 012991049	0 067238974	0 03860611	CANT1	1
MF	GO:003029 transmembrane	0 012991049	0 067238974	0 03860611	EGFR	1
MF	GO:004228 MHC class	0 015409265	0 067238974	0 03860611	HLA-E	1
MF	GO:000184 opsonin binding	0 017018336	0 067238974	0 03860611	PTX3	1
MF	GO:000470 MAP kinase	0 017821951	0 067238974	0 03860611	EGFR	1
MF	GO:001606 phospholipid	0 017821951	0 067238974	0 03860611	EGFR	1
MF	GO:000461 lysophospholipid	0 019427341	0 067238974	0 03860611	ENPP2	1
MF	GO:007041 R-SMAD binding	0 019427341	0 067238974	0 03860611	JUN	1
MF	GO:000551 mannose binding	0 020229118	0 067238974	0 03860611	BSG	1
MF	GO:006021 lipase activity	0 020229118	0 067238974	0 03860611	EGFR	1
MF	GO:000184 complement	0 021030283	0 067238974	0 03860611	PTX3	1
MF	GO:000419 aspartic-type	0 021030283	0 067238974	0 03860611	CTSD	1
MF	GO:007000 aspartic-type	0 021830836	0 067238974	0 03860611	CTSD	1
MF	GO:003162 ubiquitin prote	0 024412975	0 072299963	0 04151194	EGFR/JUN	2
MF	GO:003130 translation	0 025824444	0 072798515	0 04179819	EIF2S2	1
MF	GO:004438 ubiquitin-like	0 027352904	0 072798515	0 04179819	EGFR/JUN	2
MF	GO:003029 protein tyrosine	0 027417622	0 072798515	0 04179819	EGFR	1
MF	GO:004529 cadherin binding	0 029444085	0 075573151	0 04339128	EGFR/BSC	2
MF	GO:004260 peptide antigen	0 031389935	0 077968549	0 04476663	HLA-E	1
MF	GO:004228 MHC protein	0 033766049	0 081249556	0 04665046	HLA-E	1
MF	GO:000374 translation	0 04086179	0 095344177	0 05474307	EIF2S2	1
MF	GO:014029 general trans	0 042432002	0 096096006	0 05517474	JUN	1
MF	GO:000471 transmembrane	0 047908872	0 105399519	0 06051647	EGFR	1

Table S5-S10

Table S5. Kyoto Encyclopedia of Genes and Genomes (KEGG) enrichment pathways

ID	Description	pvalue	p.adjust	qvalue	geneID	Count
hsa0492		0.00028035			EGFR/JUN/ACTA	
6	Relaxin signaling pathway	2	0.01263575	0.0093465	2	3
hsa0421		0.00032723				
0	Apoptosis	6	0.01263575	0.0093465	CTSD/JUN/CTSO	3
hsa0491		0.00034150				
5	Estrogen signaling pathway	7	0.01263575	0.0093465	EGFR/CTSD/JUN	3
hsa0512		0.00238561	0.05088518	0.0376391		
0	Epithelial cell signaling in Helicobacter pylori infection	4	7	1	EGFR/JUN	2
hsa0401		0.00347935	0.05088518	0.0376391		
2	ErbB signaling pathway	6	7	1	EGFR/JUN	2
hsa0521		0.00355922	0.05088518	0.0376391		
0	Colorectal cancer	2	7	1	EGFR/JUN	2
hsa0523	PD-L1 expression and PD-1 checkpoint pathway in	0.00380397	0.05088518	0.0376391		
5	cancer	2	7	1	EGFR/JUN	2
hsa0491		0.00405642	0.05088518	0.0376391		
2	GnRH signaling pathway	1	7	1	EGFR/JUN	2
hsa0152		0.00458425	0.05088518	0.0376391		
2	Endocrine resistance	1	7	1	EGFR/JUN	2

hsa0523		0.00458425	0.05088518	0.0376391		
1	Choline metabolism in cancer	1	7	1	EGFR/JUN	2
hsa0414		0.00813821	0.08212200	0.0607445		
2	Lysosome	7	4	8	CTSD/CTSO	2
hsa0522		0.01000043	0.09209172	0.0681190		
4	Breast cancer	5	7	6	EGFR/JUN	2
hsa0492		0.01092904	0.09209172	0.0681190		
1	Oxytocin signaling pathway	9	7	6	EGFR/JUN	2
hsa0451		0.01161517	0.09209172	0.0681190		
4	Cell adhesion molecules	3	7	6	CD99/HLA-E	2
hsa0516		0.01710032	0.10886005	0.0805223		
7	Kaposi sarcoma-associated herpesvirus infection	4	4	7	JUN/HLA-E	2
hsa0451		0.01827472	0.10886005	0.0805223		
0	Focal adhesion	1	4	7	EGFR/JUN	2
hsa0516		0.01861652	0.10886005	0.0805223		
9	Epstein-Barr virus infection	9	4	7	JUN/HLA-E	2
hsa0520		0.01861652	0.10886005	0.0805223		
3	Viral carcinogenesis	9	4	7	JUN/HLA-E	2
hsa0517		0.02018873	0.10886005	0.0805223		
0	Human immunodeficiency virus 1 infection	1	4	7	JUN/HLA-E	2
hsa0520		0.02072507	0.10886005	0.0805223		
7	Chemical carcinogenesis - receptor activation	4	4	7	EGFR/JUN	2
hsa0516			0.10886005	0.0805223		
6	Human T-cell leukemia virus 1 infection	0.02200012	4	7	JUN/HLA-E	2
hsa0516		0.02255658	0.10886005	0.0805223		
3	Human cytomegalovirus infection	8	4	7	EGFR/HLA-E	2

hsa0520		0.02255658	0.10886005	0.0805223		
8	Chemical carcinogenesis - reactive oxygen species	8	4	7	EGFR/JUN	2
hsa0517		0.02464770	0.11399562	0.0843210		
1	Coronavirus disease - COVID-19	3	6	9	EGFR/JUN	2
hsa0414		0.02742232	0.11793868	0.0872377		
4	Endocytosis	2	4	2	EGFR/HLA-E	2
hsa0513		0.02762527	0.11793868	0.0872377		
1	Shigellosis	7	4	2	EGFR/JUN	2
hsa0401			0.15561476	0.1151062		
0	MAPK signaling pathway	0.03785224	4	3	EGFR/JUN	2
hsa0516		0.04579476	0.16097510			
5	Human papillomavirus infection	4	8	0.1190712	EGFR/HLA-E	2
hsa0533		0.04033374	0.15989447	0.1182718		
0	Allograft rejection	1	4	7	HLA-E	1
hsa0521		0.04236209	0.16097510			
9	Bladder cancer	7	8	0.1190712	EGFR	1
hsa0494		0.04539739	0.16097510			
0	Type I diabetes mellitus	7	8	0.1190712	HLA-E	1
hsa0533		0.04640723	0.16097510			
2	Graft-versus-host disease	8	8	0.1190712	HLA-E	1
hsa0327		0.04943099	0.16466195	0.1217983		
2	Virion - Hepatitis viruses	5	3	1	EGFR	1

Table S6. Gene set enrichment analysis (GSEA) pathways for JUN

ID	setSize	enrichmentScore	NES	pvalue	p.adjust	Core enrichment
KEGG_PATHWAY	39	-0.61281893	-2.25581154	1.6785563207936e-06	0.00010239193556841	PSMD12/PSMB2/PSMD6/PSMB9/PSMC4/PSMA4/PSMB8/PSMB1/PSME1/PSMD1/PSMD11/PSMD13/PSMB6/PSMC3/PSMD4/PSMD7/PSMB3/PSMB4/PSMA1/PSMC5/PSMA7/PSMC1/PSMB10/PSMD2CD164/CLTC/LGMN/HEXA/FUCA1/SLC17A5/CTNS/ATP6V0C/AP3D1/AGA/NAGA/ATP6V1H/NA/GPA/MCOLN1/ARSB/ATP6V0A4/ASAHI/SORT1/GUSB/AP3B1/AP3S1/LAMP3/M6PR/AP4E1/LAPTM5/GALC/GNS/LAPTM4A/TPP1/PSAP/HEXB/ARSA/CTSL/NPC1/GALNS/ENTPD4/AP3M2/CLN5/S CARB2/PLA2G15/NPC2/MANBA/CTSC/SMPD1/CTSH/GLA/LAMP1/LAMP2/CTSO
KEGG_PATHWAY	105	-0.46398272	-2.07335261	5.283752767389e-07	4.83463378216093e-05	

KEGG_PATHWAYS	85	- 0.4463 8546	- 1.9282 2116	4.6894791 5715271e- 05	0.002145436714397 36	VDAC1/SDHB/CASP3/UQCRC2/HTRA2/COX6C/COX7A1/NDUFA1/CYC1/COX6B1/NDUFA2/VDAC2/NDUFS3/CYCS/NDUFB5/GPR37/SLC18A1/COX5B/UBB/NDUFB7/UBE2L6/NDUFV1/PPID/SDHA/NDUFA9/NDUFS6/NDUFS7/NDUFB8/COX7A2L/SLC25A5/COX7C/UBE2G1/SNCA/TH/NDUFV2/NDUFA8/NDUFS2/UBE2G2/NDUFS1/NDUFA10EDC3/EXOSC10/LSM7/EXOSC7/EXOSC5/DDX6/LSM4/PARN/DIS3/ENO3/EXOSC9/CNOT4/PAPOLA/LSM1/EXOSC2/DCP1A/CNOT7/HSPA9/CNOT1
KEGG_RNA_DEGRADATION	42	- 0.5128 5224	- 1.9203 6936	0.0004787 69567496 294	0.012516404407403 1	IDH2/SDHB/IDH1/IDH3B/ACO2/CS/SDHA/DLAT/SUCLG1/MDH1/IDH3A/MDH2/PDHA1/PC/FH/PCK2/SUCLG2

KEGG_N EUROAC TIVE_LI GAND_R ECEPTO R_INTER ACTION	240	0.3538 47224 58333 8	1.8815 10885 70539	8.0532290 739403e- 08	1.47374092053108e- 05	THRA/CYSLTR2/CHRNA2/ADORA1/CHRNA2/T AAR5/GRIN2B/HRH2/PRLR/P2RX3/ADRA1A/AD RA2C/GRIA3/P2RY6/GRIN2C/F2RL3/HTR7/HTR4 /FSHR/F2RL2/GNRHR/PRSS3/HRH3/HTR5A/PTG ER2/GRIN2D/NMUR1/GRIA4/BDKRB2/NPY1R/C HRNA4/TAAR2/SCTR/BDKRB1/CHRNA4/THRB/ GHSR/LEP/CYSLTR1/NTSR2/ADORA2B/CHRNA 10/GALR2/GABBR2/NPY2R/HTR1E/GABRA5/GP R35/PTH1R/CTSG/GABRD/S1PR2/GRIK1/HTR1F/ NMBR/SSTR5/HTR1B/LPAR3/S1PR4/CHRNA6/SSTR1/CCKBR/ADRA2A/CHRNA6/CRHR2/ PTGDR/GRM5/GABRP/GABRB3/GRIN1/SSTR4/G RM6/LHCGR/CCKAR/MC5R/GABRA3/CSH1/DR D1/MCHR1/ADRB3
KEGG_A POPTOSI S	84	- 0.3959 7421	- 1.7127 2556	0.0011441 58363271 31	0.023264553386516 7	AIFM1/IKBKG/IRAK4/CAPN1/TNFRSF10D/CYC S/PRKAR2B/CHUK/PRKX/BID/ENDOD1/PIK3CA /TRAF2/PRKACB/CSF2RB/IL1A/RELA/PIK3R2/P PP3CC/BIRC2/TNFRSF1A/PPP3CB/IRAK1/PRKA R1A/MAP3K14/NFKB1/ENDOG/PIK3CG/CAPN2/ IKKBK/CASP10/PIK3CD/DFFB/FASLG/TRADD
KEGG_RI BOSOME	69	0.3918 37214 84383 4	1.6891 85156 16556	0.0016199 17459815 18	0.029644489514617 7	RPL39/RPL30/RPL27/RPS27/RPL37/RPS28/RPLP1 /RPL35A/RPL35/RPL37A/RPS11/RPL34/RPL38/RP S27A/RPL27A/RPL24/RPS18/RPS27L/RPS29/RPS5 /RPS6/RPL5/RPL32/RPL36/RPL10

KEGG_SP LICEOSO ME	102	- 0.3776 7853	- 1.6793 0335	0.0008287 95001514 339	0.018958685659640 5	SRSF3/SMNDC1/NCBP2/SNRNP70/CRNKL1/SRSF6/DHX15/U2SURP/TCERG1/SNRPD2/USP39/HSPA6/DDX46/LSM7/SNRPB2/SNRPA/HNRNPA3/SRSF1/PRPF31/EIF4A3/CDC40/SNU13/SRSF5/DHX8/DDX23/SRSF8/LSM4/SRSF4/RBM8A/SNRPA1/TXNL4A/PPIE/SF3B1/SF3B3/DHX16/THOC2/CD5L/PQBP1/PPIH/RBM25/SNRPD3/AQR/HNRNPC/HNRNPA1/NCBP1/HNRNPM/CTNNBL1/SNRNP40
KEGG_C YTOKIN E_CYTO KINE_RE CEPTOR_ INTERAC TION	234	0.2907 99142 41545 3	1.5423 53644 64734	0.0003494 29046436 462	0.012516404407403 1	CXCL8/CCL3L3/IL1B/OSM/CXCL1/FLT4/TNFRSF10C/IFNA6/IL12RB1/CXCL2/CXCL3/CCL27/CNTFR/PRLR/CD27/PDGFA/IL7/IL13/CCL24/KDR/CL17/IL17A/IL2RA/EDAR/CXCR6/TNFRSF8/TNFRSF25/VEGFA/CNTF/FLT1/LIFR/FLT3LG/IL17RA/ACVR2A/GDF5/CRLF2/LEP/CCL2/INHBA/IL24/TNFRSF11A/CCR1/CCL19/TNF/INHBE/CLCF1/AMHR2/CXCL14/PDGFA/TGFB2/IL5/CXCR5/IL10/CD70/KITLG/IFNW1/INHBB/IL22RA1/BMP2/ACVRL1/LTA/CCR9/CCL23

Table S7. Gene set enrichment analysis (GSEA) pathways for CTSD

ID	setSize	enrichmentScore	NES	pvalue	p.adjust	Core enrichment
KEGG_RIBOSOME	69	-0.63020408	-2.62941333	1e-10	1.83e-08	RPS5/RPL34/RPL11/MRPL13/RPS16/RPS19/RPL10/RPL41/RPS6/RPL12/RPL18/RPL3/RPS29/RPLP0/RPS12/RPL5/RPL26L1/RSL24D1/RPS25/RPL36AL/RPL24/RPS3/RPS24/RPL6/RPL31/RPS4X/RPL9/RPL7/RPS21/RPL14/RPL22/RPL23A/RPS15A/RPL15 SLC18A1/SLC25A5/NDUFB2/UQCRCQ/NDUFB7/NDUFA7/UQCRHL/GPR37/SNCA/NDUFA2/NDUFB4/SDHC/NDUFB3/COX5B/NDUFB6/SDHB/NDUFB8/NDUFS3/COX6B1/VDAC2/NDUFS4/APAF1/NDUFS2/UBE2G1/SLC18A2/CYCS/UQCRB/NDUFA4/UBE2L3/NDUFA5/NDUFS6/UQCR10/COX6C/PPID/COX7A2L/COX7A2/UBB/SDHD/COX7C/UQCRC2/NDUFA6/CASP3/NDUFB5/PARK7/NDUFA8/VDAC3
KEGG_PARKINSONS_DISEASE	85	-0.46442481	-2.02679173	8.07075464235785e-06	0.000738474049775743	PSMC5/PSMB3/PSMA5/PSMB7/PSME4/PSMD4/PSMA4/PSMA3/PSMC6/PSMB4/PSMD14/PSMA2/PSMD6/PSMB1/PSMD11/PSMC1/PSMA7/PSMC2/PSMD12/PSMA1
KEGG_PROTEASOME	39	-0.52751695	-1.9483982	0.000302759932025938	0.00639288037056408	

KEGG_SPLIC EOSOME	102	- 0.42 0461 53	- 1.881981 07	1.68881885324015e- 05	0.00103017950047649	SNRPD2/NCBP1/SNRNP27/RBM25/LSM6/SF3B5/RB M8A/PPIE/MAGOHB/AQR/HNRNPC/SRSF10/SMND C1/SRSF8/SNRPD3/LSM8/NCBP2/U2AF1/SRSF7/PRP F18/SYF2/PPIH/SNRPA1/LSM3/SNW1/DDX42/CDC4 0/TRA2B/SNRPB2/CRNKL1/HNRNPA1/CDC5L/HNR NPA3/RBM22/TCERG1/SRSF3/SRSF1/DHX15/SF3B1/ DDX46/THOC1/SRSF5/U2SURP
KEGG_VIRA L_MYOCARD ITIS	67	0.45 0790 8668 1003 4	1.851285 62084716	0.000553580928202 425	0.00981653815404815	ITGB2/MYH9/ACTB/RAC2/HLA- B/ITGAL/EIF4G1/HLA-G/HLA-F/HLA-A/HLA- C/ACTG1/ABL1/ICAM1/MYH14/BID/MYH7/SGCA/C D40/CCND1/MYH13/HLA-E/HLA-DPA1/RAC3/FYN
KEGG_GLYC OLYSIS_GLU CONEOGENE SIS	54	0.46 7547 8075 2326 9	1.834291 31878463	0.001089721602282 2	0.011104592160878	ALDOA/ TPI1/PK M/HK3/ GPI/ALD H3B1/PF KL/HK1/ FBP1/AL DH9A1/ ALDH2/ PKLR/P CK2
KEGG_INSUL IN_SIGNALIN G_PATHWAY	127	0.39 7872 4569	1.825342 39447229	6.1576778341238e- 05	0.00225371008728931	AKT1/FLOT2/HK3/TSC2/MAP2K2/SH2B2/FLOT1/AR AF/EIF4EBP1/EXOC7/GYS1/PRKACA/RPS6KB2/HR AS/MAPK3/PIK3R5/PRKAR2A/PHKG2/HK1/INPP5D/

		5828				PPP1CA/RAPGEF1/SOCS3/FBP1/PYGB/ELK1/BAD/ MKNK1/SHC1/PRKAR1B/PHKA2/PKLR/PCK2/CAL ML5/PTPRF/TRIP10/PYGL/SHC3
		3				
		0.41				CTSD/MAN2B1/GAA/ATP6V0C/ATP6AP1/TCIRG1/ MCOLN1/CLTB/CTSA/ATP6V0D1/SGSH/CLN3/NAG PA/NAGA/NEU1/CLTA/AP1B1/NAGLU/CTSZ/LAPT M5/CTSF/IDS/GGA3/CLTCL1/PSAP/GM2A/HGSNAT /SLC11A1/ATP6V0A1/CTSB/CTSH/HEXA/CTNS/AR SA/TPP1/IDUA/GALNS/PLA2G15
KEGG_LYSO		2443	1.820678	0.000103578905729		
SOME	105	4344	1352699	229	0.00274186755075087	SH3GLB2/ARAP1/HGS/DNM2/ACAP1/VPS4A/HLA- B/ARRB2/CLTB/IQSEC1/PIP5K1C/AP2A2/GRK6/VPS 28/CSF1R/HLA-
		7569				G/PSD4/AP2S1/ARFGAP1/CHMP6/CLTA/EHD1/HLA -F/SH3GL1/HLA-
		2				A/HRAS/ARFGAP2/PLD2/PARD6A/HLA-
		0.37				C/VPS37B/SRC/IL2RG/AP2M1/CLTCL1/CXCR2/RAB 5B/EPN1/PIP5K1A/RAB11B/GIT1/HSPA1L/GRK2/SM URF1/LDLRAP1/HSPA6/CBLC/HLA-
KEGG_ENDO		2770	1.766854	5.60778089546166e-		E/RAB11FIP3/PIP4K2B/RAB5C/AGAP2
CYTOSIS	159	2229	28260867	05	0.00225371008728931	TGFB1/ITGA5/ACTB/TPM4/ITGB7/ACTC1/PRKACA /GNAS/ACTG1/ATP2A2/CACNG4/TNF/CACNA1S/C ACNA1C/ITGB4/TNNT2/MYH7/TPM2/SGCA/LMNA/ CACNA1D/ADCY9/CACNB3/CACNG5/EMD/MYL3/ CACNB1/CACNG1/TNNC1/TNNI3/DES/CACNA1F/M YBPC3
		5099				
		8				
		0.41				
KEGG_DILAT		3669	1.762546	0.000943775538092		
ED_CARDIO	82	9691	91787019	8	0.011104592160878	
MYOPATHY		2053				
		1				

KEGG_OXIDATIVE_PHOSPHORYLATION	83	- 0.39 9931 34	- 1.746677 5	0.000997327726023 907	0.011104592160878	NDUFB2/UQCRQ/NDUFB7/NDUFA7/UQCRHL/ATP6V1G1/NDUFA2/NDUFB4/SDHC/ATP6V0A2/NDUFB3/ATP6V1E1/COX5B/PPA1/NDUFB6/SDHB/ATP6V1A/NDUFB8/NDUFS3/COX6B1/NDUFS4/NDUFS2/ATP6V1D/UQCRB/NDUFA4/PPA2/NDUFA5/NDUFS6/UQCR10/COX6C/ATP6V1C1/COX7A2L/COX7A2/SDHD/COX7C/UQCRC2/COX11/NDUFA6/NDUFB5/NDUFA8
KEGG_NATURAL_KILLER_CELL_MEDIATED_CYTOTOXICITY	123	0.38 1862 5147 3273 7	1.738845 92864255	0.000314403952650 692	0.00639288037056408	PTPN6/ITGB2/PTK2B/MAP2K2/RAC2/HLA-B/ITGAL/ARAF/HLA-G/TNFRSF10C/FCER1G/HLA-A/HRAS/MAPK3/PIK3R5/HLA-C/VAV1/TYROBP/SYK/SH3BP2/SHC1/ICAM1/NCR2/PLCG1/TNF/KIR2DL3/NCR1/SHC3/KIR3DL2/NCR3/PRKCG/BID/GRB2/PIK3CD/IFNGR2/HLA-E/PRKCA/IFNA21/NFATC4/RAC3/LCP2/FYN
KEGG_HYPERTROPHIC_CARDIOMYOPATHY_HCM	76	0.40 6964 7248 6054 2	1.717257 51500916	0.001084300306824 3	0.011104592160878	TGFB1/ITGA5/ACTB/TPM4/ITGB7/ACTC1/ACTG1/ATP2A2/CACNG4/TNF/CACNA1S/CACNA1C/ITGB4/TNNT2/MYH7/TPM2/SGCA/LMNA/CACNA1D/CACNB3/CACNG5/EMD/MYL3/CACNB1/CACNG1/TNNC1/TNNI3/DES/CACNA1F/MYBPC3
KEGG_CHEMOKINE_SIGNALLING_PATHWAY	169	0.35 8901 6069 1642 4	1.710652 88630397	0.000104880179536 918	0.00274186755075087	AKT1/PRKCD/HCK/GNB2/PTK2B/FGR/RAC2/GNAI2/ARRB2/CSK/NFKBIA/PXN/GNG5/GRK6/NFKBIB/GSK3A/NCF1/PLCB2/WAS/PRKACA/HRAS/MAPK3/PIK3R5/RELA/VAV1/IKBKG/CCL24/CCR1/RASGRP2/STAT2/ELMO1/SHC1/CXCR2/SHC3/LYN/PLCB3/CCR10/NFKB1/CXCR6/STAT5B/GRB2/CXCL1/GRK2/PI

						K3CD/CXCR5/XCR1/STAT3/GNB1/XCL1/XCL2/ADCY9/CCL17
KEGG_PEROXISOME	69	- 0.40 8874 71	- 1.705956 26	0.002011236498811 91	0.018402813964129	ABCD4/HSD17B4/PHYH/ACSL4/ACSL1/PEX13/ECI2/HMGCL/IDH1/PECR/EHHADH/PEX12/SOD1/SLC25A17/PEX1/ABCD3/ACSL3/FAR2/CROT/SCP2/PEX19/GNPAT/PEX2/PRDX1/ACOX1/PEX3
KEGG_GLUTATHIONE_METABOLISM	40	0.46 2592 2068 6487 7	1.696572 62751163	0.006123636005735 52	0.0487228430021565	PGD/GSS/GSTP1/G6PD/SRM/IDH2/GSTM1/GSR/GPX4/GSTM2/GGT5/GPX1
KEGG_ACUTE_MYELOID_LEUKEMIA	55	0.42 9635 9427 3576 3	1.693097 17847313	0.002629784048196 85	0.0229166895628583	AKT1/CEBPA/SPI1/MAP2K2/PML/ARAF/EIF4EBP1/RPS6KB2/HRAS/MAPK3/PIK3R5/RELA/IKBKG/BAD/STAT5A/RARA/JUP/NFKB1/STAT5B/GRB2/PIK3CD/CCND1
KEGG_AXON_GUIDANCE	112	0.37 2624 2739 8234 3	1.666718 61087367	0.000956445547194 836	0.011104592160878	FES/RAC2/GNAI2/PLXNB2/CFL1/HRAS/MAPK3/EPHB6/LIMK2/ABL1/EFNB1/PLXNA2/SEMA4A/CDK5/RHOD/EFNA3/SLIT3/LIMK1/SEMA6B/PAK4/EPHB2/EPHA1/EPHB3/SEMA4C/SEMA4D/PLXNA1/NFATC4/EFNA4/RGS3/RAC3/FYN/EFNA1/SEMA3A/EPHA2/MET/EFNA2/PLXNB3/RHOA/NRP1/PAK1/NTN3/PPP3CC/UNC5B/PAK6/NFATC3/RND1/PTK2/ABLIM1/PAK2
KEGG_FC_GAMMA_R_M	91	0.38 1636	1.646618 75954918	0.001777098738372 46	0.0171162667959032	AKT1/PRKCD/HCK/VASP/DNM2/RAC2/CFL1/WASF2/PIP5K1C/MARCKSL1/NCF1/WAS/RPS6KB2/MAPK

EDIATED_PH AGOCYTOSI S	4503 6606 4					3/PIK3R5/PLD2/INPP5D/VAV1/GSN/LIMK2/ARPC4/ SYK/PLCG1/LYN/SPHK1/PIP5K1A/LIMK1/PRKCG
KEGG_FOCA L_ADHESION	188	0.33 0073 1278 0704 2	1.596903 60348776	0.000590065134942 785	0.00981653815404815	AKT1/FLNA/VASP/ZYX/ITGA5/ACTB/ACTN4/RAC2 /TLN1/ILK/CCND3/PIP5K1C/PXN/ITGB7/HRAS/MAP K3/PIK3R5/PPP1CA/RAPGEF1/SRC/DIAPH1/VAV1/P ARVB/ACTG1/ELK1/VEGFB/BAD/SHC1/SHC3/MYL 5/MYL9/VEGFA/COL11A2/ITGB4/PRKCG/PAK4/GR B2/PIK3CD/CCND1/COL6A1/IBSP/LAMC1/THBS3/P RKCA/RAC3/ACTN1/COMP/FYN/LAMB2/ARHGAP3 5/RAF1/LAMC3/FLT4/LAMA5/BCL2/LAMB3/MET/C OL4A2/THBS2/RHOA/PARVA/PAK1/ACTN2/MAP2K 1/PIK3R2/VWF/PAK6/CAV3/SOS1/ITGA6/AKT2/FLT 1/PTK2/IGF1/IGF1R/PAK2
KEGG_REGU LATION_OF_ ACTIN_CYTO SKELETON	193	0.32 7121 7695 4885 8	1.580624 51319306	0.000647354531949 019	0.00987215661222254	PFN1/ITGB2/MYH9/MAP2K2/ITGA5/ACTB/ACTN4/ RAC2/ITGAL/MSN/CFL1/CSK/WASF2/ARAF/PIP5K1 C/PXN/ITGB7/WAS/HRAS/MAPK3/PIK3R5/PPP1CA/ DIAPH1/SLC9A1/VAV1/GSN/RRAS/LIMK2/ARPC4/ ACTG1/SSH1/CYFIP2/FGF6/SSH3/FGF8/MYL5/MYL 9/PIP5K1A/MYH14/LIMK1/ITGB4/APC2/PAK4/GIT1/ ITGAX
KEGG_MAPK _SIGNALING _PATHWAY	241	0.31 1926 5563 9779 5	1.551156 78470941	0.001092254966643 74	0.011104592160878	AKT1/FLNA/TGFB1/MAP2K2/RPS6KA1/TP53/RAC2/ NFKB2/ARRB2/MAPKAPK3/JUND/RELB/MAP4K2/R PS6KA4/ECSIT/PRKACA/MAP3K6/MAP4K1/MAP4K 4/MAP3K11/HRAS/MAPK3/RELA/MAPKAPK2/IKBK G/CACNA1G/RRAS/TNFRSF1A/RASGRP2/ELK1/DA

					XX/MKNK1/TAB1/PPP5C/FGF6/HSPB1/DUSP2/CACNG4/TNF/MAP3K12/DUSP3/DUSP6/FGF8/MAP3K3/CACNA1S/CDC25B/CACNA1C/NFKB1/PRKCG/MAPK7/HSPA1L/GRB2/RPS6KA2/PLA2G2F/PLA2G1B/MAPK8IP1/HSPA6/DUSP4/CACNA1D/PLA2G2A/MAPK8IP3/PRKCA/TAOK2/CACNB3/CACNA1I/CACNG5/NFATC4/CACNB1/RAC3/NTF3/PTPN7/DUSP9/CACNG1/NGF/TGFBR2/FGF21/ARRB1/PLA2G4B/RAF1/MKNK2/FGF17/CACNA1F/DUSP5/MAP3K14/DUSP1/CACNA1B/PAK1/MAP2K1/TRAF2/MAPK8IP2/PPP3C/IKBKB/RPS6KA6/PLA2G6/MAPK12/SOS1/FOS/GADD45B	
KEGG_TIGHT_JUNCTION	116	0.33	1.526039	0.004586307045649	0.0381497358797189	AKT1/PRKCD/MYH9/ACTB/ACTN4/GNAI2/PPP2R1A/EXOC3/CSNK2B/SPTAN1/HCLS1/HRAS/PARD6A/SRC/RRAS/ACTG1/SYMPK/LLGL1/CLDN4/MYL5/CLDN9/CSNK2A2/MYL9/MYH14/PRKCG/MYH7/TJP3/MYH13/CLDN5/EPB41L3/CLDN15/PPP2R2D
		9484				
		6319				
		0253				
		3	56560958	27		

ID	setSize	enrich mentScore	NES	pvalue	p.adjust	Core enrichment
KEGG_PROTEASOME	39	- 0.6128 1893	- 2.2558 1154	1.67855632 07936e-06	0.00010239193556841	PSMD12/PSMB2/PSMD6/PSMB9/PSMC4/PSMA4/PSMB8/PSMB1/PSME1/PSMD1/PSMD11/PSMD13/PSMB6/PSMC3/PSMD4/PSMD7/PSMB3/PSMB4/PSMA1/PSMC5/PSMA7/PSMC1/PSMB10/PSMD2 CD164/CLTC/LGMN/HEXA/FUCA1/SLC17A5/CTNS/ATP6V0C/AP3D1/AGA/NAGA/ATP6V1H/NAGPA/MCOLN1/ARSB/ATP6V0A4/ASAH1/SORT1/GUSB/AP3B1/AP3S1/LAMP3/M6PR/AP4E1/LAPTM5/GALC/GNS/LAPTM4A/TPP1/PSAP/HEXB/ARSA/CTSL/NPC1/GALNS/ENTPD4/AP3M2/CLN5/SCARB2/PLA2G15/NPC2/MANBA/CTSC/SMPD1/CTSH/GLA/LAMP1/LAMP2/CTSOVDAC1/SDHB/CASP3/UQCRC2/HTRA2/COX6C/COX7A1/NDUFA1/CYC1/COX6B1/NDUFA2/VDAC2/NDUFS3/CYCS/NDUFB5/GPR37/SLC18A1/COX5B/UBB/NDUFB7/UBE2L6/NDUFV1/PPID/SDHA/NDUFA9/NDUFS6/NDUFS7/NDUFB8/COX7A2L/SLC25A5/COX7C/UBE2G1/SNCA/TH/NDUFV2/NDUFA8/NDUFS2/UBE2G2/NDUFS1/NDUFA10
KEGG_LYSOSOME	105	- 0.4639 8272	- 2.0733 5261	5.28375276 7389e-07	4.83463378216093e-05	EDC3/EXOSC10/LSM7/EXOSC7/EXOSC5/DDX6/LSM4/PARN/DIS3/ENO3/EXOSC9/CNOT4/PAPOLA/LSM1/EXOSC2/DCP1A/CNOT7/HSPA9/CNOT1
KEGG_PARKINSONS_DISEASE	85	- 0.4463 8546	- 1.9282 2116	4.68947915 715271e-05	0.00214543671439736	IDH2/SDHB/IDH1/IDH3B/ACO2/CS/SDHA/DLAT/SUCLG1/MDH1/IDH3A/MDH2/PDHA1/PC/FH/PCK2/SUCLG2
KEGG_RNA_DEGRADATION	42	- 0.5128 5224	- 1.9203 6936	0.00047876 9567496294	0.0125164044074031	
KEGG_CITRATE_CYCLE_TCA_CYCLE	30	- 0.5495 6019	- 1.8910 8252	0.00044259 5024747623	0.0125164044074031	

KEGG_NEUROACTIVE_LIGAND_RECEPTOR_INTERACTION	240	0.3538 472245 83338	1.8815 108857 0539	8.05322907 39403e-08	1.47374092053108e-05	THRA/CYSLTR2/CHRNA2/ADORA1/CHRNA2/TAAR5/GRIN2B/HRH2/PRLR/P2RX3/ADORA1A/ADORA2C/GRIA3/P2RY6/GRIN2C/F2RL3/HTR7/HTR4/FSHR/F2RL2/GNRHR/PRSS3/HRH3/HTR5A/PTGER2/GRIN2D/NMUR1/GRIA4/BDKRB2/NPY1R/CHRNA4/TAAR2/SCTR/BDKRB1/CHRNA4/THRB/GHSR/LEP/CYSLTR1/NTSR2/ADORA2B/CHRNA10/GALR2/GABBR2/NPY2R/HTR1E/GABRA5/GPR35/PTH1R/CTSG/GABRD/S1PR2/GRIK1/HTR1F/NMBR/SSTR5/HTR1B/LPAR3/S1PR4/CHRNA6/SSTR1/CCKBR/ADORA2A/CHRNA6/CRHR2/PTGDR/GRM5/GABRP/GABRB3/GRIN1/SSTR4/GRM6/LHCGR/CCKAR/MC5R/GABRA3/CSH1/DRD1/MCHR1/ADRB3
KEGG_APOPTOSIS	84	- 0.3959 7421	- 1.7127 2556	0.00114415 836327131	0.0232645533865167	AIFM1/IKBKG/IRAK4/CAPN1/TNFRSF10D/CYCS/PRKAR2B/CHUK/PRKX/BID/ENDOD1/PIK3CA/TRAFF2/PRKACB/CSF2RB/IL1A/RELA/PIK3R2/PPP3CC/BIRC2/TNFRSF1A/PPP3CB/IRAK1/PRKAR1A/MAP3K14/NFKB1/ENDOG/PIK3CG/CAPN2/IKBKB/CASP10/PIK3CD/DFFB/FASLG/TRADD
KEGG_RIBOSOME	69	0.3918 372148 43834	1.6891 851561 6556	0.00161991 745981518	0.0296444895146177	RPL39/RPL30/RPL27/RPS27/RPL37/RPS28/RPLP1/RPL35A/RPL35/RPL37A/RPS11/RPL34/RPL38/RPS27A/RPL27A/RPL24/RPS18/RPS27L/RPS29/RPS5/RPS6/RPL5/RPL32/RPL36/RPL10
KEGG_SPLICIOSOME	102	- 0.3776 7853	- 1.6793 0335	0.00082879 5001514339	0.0189586856596405	SRSF3/SMNDC1/NCBP2/SNRNP70/CRNKL1/SRSF6/DHX15/U2SURP/TCERG1/SNRPD2/USP39/HSPA6/DDX46/LSM7/SNRPB2/SNRPA/HNRNPA3/SRSF1/PRPF31/EI4A3/CDC40/SNU13/SRSF5/DHX8/DDX23/SRSF8/LSM4/SRSF4/RBM8A/SNRPA1/TXNL4A/PPIE/SF3B1/SF3B3/DHX16/THOC2/CDC5L/PQBP1/PPIH/RBM25/SNRPD3/AQR/HNRNPC/HNRNPA1/NCBP1/HNRNPM/CTNNB1/SNRNP40

KEGG_CY TOKINE_C YTOKINE_ RECEPTO R_INTERA CTION	234	0.2907 991424 15453	1.5423 536446 4734	0.00034942 9046436462	0.0125164044074031	CXCL8/CCL3L3/IL1B/OSM/CXCL1/FLT4/TNFRSF10C/ IFNA6/IL12RB1/CXCL2/CXCL3/CCL27/CNTFR/PRLR/ CD27/PDGFA/IL7/IL13/CCL24/KDR/CCL17/IL17A/IL2 RA/EDAR/CXCR6/TNFRSF8/TNFRSF25/VEGFA/CNTF /FLT1/LIFR/FLT3LG/IL17RA/ACVR2A/GDF5/CRLF2/L EP/CCL2/INHBA/IL24/TNFRSF11A/CCR1/CCL19/TNF/ INHBE/CLCF1/AMHR2/CXCL14/PDGFA/TGFB2/IL5/ CXCR5/IL10/CD70/KITLG/IFNW1/INHBB/IL22RA1/B MPR2/ACVRL1/LTA/CCR9/CCL23
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Table S8. Gene set variation analysis (GSVA)-associated pathways

Pathway	logFC	AveExpr	t	P.Value	adj.P.Val	B	change
KEGG_VALINE_LEUCINE_AND_ISOLEUCINE_BIOSYNTHESIS	0.237135304031005	0.00200323528998012	3.76706936359994	0.000301679146125044	0.00935205352987636	0.219138502255261	UP
KEGG_ABC_TRANSPORTERS	0.113380966171716	0.00673206759132405	3.09832055920296	0.00262904998961826	0.0305627061293122	-1.6659642	UP
KEGG_ONE_CARBON_POOL_BY_FOLATE	0.142524592119217	0.00350708211172766	2.85070944917726	0.00545925802863375	0.0507710996662939	-2.29147073	UP
KEGG_AMINOACYL_TRNA_BIOSYNTHESIS	0.153730519079864	0.00538476312234781	2.83343294051596	0.0057360950064451	0.050805412914228	-2.33354375	UP
KEGG_STEROID_HORMONE_BIOSYNTHESIS	0.107893583514514	0.00113945869023747	2.69134088247916	0.00855006619212904	0.0656421750343585	-2.67157918	UP
KEGG_ETHER_LIPID_METABOLISM	0.115622949091766	0.0136128298473621	2.57705368327156	0.0116688045653082	0.0748412982464592	-2.93292504	UP
KEGG_AUTOIMMUNE_THYROID_DISEASE	0.111353452601659	-6.62E-05	2.36259632498042	0.0204029879645387	0.111616345923653	-3.3971838	UP

KEGG_RIBOFLAVIN_METABOLISM	0.111484419 72326	-0.00182418	2.27848780 148494	0.02517463320 75483	0.1214968609 09172	-3.56970958	UP
KEGG_GLYCOPHINGOLIPID_BIOSYNTHESIS_GLOB O_SERIES	0.099459028 7726093	-0.003321	2.07062309 767669	0.04139131657 61004	0.1710841085 14548	-3.97231929	UP
KEGG_RNA_DEGRADATION	0.111947005 70526	0.00549604294 944148	2.00324148 18392	0.04829886969 4127	0.1871581200 64742	-4.09542446	UP
KEGG_UBIQUITIN_MEDIATED_PROTEOLYSIS	-0.08937037	-0.00356483	-2.02385971	0.04608746257 72375	0.1823886816 88642	-4.05814534	DO WN
KEGG_TIGHT_JUNCTION	-0.06200295	0.00026769701 4552938	-2.02974645	0.04547222515 50472	0.1823886816 88642	-4.04743847	DO WN
KEGG_O_GLYCAN_BIOSYNTHESIS	-0.10460031	-0.00550359	-2.11519883	0.03730469201 33189	0.1576971071 47212	-3.88887047	DO WN
KEGG_ACUTE_MYELOID_LEUKEMIA	-0.09319852	-0.00093779	-2.14329276	0.03491263682 1329	0.1510174522 96911	-3.83546053	DO WN
KEGG_ADHERENS_JUNCTION	-0.07668347	-0.00086772	-2.2279159	0.02849492124 57622	0.1261917940 88375	-3.67079987	DO WN
KEGG_TAURINE_AND_HYPOTAURINE_METABOLIS M	-0.15295942	-0.00186969	-2.25235069	0.02684552534 19332	0.1217870174 04868	-3.62220563	DO WN
KEGG_LEUKOCYTE_TRANSENDOTHELIAL_MIGRATI ON	-0.07356109	0.00076360873 9703712	-2.25492159	0.02667695888 16307	0.1217870174 04868	-3.61706564	DO WN
KEGG_B_CELL_RECEPTOR_SIGNALING_PATHWAY	-0.10120934	-0.00651742	-2.27367656	0.02547514825 5149	0.1214968609 09172	-3.57941288	DO WN
KEGG_EPITHELIAL_CELL_SIGNALING_IN_HELICOB ACTER_PYLORI_INFECTION	-0.07975869	0.00137013474 927626	-2.28921703	0.02451569629 75036	0.1214968609 09172	-3.54800608	DO WN
KEGG_VEGF_SIGNALING_PATHWAY	-0.08063097	-0.00226695	-2.29017118	0.02445783947 34761	0.1214968609 09172	-3.54607164	DO WN
KEGG_ENDOMETRIAL_CANCER	-0.08448145	0.00665532149 313595	-2.30858192	0.02336480872 88985	0.1214968609 09172	-3.50860785	DO WN
KEGG_FOCAL_ADHESION	-0.0804051	-0.00039655	-2.38677489	0.01918874677 9293	0.1081547545 74197	-3.34658079	DO WN
KEGG_MTOR_SIGNALING_PATHWAY	-0.06561752	0.00192641889 395371	-2.44184185	0.01666012682 99669	0.0968369871 991828	-3.22966898	DO WN

KEGG_MAPK_SIGNALING_PATHWAY	-0.06488342	-0.00145827	-2.44825795	0.01638576921 15191	0.0968369871 991828	-3.21589751	DO WN
KEGG_STARCH_AND_SUCROSE_METABOLISM	-0.09800507	0.00498095073 216989	-2.49385232	0.01454970875 85494	0.0902081943 030063	-3.11714083	DO WN
KEGG_REGULATION_OF_ACTIN_CYTOSKELETON	-0.07620794	-0.00065393	-2.59172725	0.01121778125 77492	0.0745181183 550484	-2.89990466	DO WN
KEGG_CHEMOKINE_SIGNALING_PATHWAY	-0.08457035	-0.00480891	-2.59415389	0.01114472984 75219	0.0745181183 550484	-2.89442865	DO WN
KEGG_GLYCOLYSIS_GLUONEOGENESIS	-0.10068636	-0.00718233	-2.60741366	0.01075309945 51048	0.0745181183 550484	-2.86443001	DO WN
KEGG_NEUROTROPHIN_SIGNALING_PATHWAY	-0.0890775	0.00080625213 9858221	-2.67994728	0.00882287298 848905	0.0656421750 343585	-2.69805958	DO WN
KEGG_TGF_BETA_SIGNALING_PATHWAY	-0.0768658	0.00099921913 3017789	-2.71831575	0.00793451252 705587	0.0641660578 274953	-2.60851297	DO WN
KEGG_GLIOMA	-0.09072969	0.00328546269 982074	-2.75536076	0.00715491154 158975	0.0604915248 516224	-2.52105344	DO WN
KEGG_OOCYTE_MEIOSIS	-0.07647335	-0.00246144	-2.91147985	0.00458013157 52405	0.0448370775 260386	-2.14182869	DO WN
KEGG_SMALL_CELL_LUNG_CANCER	-0.07301919	0.00165088860 6149	-2.98497948	0.00369169825 303319	0.0381475486 146763	-1.95744691	DO WN
KEGG_T_CELL_RECEPTOR_SIGNALING_PATHWAY	-0.08988277	-0.00438524	-3.02407279	0.00328689480 541437	0.0359624961 062984	-1.85788186	DO WN
KEGG_PATHWAYS_IN_CANCER	-0.06062729	0.00089020989 0723443	-3.12505521	0.00242380925 774425	0.0300552347 960287	-1.59596486	DO WN
KEGG_ENDOCYTOSIS	-0.09748618	-0.0008058	-3.1684679	0.00212204141 232161	0.0281928359 065585	-1.48129917	DO WN
KEGG_BLADDER_CANCER	-0.13404104	0.00212290470 030014	-3.20972955	0.00186805259 54211	0.0267275217 498711	-1.37117965	DO WN
KEGG_NON_SMALL_CELL_LUNG_CANCER	-0.11263054	0.00448077439 234648	-3.26115449	0.00159124254 0706	0.0246642593 80943	-1.23240393	DO WN
KEGG_MELANOMA	-0.11341174	0.00471689816 713994	-3.32441183	0.00130339705 500346	0.0220392592 936949	-1.05939411	DO WN

KEGG_COLORECTAL_CANCER	-0.12833984	0.00641270443 786889	-3.35509602	0.00118210220 535672	0.0219871010 196349	-0.97456805	DO WN
KEGG_LONG_TERM_POTENTIATION	-0.10288947	-0.01054634	-3.41549495	0.00097369614 852555	0.0201230537 361947	-0.8058921	DO WN
KEGG_NOTCH_SIGNALING_PATHWAY	-0.16090726	-0.01879103	-3.66601567	0.00042558393 3215763	0.0098948264 472665	-0.08283108	DO WN
KEGG_PROSTATE_CANCER	-0.0945507	-9.41E-05	-3.70799824	0.00036915132 9958035	0.0098088781 9602779	0.041921321 189788	DO WN
KEGG_AMYOTROPHIC_LATERAL_SCLEROSIS_ALS	-0.11786738	-0.00335035	-3.81471541	0.00025599121 5279141	0.0093520535 2987636	0.363495679 538091	DO WN
KEGG_THYROID_CANCER	-0.15626425	0.00408450295 181379	-3.83488729	0.00023870766 3192571	0.0093520535 2987636	0.424988520 975855	DO WN
KEGG_CHRONIC_MYELOID_LEUKEMIA	-0.17457445	0.00092931735 4092589	-3.90178253	0.00018901616 8097001	0.0093520535 2987636	0.630496725 277738	DO WN
KEGG_PATHOGENIC_ESCHERICHIA_COLI_INFECTION	-0.19650395	-0.00381416	-4.21490063	6.14327147451 707e-05	0.0057132424 7130087	1.623491213 83426	DO WN
KEGG_RENAL_CELL_CARCINOMA	-0.13293674	-0.00321296	-4.31892992	4.18287250099 191e-05	0.0057132424 7130087	1.964180537 26138	DO WN

Table S9. Predicted drugs

Gene	Drug	Approval	Interaction Type	Interaction Score
JUN	NEOCHAMAEJASMIN A	Not Approved	NA	2.26973037212546
JUN	NAFRONYL OXALATE	Not Approved	NA	0.226973037212546
JUN	BRUCEANTIN	Approved	NA	2.26973037212546
JUN	ATOMOXETINE HYDROCHLORIDE	Approved	NA	0.141858148257841
JUN	IRISOLIDONE	Not Approved	NA	2.26973037212546
JUN	MECHLORETHAMINE HYDROCHLORIDE	Approved	NA	0.189144197677121
JUN	CINNARIZINE	Approved	NA	0.206339124738678
JUN	(-)-CAMPHOR	Not Approved	NA	1.13486518606273
JUN	QUINAPRIL HYDROCHLORIDE	Approved	NA	0.378288395354243
JUN	TRIFLUPROMAZINE HYDROCHLORIDE	Approved	NA	0.189144197677121
JUN	CHEMBL:CHEMBL477052	Not Approved	NA	2.26973037212546
JUN	CRIDANIMOD	Not Approved	NA	0.283716296515682
JUN	TROPISETRON	Approved	NA	0.0756576790708486
JUN	EFLORNITHINE	Approved	NA	0.206339124738678
JUN	9-ANTHROIC ACID	Not Approved	NA	0.226973037212546
JUN	COLCHICINE	Approved	NA	0.0218243305012063
JUN	METHIMAZOLE	Approved	NA	0.0540411993363204
JUN	CARBOXYMETHYL-TRIMETHYL- ARSONIUM	Not Approved	NA	1.13486518606273
JUN	PATULIN	Not Approved	NA	0.252192263569495

JUN	BENZO[B]FLUORANTHENE	Not Approved	NA	0.162123598008961
JUN	SERTRALINE HYDROCHLORIDE	Approved	NA	0.113486518606273
JUN	GEMFIBROZIL	Approved	NA	0.174594644009651
JUN	SODIUM SELENITE	Approved	NA	1.13486518606273
JUN	CIPROFIBRATE	Approved	NA	0.567432593031364
JUN	FENOFIBRATE MICRONIZED	Approved	NA	0.0872973220048253
JUN	DIPHENHYDRAMINE HYDROCHLORIDE	Approved	NA	0.283716296515682
JUN	SANGIVAMYCIN	Not Approved	NA	1.13486518606273
JUN	VINBLASTINE SULFATE	Approved	NA	0.0567432593031364
JUN	ARSENIC TRIOXIDE	Approved	NA	0.0436486610024127
JUN	BENZENETHIOL	Not Approved	NA	0.567432593031364
JUN	CLOTRIMAZOLE	Approved	NA	0.0613440641114988
JUN	RETINYLRETINOATE	Not Approved	NA	1.13486518606273
JUN	2-MERCAPTOPYRIMIDINE	Not Approved	NA	1.13486518606273
JUN	SERGEOLIDE	Not Approved	NA	2.26973037212546
JUN	COPPER CHLORIDE	Approved	NA	1.13486518606273
JUN	CLOFIBRATE	Approved	NA	0.141858148257841
JUN	CHEMBL:CHEMBL275260	Not Approved	NA	0.283716296515682
JUN	ISOLIQURITIGENIN	Not Approved	NA	0.189144197677121
JUN	HOLACANTHONE	Not Approved	NA	2.26973037212546
JUN	AZELASTINE HYDROCHLORIDE	Approved	NA	0.283716296515682
JUN	LIPOIC ACID, ALPHA	Not Approved	NA	0.0756576790708486

JUN	BUTINOLINE	Not Approved	NA	1.13486518606273
JUN	VINORELBINE TARTRATE	Not Approved	NA	0.567432593031364
JUN	BUPROPION HYDROCHLORIDE	Approved	NA	0.0667567756507488
JUN	ROTENONE	Not Approved	NA	0.162123598008961
JUN	AMINEPTIN	Approved	NA	0.378288395354243
CTSD	STREPTOZOCIN	Approved	NA	1.13486518606273
CTSD	C3TD879	Not Approved	NA	26.1018992794428

Table S10. Clinical characteristics of patients

Characteristics	Normal (n=10)	Bone loss/Osteoporosis (n=10)	<i>P</i>
Age (year)	62.10 ± 1.37	62.77 ± 1.59	0.291
Male (%)	50%	50%	
SBP (mmHg)	125.30 ± 16.72	138.81 ± 29.11	0.205
DBP (mmHg)	72.10 ± 10.43	89.23 ± 27.02	0.072
BMI (kg/m ²)	24.39 ± 3.37	27.68 ± 7.37	0.451
HbA1c (%)	5.00 ± 0.84	4.87 ± 1.32	0.375
eGFR (mL/min/1.73 m ²)	85.64 ± 16.48	91.11 ± 12.95	0.275
Ca (mmol/L)	2.29 ± 0.13	2.26 ± 0.15	0.746
PTH (pg/mL)	42.64 ± 23.58	42.23 ± 23.01	0.771
N-t OC (ng/mL)	12.5 ± 5.67	14.13 ± 5.78	0.522
TPINP (ng/mL)	37.48 ± 19.98	43.94 ± 15.95	0.398
β-CTX (pg/mL)	421.69 ± 284.03	471.79 ± 208.67	0.630
25 (OH)D (ng/mL)	21.58 ± 4.35	16.8 ± 7.87	0.100
FN BMD (g/cm ²)	-0.22 ± 0.65	-1.9 ± 0.59	<0.01
TH BMD (g/cm ²)	0.46 ± 0.84	-1.40 ± 0.61	<0.01
L1–L4 BMD (g/cm ²)	-0.03 ± 0.83	-1.86 ± 1.19	<0.01
L1–L4 TBS	1.32 ± 0.08	1.24 ± 0.12	0.07

Note: Data are presented as median (interquartile range), mean ± standard deviation. *p* values are derived from T test. Abbreviations: 25(OH)D: 25-hydroxyvitamin D; BMI: body mass index; Ca: calcium; DBP: diastolic blood pressure; eGFR: estimated glomerular filtration rate; FN BMD: femoral neck bone mineral density; HbA1c: glycated hemoglobin; L1–L4 BMD: lumbar spine 1 to 4 bone mineral density; N-t OC: N-terminal osteocalcin; PTH: parathyroid hormone; SBP: systolic blood pressure; TBS: trabecular bone score;

TH BMD: total hip bone mineral density; TPINP: total type I collagen N-terminal propeptide;
β-CTX: type I collagen carboxy-terminal peptide β.