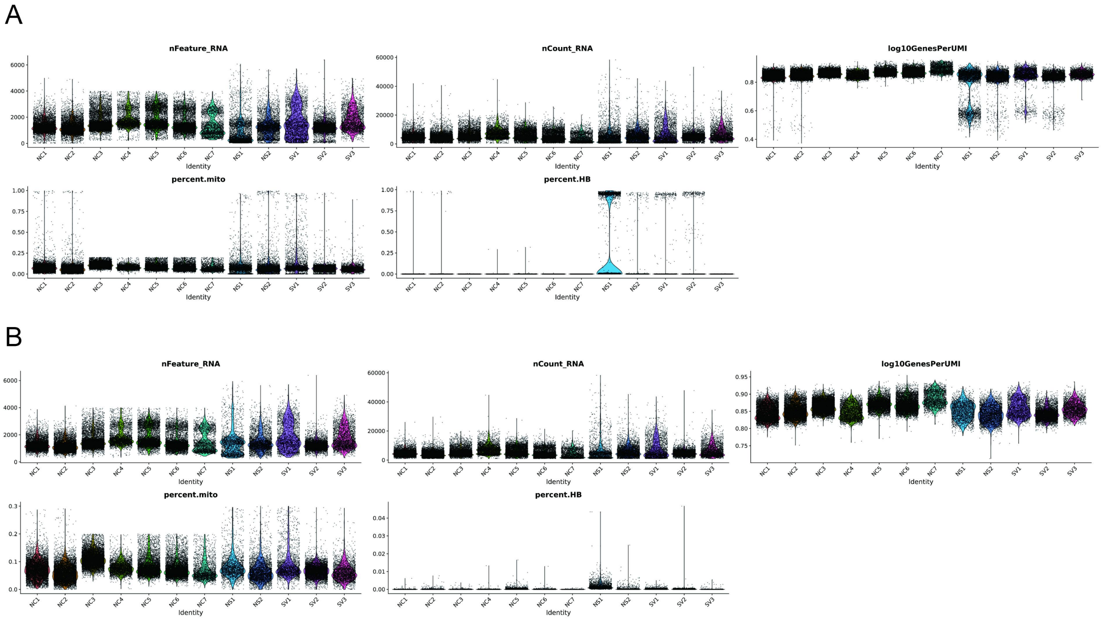
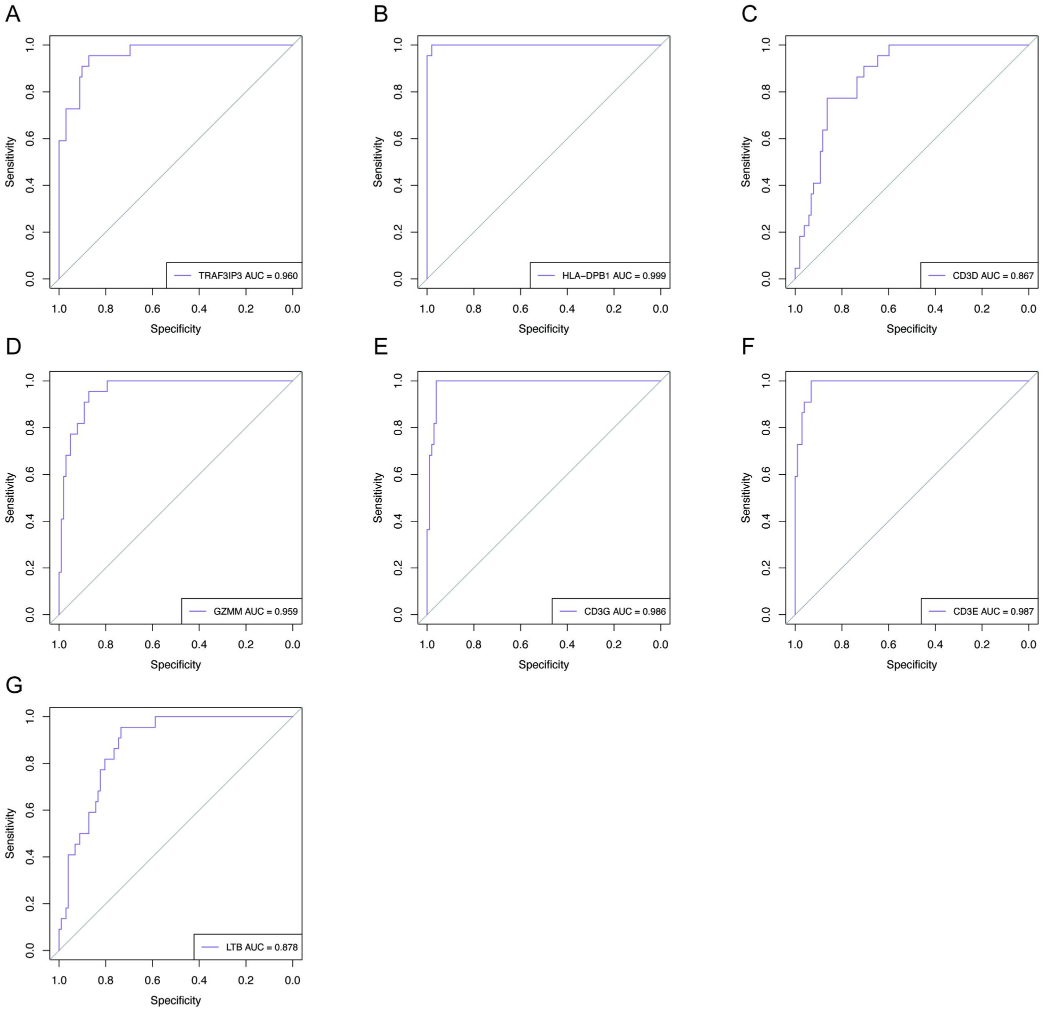


Supplementary Figure 1. Quality control of single-cell RNA sequencing data.

(A) Violin plots showing the initial distribution of quality control (QC) metrics across 12 samples before filtering (NC: normal controls; SE: sepsis). Parameters include the number of detected genes per cell (nFeature_RNA), total UMI counts per cell (nCount_RNA), log10-transformed UMI-to-gene ratio (log10GenesPerUMI), mitochondrial gene proportion (percent.mito), and hemoglobin gene proportion (percent.HB). Notably, some sepsis samples exhibited elevated mitochondrial or hemoglobin expression, indicating potential apoptotic cells or red blood cell contamination.

(B) Violin plots of QC metrics after a three-stage filtering process, including removal of low-quality cells, apoptotic cells, red blood cell contamination, and predicted doublets. The post-QC distributions demonstrate improved data quality and reduced technical artifacts, ensuring the reliability of downstream analyses.



Supplementary Figure 2. Validation of diagnostic performance of core genes.

ROC models were constructed based on the GSE95233 validation cohort (sepsis=102, controls=22). All seven candidate genes exhibited excellent diagnostic performance. HLA-DPB1 showed the highest diagnostic efficacy (AUC=0.999, B), followed by CD3E (AUC=0.987, F) and CD3G (AUC=0.986, E). The AUC values of the other genes were also ≥0.860, including TRAF3IP3 (AUC=0.960, A), CD3D (AUC=0.867, C), GZMM (AUC=0.959, D), and LTB (AUC=0.878, G). These findings indicate that all identified genes possess high diagnostic value and may contribute to the evaluation and optimization of predictive models.

Supplementary table 1. Data sources and availability

Cohort	Dataset ID	Platform	Sample Type	Total sample size	Sample size included	Subjects enrolled	Use of data sets
Discovery cohort	GSE167363	GPL24676	scRNA-seq	12	7	Normal Control (n=2)/survivor of sepsis (n=3)/non-survivor of sepsis (n=2)	Identification of immune cell clusters and T cell subsets
Discovery cohort	GSE220189	GPL30173	scRNA-seq	44	5	Normal Control (n=5)	Identification of immune cell clusters and T cell subsets
Prospective validation cohort	CNP0002611	CNCB	scRNA-seq	4	4	Normal Control (n=2)/survivor of sepsis (n=1)/non-survivor of sepsis (n=1)	Independent validation of clustering and marker genes
Prospective validation cohort	CNP0002611	CNCB	bulk RNA-seq	32	32	Normal Control (n=10)/SEPSIS (n=22)	Independent validation of hub genes and prognostic stratification
External validation cohort	GSE65682	GPL13667	bulk RNA-seq	802	478	SEPSIS (n=478)	Hub gene validation； Survival analysis
External validation cohort	GSE95233	GPL570	bulk RNA-seq	124	124	Normal Control (n=22)/SEPSIS (n=102)	ROC curve analysis
External validation cohort	GSE232753	GPL24676	bulk RNA-seq	28	28	Normal Control (n=8)/SEPSIS (n=20)	Validation of hub gene expression
External validation cohort	GSE69063	GPL19983	bulk RNA-seq	153	52	Normal Control (n=33)/SEPSIS (n=19)	Validation of hub gene expression
External validation cohort	GSE185263	GPL16791	bulk RNA-seq	392	389	Normal Control (n=44)/SEPSIS (n=345)	Validation of hub gene expression
External validation cohort	GSE100159	GPL6884	bulk RNA-seq	47	45	Normal Control (n=12)/SEPSIS (n=33)	Validation of hub gene expression

Supplementary table 2. Clinical information on self-sequencing samples

Specimen number	S011800222	S011800223	S011800224	S011800225	S011800226	S011800227	S011800228	S011800229	S011800230	S011800231
Genders	male	female	male	female	female	male	female	male	female	female
Age	30	28	36	30	29	28	29	29	29	29
Admission Diagnosis	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
diagnostic	Normal Control	Normal Control	Normal Control	Normal Control	Normal Control	Normal Control	Normal Control	Normal Control	Normal Control	Normal Control
Disease grouping (SIRS/sepsis/septic shock/)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
28 Day Finale (Death: 1; Survival: 0)	0	0	0	0	0	0	0	0	0	0
Time of death/end of observation (days after admission)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Location of infection	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Infection Type (microbiology)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Leukocytes (10^9/l)	9.79	5.9	7.28	5.16	5.18	5.93	7.73	7.16	9.89	4.75
Neutrophils (10^9/l)	5.95	3.98	4.78	3.12	3.42	2.78	4.27	4.36	5.84	2.78
Monocytes (10^9/l)	0.54	0.35	0.41	0.31	0.38	0.31	0.53	0.42	0.9	0.28
Lymphocytes (10^9/l)	2.79	1.42	1.93	1.61	1.3	2.21	2.09	2.33	2.98	1.54
PCT(ng/ml)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lactic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SOFA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Specimen number	S011800009	S011800010	S011800011	S011800012	S011800013	S011800014	S011800015	S011800016	S011800020	S011800021	S011800022
Genders	female	male	female	male	female	female	male	male	female	male	male
Age	50	32	66	63	54	16	72	52	73	24	44
Admission Diagnosis	Diffuse axonal injury	Respiratory Failure	Intestinal obstruction	Parapharyngeal Interstitial Infection		Septicemia	Lung Infection	Septic Shock	Peritonitis	Multiple Cerebral Contusions	ARDS
diagnostic	SEPSIS	SEPSIS	SEPSIS	SEPSIS	SEPSIS	SEPSIS	SEPSIS	SEPSIS	SEPSIS	SEPSIS	SEPSIS
Disease grouping (SIRS/sepsis/septic shock/)	septic shock	sepsis	septic shock	septic shock	sepsis	sepsis	sepsis	septic shock	septic shock	sepsis	sepsis
28 Day Finale (Death: 1; Survival: 0)	1	0	1	1	0	0	0	1	1	0	0
Time of death/end of observation (days after admission)	1	28	2	4	28	28	28	1	9	28	28
Location of infection	hematology	Respiratory secretions	hematology	hematology	hematology	hematology	Respiratory secretions	hematology	hematology	Respiratory secretions	Respiratory secretions
Infection Type (microbiology)	gram-negative bacteria	NA	Klebsiella pnenmoniae	gram-negative bacteria	NA	NA	Klebsiella pnenmoniae	Staphylococcus aureus, Acinetobacter baumannii	gram-negative bacteria	NA	NA
Leukocytes (10^9/l)	22.23	5.79	10.9	15.52	29.45	14.04	17.88	17.84	10.66	14.55	7.51
Neutrophils (10^9/l)	15.02	3.8	9.97	14.31	28.6	13.03	16.7	64.1	10.14	11.36	5.2
Monocytes (10^9/l)	0.64	0.53	0.17	0.74	0.29	0.32	0.77	1.94	0.22	1.18	0.44
Lymphocytes (10^9/l)	1.46	1.15	0.63	0.42	0.44	0.44	0.39	4.09	0.23	1.98	1.64
PCT(ng/ml)	81.85	1.03	1.48	77.79	7.76	3.89	4.46	79.15	100	0.15	3.89
Lactic acid	5.54	3.74	NA	NA	2.95	2.78	4.37	3.87	NA	2.41	NA
SOFA	3	2	2	3	2	2	2	3	2	2	2

Specimen number	S011800023	S011800026	S011800027	S011800032	S011800053	S011800054	S011800089	S011800348	S011800416	S011800541	S011800542
Genders	male	male	female	male	male	female	male	male	male	male	female
Age	49	61	66	39	56	78	70	91	62	55	67
Admission Diagnosis	Digestive perforation	Abdominal pain	Acute obstructive cholangitis	Intracranial space-occupying lesions	Skin infections	Esophageal malignancies	Necrotizing cholecystitis with perforation	Maxillofacial gap infection	Aspiration pneumonia	Abdominal pain	Septic shock
diagnostic	SEPSIS	SEPSIS	SEPSIS	SEPSIS	SEPSIS	SEPSIS	SEPSIS	SEPSIS	SEPSIS	SEPSIS	SEPSIS
Disease grouping (SIRS/sepsis/septic shock/)	septic shock	sepsis	sepsis	sepsis	septic shock	sepsis	septic shock	septic shock	sepsis	septic shock	septic shock
28 Day Finale (Death: 1; Survival: 0)	1	0	0	0	1	0	1	1	0	1	1
Time of death/end of observation (days after admission)	8	28	28	28	13	28	4	4	28	12	9
Location of infection	hematology	hematology	hematology	hematology	Wound secretion	hematology	hematology	Wound secretion	Respiratory secretions	hematology	hematology
Infection Type (microbiology)	NA	NA	gram-negative bacteria	NA	Staphylococcus aureus	NA	gram-negative bacteria	Staphylococcus aureus	NA	NA	NA
Leukocytes (10^9/l)	6.37	2.49	11.83	8.8	14.72	27.74	16.88	1.56	15.74	19.59	18.16
Neutrophils (10^9/l)	5.2	2.16	10.68	7.12	13.16	26.94	15.26	1.27	13.74	17.12	13.01
Monocytes (10^9/l)	0.34	0.07	0.58	0.79	0.75	0.36	0.98	0.05	5.2	1.47	0.79
Lymphocytes (10^9/l)	0.59	0.26	0.54	0.77	0.79	0.42	0.59	0.24	7	0.82	0.24
PCT(ng/ml)	10.65	7.45	1.97	6.61	9.85	41.77	30.36	78.77	0.98(10 days later)	37.77	17.55
Lactic acid	2.34	4.56	1.69	NA	5.75	NA	NA	3.25	1.61	NA	NA
SOFA	3	2	2	2	2	2	3	3	2	2	3

Supplementary table 3. Single-cell sequencing results after quality control

sample	Total_cells_beforeQC	Total_cells_afterQC	Total_cells_after_rmdoublets	nFeature_RNA_min	nFeature_RNA_max	nCount_RNA_min	nCount_RNA_max	log10GenesPerUMI_min	log10GenesPerUMI_max	percent.mito_min	percent.mito_max	percent.HB_min	percent.HB_max
NC1	7666	7490	7033	340	4990	1000	41847	0.775006495	0.920093702	0.000931388	0.292612895	0	0.006183249
NC2	8345	8121	7569	297	4903	1001	40551	0.751495324	0.925170772	0	0.290239726	0	0.007636122
NC3	9485	9430	8676	334	3985	1061	23489	0.807390509	0.928983462	0.029659319	0.199759326	0	0.00376506
NC4	3434	3403	3301	340	3993	1022	44693	0.759420745	0.913372616	0.002633889	0.197578991	0	0.013317479
NC5	6577	6454	6112	474	3995	1001	28694	0.770555748	0.945337713	0.011307101	0.199855439	0	0.016531833
NC6	8919	8767	8171	479	3998	1003	25633	0.791365425	0.954688628	0.010912698	0.199688958	0	0.012906769
NC7	2716	2354	2300	431	3977	1001	20170	0.811754194	0.941276491	0.005947955	0.198924731	0	0.000942507
NS1	4106	2249	2197	288	6065	1002	58279	0.77893615	0.922441881	0	0.296193772	0	0.043523316
NS2	4286	3717	3605	244	5639	1000	45363	0.71243391	0.918041584	0	0.3	0	0.02484472
SV1	3248	2553	2494	332	5692	1005	43577	0.756678367	0.935653482	0.000766871	0.299507389	0	0.005
SV2	6963	6634	6282	299	6384	1024	53296	0.787149902	0.910958338	0	0.295046662	0	0.046702317
SV3	2853	2804	2740	305	4974	1022	36710	0.80826933	0.935761667	0	0.292762186	0	0.005410889

Supplementary table 4. all markers for each cluster

gene	p-value	avg_log2FC	pct.1	pct.2	q-value	cluster	gene_diff
RPS12	0	0.916715494	0.998	0.986	0	1	1.012
RPS3A	0	0.889175981	0.997	0.981	0	1	1.016
RPS14	0	0.796808875	0.997	0.982	0	1	1.015
RPL30	0	0.767954864	0.997	0.983	0	1	1.014
RPL32	0	0.796994844	0.997	0.98	0	1	1.017
RPS15A	0	0.766607957	0.997	0.985	0	1	1.012
RPL34	0	0.80711191	0.997	0.98	0	1	1.017
RPS25	0	0.812416815	0.994	0.972	0	1	1.023
RPL13	0	0.716742946	0.998	0.984	0	1	1.014
RPL5	0	0.83893001	0.995	0.962	0	1	1.034
RPS28	0	0.718276481	0.996	0.982	0	1	1.014
RPL35A	0	0.71068432	0.995	0.986	0	1	1.009
RPL14	0	0.769102682	0.995	0.968	0	1	1.028
RPS27A	0	0.716525289	0.997	0.988	0	1	1.009
RPS6	0	0.819852083	0.996	0.971	0	1	1.026
RPS8	0	0.813339061	0.996	0.974	0	1	1.023
TPT1	0	0.626180497	0.998	0.996	0	1	1.002
RPL11	0	0.660655019	0.997	0.981	0	1	1.016
RPS13	0	0.770319357	0.995	0.97	0	1	1.026
RPL9	0	0.683686371	0.996	0.977	0	1	1.019
EEF1B2	0	0.886537756	0.989	0.936	0	1	1.057
RPL36	0	0.728377348	0.995	0.969	0	1	1.027
RPS29	0	0.746285704	0.997	0.981	0	1	1.016
RPL22	0	0.739282971	0.993	0.959	0	1	1.035
RPS3	0	0.696028052	0.996	0.979	0	1	1.017
RPS4X	0	0.695668052	0.995	0.975	0	1	1.021
RPL37	0	0.667496427	0.996	0.983	0	1	1.013
IL7R	0	1.303529478	0.863	0.252	0	1	3.425
RPL21	0	0.690714127	0.996	0.988	0	1	1.008
RPL24	0	0.616220491	0.992	0.966	0	1	1.027
RPS27	0	0.683580305	0.998	0.993	0	1	1.005
RPS18	0	0.659713268	0.997	0.974	0	1	1.024
LDHB	0	1.141038225	0.895	0.504	0	1	1.776
RPL39	0	0.619435079	0.995	0.983	0	1	1.012
RPL38	0	0.715324466	0.993	0.951	0	1	1.044
RPL10	0	0.566626785	0.998	0.991	0	1	1.007
SARAF	0	0.887073102	0.976	0.83	0	1	1.176
PIK3IP1	0	1.252075804	0.827	0.366	0	1	2.26
RPS21	0	0.779488023	0.996	0.958	0	1	1.04
LEPROTL1	0	1.134593271	0.859	0.44	0	1	1.952
RPL10A	0	0.663739945	0.993	0.954	0	1	1.041
RPL19	0	0.593762877	0.996	0.978	0	1	1.018
RPLP2	0	0.593978777	0.996	0.978	0	1	1.018
RPL18	0	0.581175894	0.995	0.972	0	1	1.024
RPS23	0	0.601770947	0.996	0.975	0	1	1.022
EEF1A1	0	0.585798136	0.999	0.987	0	1	1.012
RPS16	0	0.64897952	0.994	0.967	0	1	1.028
RPL28	0	0.519202837	0.997	0.987	0	1	1.01
RPL3	0	0.63011777	0.996	0.968	0	1	1.029
RPS5	0	0.702545333	0.992	0.948	0	1	1.046
RPS15	0	0.492547271	0.995	0.981	0	1	1.014
CCR7	0	1.167320254	0.69	0.197	0	1	3.503
RPL6	0	0.550823899	0.994	0.972	0	1	1.023
NPM1	0	0.784324784	0.962	0.832	0	1	1.156
RPSA	0	0.64352148	0.993	0.949	0	1	1.046
RPS10	0	0.588490312	0.989	0.951	0	1	1.04
RPL29	0	0.503502998	0.995	0.977	0	1	1.018
RPL12	0	0.501975716	0.995	0.975	0	1	1.021
CD3D	0	0.881846746	0.772	0.283	0	1	2.728
TCF7	0	1.118396968	0.653	0.218	0	1	2.995
RPL37A	0	0.477693771	0.995	0.979	0	1	1.016
RPL41	0	0.4365161	0.997	0.993	0	1	1.004
MAL	0	1.160105766	0.529	0.09	0	1	5.878
RPL27A	0	0.542354858	0.992	0.959	0	1	1.034
TOMM7	0	0.615698443	0.973	0.893	0	1	1.09
CD3E	0	0.756542488	0.807	0.327	0	1	2.468
RPL7A	0	0.430968274	0.994	0.975	0	1	1.019
LTB	0	0.794787541	0.893	0.488	0	1	1.83
NACA	0	0.438013492	0.992	0.973	0	1	1.02
C12orf57	0	0.825441038	0.841	0.536	0	1	1.569
RPS7	0	0.420148031	0.995	0.976	0	1	1.019
LEF1	0	1.136893012	0.491	0.072	0	1	6.819
RPL23	0	0.751394403	0.977	0.917	0	1	1.065
RPS2	0	0.459231911	0.997	0.976	0	1	1.022
NOSIP	0	1.091232155	0.617	0.244	0	1	2.529
RPL31	0	0.728296726	0.94	0.863	0	1	1.089
EIF3E	0	0.697917573	0.892	0.706	0	1	1.263
RPLP1	0	0.420440142	0.998	0.993	0	1	1.005
RCAN3	0	0.962221134	0.561	0.178	0	1	3.152
SNHG8	0	0.78249874	0.851	0.631	0	1	1.349
RPL26	0	0.359787291	0.995	0.976	0	1	1.019
RPS19	0	0.408390847	0.997	0.977	0	1	1.02
GYPC	0	0.758704422	0.755	0.487	0	1	1.55
RPL7	0	0.541696595	0.98	0.946	0	1	1.036
RPL18A	0	0.3708065	0.997	0.97	0	1	1.028
RPLP0	0	0.581349476	0.979	0.928	0	1	1.055
RPS9	0	0.336473797	0.995	0.981	0	1	1.014
RPS24	0	0.322736528	0.995	0.981	0	1	1.014
RPL27	0	0.379291887	0.989	0.962	0	1	1.028
RPL4	0	0.463763149	0.979	0.926	0	1	1.057
EEF1D	0	0.406799351	0.986	0.954	0	1	1.034
RACK1	0	0.425151772	0.988	0.958	0	1	1.031
CD3G	0	0.775943197	0.598	0.232	0	1	2.578
RPL23A	0	0.397961947	0.993	0.965	0	1	1.029
RPS26	0	0.792189654	0.971	0.936	0	1	1.037
NOP53	0	0.488865791	0.934	0.795	0	1	1.175
RPL36A	0	0.539572977	0.927	0.792	0	1	1.17
NDFIP1	0	0.727878493	0.606	0.342	0	1	1.772
RPS20	0	0.674658797	0.941	0.897	0	1	1.049
TRAC	0	0.705697389	0.584	0.247	0	1	2.364
TRBC2	0	0.732415968	0.657	0.353	0	1	1.861
SATB1	0	0.758868428	0.486	0.197	0	1	2.467
GIMAP7	0	0.81986561	0.543	0.259	0	1	2.097
IKZF1	0	0.634137509	0.722	0.503	0	1	1.435
BTF3	0	0.377606197	0.97	0.927	0	1	1.046
RGS10	0	0.246789282	0.648	0.393	0	1	1.649
UQCRB	0	0.426990648	0.942	0.862	0	1	1.093
RPL8	0	0.301775709	0.994	0.973	0	1	1.022
COX7C	0	0.436303963	0.943	0.86	0	1	1.097
ETS1	0	0.595563669	0.684	0.393	0	1	1.74
RPL15	0	0.271104264	0.993	0.981	0	1	1.012
BCL11B	0	0.753956343	0.432	0.143	0	1	3.021
COMMD6	0	0.463614976	0.9	0.783	0	1	1.149
ZFP36L2	0	0.42453081	0.895	0.726	0	1	1.233
MGAT4A	0	0.588183605	0.593	0.332	0	1	1.786
RPL35	0	0.304188047	0.993	0.963	0	1	1.031
CAMK4	0	0.752786677	0.366	0.086	0	1	4.256
CD7	0	0.310128743	0.626	0.303	0	1	2.066
TRABD2A	0	0.755945006	0.343	0.07	0	1	4.9
OXNAD1	0	0.705995658	0.37	0.097	0	1	3.814
PDE3B	0	0.699628894	0.402	0.133	0	1	3.023
IL32	0	0.120263658	0.666	0.314	0	1	2.121
SOD1	0	0.46350581	0.725	0.513	0	1	1.413
CD2	0	0.466022722	0.539	0.249	0	1	2.165
RPL13A	0	0.416959111	0.986	0.963	0	1	1.024
NSA2	0	0.483192873	0.774	0.617	0	1	1.254
UBA52	0	0.242927526	0.991	0.981	0	1	1.01
FOXP1	0	0.411079703	0.752	0.545	0	1	1.38
PRMT2	0	0.596923942	0.539	0.326	0	1	1.653
MALAT1	0	0.398201834	0.999	0.981	0	1	1.018
UXT	0	0.432417436	0.768	0.619	0	1	1.241
HNRNPA1	0	0.312560556	0.959	0.901	0	1	1.064
FAU	0	0.196164136	0.993	0.985	0	1	1.008
ST13	0	0.500542842	0.65	0.473	0	1	1.374
TOMM20	0	0.4272076	0.782	0.651	0	1	1.201
CD27	0	0.698514053	0.338	0.105	0	1	3.219
NELL2	0	0.677118243	0.286	0.053	0	1	5.396
TSHZ2	0	0.795159826	0.261	0.036	0	1	7.25
SVIP	0	0.457180411	0.489	0.267	0	1	1.831
SH3YL1	0	0.609438872	0.32	0.102	0	1	3.137
ITK	0	0.587352339	0.328	0.105	0	1	3.124
SFXN1	0	0.552213427	0.359	0.143	0	1	2.51
ATM	0	0.513192313	0.562	0.368	0	1	1.527
TXK	0	0.576938476	0.301	0.081	0	1	3.716
CD6	0	0.484568838	0.356	0.138	0	1	2.58
TRBC1	0	0.624437723	0.432	0.215	0	1	2.009
SPOCK2	0	0.354395979	0.524	0.287	0	1	1.826
LINC00861	0	0.641176012	0.29	0.084	0	1	3.452
NAP1L4	0	0.482377962	0.434	0.243	0	1	1.786
CD8B	0	0.779431213	0.293	0.092	0	1	3.185
OCIAD2	0	0.42814011	0.454	0.245	0	1	1.853
NUCB2	0	0.508299915	0.371	0.181	0	1	2.05
BEX2	0	0.452836554	0.346	0.146	0	1	2.37
LCK	0	0.427432052	0.426	0.221	0	1	1.928
TESPA1	0	0.53344144	0.254	0.064	0	1	3.969
SEPT1	0	0.421612382	0.42	0.234	0	1	1.795
PRKCA	0	0.530029029	0.268	0.085	0	1	3.153
TNFRSF25	0	0.500381827	0.264	0.077	0	1	3.429
IL6ST	0	0.510929581	0.333	0.161	0	1	2.068
MAML2	0	0.523919911	0.286	0.109	0	1	2.624
APBA2	0	0.44921527	0.252	0.067	0	1	3.761
ITM2A	0	0.374612664	0.357	0.168	0	1	2.125
AC026979.2	0	0.45785011	0.336	0.163	0	1	2.061
SGTB	0	0.458387029	0.305	0.145	0	1	2.103
SELENOM	0	0.400281144	0.305	0.135	0	1	2.259
FLT3LG	0	0.461418146	0.268	0.102	0	1	2.627
ITPKB	0	0.441371261	0.289	0.127	0	1	2.276
ABLIM1	0	0.437861302	0.256	0.093	0	1	2.753
SERINC5	0	0.490798642	0.262	0.109	0	1	2.404
ARMH1	0	0.464343022	0.282	0.132	0	1	2.136
LINC01089	0	0.448093337	0.291	0.141	0	1	2.064
ZNF101	0	0.412039456	0.256	0.106	0	1	2.415
PDCD4	1.65E-299	0.577791347	0.64	0.487	5.52E-295	1	1.314
CD247	9.74E-298	0.063972038	0.536	0.29	3.27E-293	1	1.848
LBH	1.22E-290	0.406632747	0.292	0.138	4.10E-286	1	2.116
GCC2	2.01E-288	0.483153362	0.577	0.397	6.74E-284	1	1.453
ZEB1	3.43E-284	0.340132619	0.253	0.113	1.15E-279	1	2.239
EIF4B	1.63E-282	0.410453026	0.751	0.602	5.45E-278	1	1.248
CD48	3.86E-279	0.36709716	0.881	0.761	1.29E-274	1	1.158
DDX18	3.97E-277	0.435552185	0.504	0.331	1.33E-272	1	1.523
HSP90AB1	1.47E-271	0.337555937	0.862	0.747	4.94E-267	1	1.154
HINT1	1.22E-263	0.299530792	0.935	0.863	4.08E-259	1	1.083
TOB1	9.49E-263	0.440152344	0.397	0.239	3.18E-258	1	1.661
RSL1D1	1.65E-258	0.420672873	0.626	0.467	5.53E-254	1	1.34
EIF3H	6.15E-258	0.373714071	0.818	0.696	2.06E-253	1	1.175
RPS4Y1	1.43E-254	0.710382459	0.545	0.452	4.81E-250	1	1.206
SNHG25	2.21E-254	0.424461951	0.433	0.273	7.42E-250	1	1.586
AAK1	1.02E-252	0.443844617	0.586	0.412	3.43E-248	1	1.422
MZT2B	3.11E-251	0.347840852	0.807	0.673	1.04E-246	1	1.199
TXNIP	2.78E-250	0.411867728	0.964	0.91	9.33E-246	1	1.059
EPB41L4A-AS1	3.44E-245	0.395994952	0.581	0.416	1.15E-240	1	1.397
TMEM123	7.28E-245	0.311053023	0.68	0.508	2.44E-240	1	1.339
PPA1	5.15E-242	0.413994704	0.49	0.333	1.73E-237	1	1.471
PNRC1	1.01E-235	0.357877756	0.862	0.786	3.38E-231	1	1.097
TGFBR2	6.59E-235	0.425491486	0.378	0.234	2.21E-230	1	1.615
HSPB1	2.17E-234	0.297831657	0.305	0.165	7.27E-230	1	1.848
PEBP1	1.33E-231	0.370831796	0.613	0.446	4.47E-227	1	1.374
C6orf48	1.55E-231	0.402446887	0.515	0.361	5.20E-227	1	1.427
GIMAP1	1.78E-231	0.476219634	0.282	0.154	5.98E-227	1	1.831
LAT	5.23E-230	0.263885235	0.34	0.186	1.75E-225	1	1.828
DDX24	4.71E-226	0.375408001	0.726	0.586	1.58E-221	1	1.239
MZT2A	1.64E-215	0.355922257	0.527	0.362	5.50E-211	1	1.456
PSIP1	1.26E-214	0.381366589	0.434	0.279	4.22E-210	1	1.556
NCK2	7.10E-209	0.252720631	0.39	0.233	2.38E-204	1	1.674
FYB1	1.12E-205	0.389462783	0.627	0.455	3.76E-201	1	1.378
CCDC66	3.37E-196	0.335337734	0.28	0.156	1.13E-191	1	1.795
COX4I1	5.08E-190	0.237153047	0.962	0.934	1.70E-185	1	1.03
TMEM238	4.61E-184	0.282802897	0.276	0.152	1.55E-179	1	1.816
DNAJB1	1.72E-181	0.281126346	0.439	0.287	5.76E-177	1	1.53
SNRPN	9.02E-169	0.243594458	0.377	0.235	3.03E-164	1	1.604
GIMAP4	9.93E-166	0.435595741	0.324	0.206	3.33E-161	1	1.573
SNRPD2	3.04E-165	0.319405968	0.676	0.559	1.02E-160	1	1.209
C1QBP	2.39E-161	0.317471186	0.525	0.392	8.02E-157	1	1.339
HSPA8	2.23E-159	0.268856374	0.687	0.538	7.47E-155	1	1.277
SLFN5	2.63E-159	0.322357099	0.261	0.15	8.82E-155	1	1.74
GSPT1	2.52E-157	0.388288735	0.325	0.212	8.44E-153	1	1.533
EVL	4.76E-156	0.314555835	0.577	0.422	1.60E-151	1	1.367
RARRES3	1.45E-153	0.178859476	0.541	0.379	4.87E-149	1	1.427
CRYBG1	4.58E-153	0.398203029	0.283	0.175	1.54E-148	1	1.617
BTG1	8.90E-151	0.11081195	0.988	0.924	2.99E-146	1	1.069
DYRK2	1.91E-149	0.28817408	0.264	0.156	6.39E-145	1	1.692
EIF2S3	4.63E-146	0.314229769	0.582	0.457	1.55E-141	1	1.274
RPS17	5.21E-146	0.400704944	0.602	0.494	1.75E-141	1	1.219
FKBP5	9.41E-144	0.29554299	0.328	0.214	3.16E-139	1	1.533
ANP32B	4.06E-140	0.28386368	0.739	0.623	1.36E-135	1	1.186
KIF2A	1.88E-139	0.158325756	0.36	0.235	6.32E-135	1	1.532
SNHG7	2.00E-138	0.254702627	0.509	0.376	6.72E-134	1	1.354
PABPC1	1.87E-137	0.201997609	0.952	0.887	6.28E-133	1	1.073
ATF7IP2	1.82E-136	0.27774051	0.339	0.222	6.11E-132	1	1.527
PRDX2	1.03E-135	0.285009876	0.382	0.261	3.47E-131	1	1.464
TMEM243	3.78E-130	0.268610589	0.425	0.3	1.27E-125	1	1.417
MPHOSPH8	1.03E-129	0.305072666	0.441	0.316	3.47E-125	1	1.396
NAP1L1	1.35E-128	0.138171309	0.781	0.68	4.54E-124	1	1.149
RHOH	1.16E-126	0.198130758	0.47	0.317	3.90E-122	1	1.483
CHD3	1.76E-121	0.288610843	0.279	0.181	5.92E-117	1	1.541
ZFAS1	3.74E-119	0.211142805	0.865	0.774	1.26E-114	1	1.118
LSM5	8.84E-116	0.269480195	0.398	0.289	2.96E-111	1	1.377
IFITM1	5.90E-115	0.103674779	0.487	0.332	1.98E-110	1	1.467
SEPT6	8.22E-114	0.308111949	0.494	0.385	2.76E-109	1	1.283
BIRC3	5.95E-112	0.249932807	0.382	0.268	2.00E-107	1	1.425
AES	8.73E-112	0.187026473	0.865	0.771	2.93E-107	1	1.122
RPS11	9.80E-111	0.144103185	0.986	0.968	3.29E-106	1	1.019
CLEC2D	1.37E-110	0.230482007	0.459	0.323	4.59E-106	1	1.421
NUDT16L1	2.84E-109	0.234482199	0.27	0.175	9.52E-105	1	1.543
CDC42SE2	2.86E-107	0.221305081	0.698	0.587	9.59E-103	1	1.189
ZRANB2	7.74E-107	0.303919955	0.443	0.337	2.60E-102	1	1.315
FBL	4.03E-105	0.256344212	0.419	0.313	1.35E-100	1	1.339
N4BP2L2	2.95E-104	0.278623588	0.672	0.56	9.88E-100	1	1.2
ILF3-DT	3.88E-104	0.266026675	0.264	0.174	1.30E-99	1	1.517
BEX4	5.42E-103	0.201728292	0.32	0.217	1.82E-98	1	1.475
ABCE1	9.62E-100	0.219933852	0.263	0.173	3.22E-95	1	1.52
ALKBH7	3.68E-97	0.266776367	0.455	0.355	1.23E-92	1	1.282
RNF125	3.35E-95	0.20095711	0.338	0.232	1.13E-90	1	1.457
TNRC6B	2.99E-94	0.261757321	0.498	0.388	1.00E-89	1	1.284
RPL17	4.09E-93	0.236410955	0.656	0.558	1.37E-88	1	1.176
CIRBP	1.92E-92	0.149200968	0.902	0.847	6.43E-88	1	1.065
MCUB	2.80E-92	0.268159581	0.43	0.337	9.38E-88	1	1.276
SELL	6.51E-92	0.275664161	0.473	0.368	2.18E-87	1	1.285
STK17A	1.18E-90	0.164285131	0.619	0.482	3.97E-86	1	1.284
WHAMM	1.03E-87	0.237212373	0.412	0.312	3.45E-83	1	1.321
SBDS	1.45E-85	0.220463526	0.565	0.466	4.87E-81	1	1.212
TNFAIP3	1.86E-85	0.172321213	0.509	0.397	6.23E-81	1	1.282
MTERF4	2.17E-83	0.223126908	0.301	0.213	7.28E-79	1	1.413
TECR	1.80E-80	0.212477883	0.337	0.247	6.04E-76	1	1.364
SSR2	6.52E-80	0.192519738	0.753	0.66	2.19E-75	1	1.141
MALT1	2.56E-79	0.234320756	0.286	0.205	8.57E-75	1	1.395
UGP2	2.35E-78	0.204908655	0.254	0.175	7.88E-74	1	1.451
TRAF3IP3	4.47E-78	0.350900371	0.385	0.309	1.50E-73	1	1.246
ACAP1	1.28E-76	0.240475213	0.451	0.353	4.29E-72	1	1.278
TBC1D15	3.76E-76	0.207659873	0.285	0.203	1.26E-71	1	1.404
SF1	9.75E-76	0.187108342	0.805	0.732	3.27E-71	1	1.1
TTC3	1.94E-75	0.233902876	0.427	0.336	6.50E-71	1	1.271
GABPB1-AS1	6.07E-75	0.232577972	0.397	0.303	2.04E-70	1	1.31
NSMCE3	1.14E-73	0.183675161	0.383	0.283	3.81E-69	1	1.353
BCL2	6.69E-73	0.205403898	0.309	0.218	2.24E-68	1	1.417
RORA	1.54E-71	0.03625797	0.381	0.259	5.18E-67	1	1.471
ANKRD12	6.49E-71	0.204354454	0.722	0.636	2.18E-66	1	1.135
NUCKS1	1.07E-70	0.190190844	0.581	0.487	3.59E-66	1	1.193
SMDT1	1.12E-70	0.210701483	0.662	0.581	3.76E-66	1	1.139
SEMA4D	1.15E-69	0.221333426	0.267	0.194	3.86E-65	1	1.376
NOP58	2.07E-69	0.189640092	0.347	0.258	6.96E-65	1	1.345
RSL24D1	2.48E-69	0.192606525	0.693	0.62	8.31E-65	1	1.118
ATXN7L3B	3.35E-69	0.219557195	0.29	0.213	1.12E-64	1	1.362
NECAP2	1.34E-68	0.245694186	0.321	0.246	4.48E-64	1	1.305
SINHCAF	8.17E-68	0.185973684	0.297	0.216	2.74E-63	1	1.375
URI1	1.00E-67	0.195149261	0.356	0.272	3.37E-63	1	1.309
TNFAIP8	2.43E-65	0.238651564	0.389	0.31	8.16E-61	1	1.255
MHENCR	7.29E-65	0.205838969	0.261	0.188	2.44E-60	1	1.388
MRPL57	1.27E-64	0.2027533	0.377	0.297	4.25E-60	1	1.269
TMA7	4.29E-64	0.111603122	0.923	0.871	1.44E-59	1	1.06
KLF2	2.12E-63	0.06980433	0.873	0.791	7.11E-59	1	1.104
ATP6V1G1	1.69E-62	0.153051097	0.812	0.728	5.66E-58	1	1.115
CDKN1B	2.68E-61	0.200483394	0.362	0.281	8.99E-57	1	1.288
RPL36AL	5.84E-59	0.125400232	0.953	0.913	1.96E-54	1	1.044
EPB41	3.77E-58	0.195167154	0.344	0.265	1.26E-53	1	1.298
LIMD2	1.17E-57	0.157852722	0.819	0.736	3.91E-53	1	1.113
EIF3F	1.92E-57	0.153970432	0.823	0.754	6.44E-53	1	1.092
DDX6	2.07E-57	0.160812579	0.586	0.505	6.96E-53	1	1.16
RBL2	4.49E-57	0.210085968	0.266	0.198	1.51E-52	1	1.343
ATP5PO	1.81E-56	0.192789783	0.644	0.569	6.08E-52	1	1.132
HAX1	7.96E-56	0.197207463	0.277	0.21	2.67E-51	1	1.319
HIST1H4C	2.66E-55	0.137087371	0.403	0.318	8.93E-51	1	1.267
FAM107B	1.97E-54	0.133282598	0.639	0.557	6.60E-50	1	1.147
PHF3	7.61E-54	0.208641838	0.423	0.35	2.55E-49	1	1.209
PPP1R2	5.02E-52	0.189222339	0.508	0.434	1.68E-47	1	1.171
SNRPF	1.43E-51	0.177155829	0.527	0.452	4.79E-47	1	1.166
RBMX	2.71E-51	0.183938869	0.494	0.421	9.09E-47	1	1.173
ARID5A	9.04E-49	0.159107634	0.383	0.307	3.03E-44	1	1.248
SKAP1	1.37E-48	0.089511999	0.278	0.199	4.58E-44	1	1.397
TTC39C	1.81E-48	0.186541786	0.281	0.217	6.08E-44	1	1.295
CMPK1	2.14E-47	0.151506821	0.479	0.407	7.19E-43	1	1.177
ZBTB20	3.17E-47	0.195110565	0.281	0.215	1.06E-42	1	1.307
RNMT	1.85E-46	0.136944153	0.551	0.474	6.21E-42	1	1.162
SERBP1	1.86E-46	0.164171081	0.649	0.583	6.23E-42	1	1.113
APEX1	4.79E-46	0.187014389	0.364	0.301	1.61E-41	1	1.209
TUT4	6.89E-46	0.151798664	0.355	0.278	2.31E-41	1	1.277
TRMT10C	7.67E-46	0.139271835	0.274	0.208	2.57E-41	1	1.317
G3BP2	5.09E-45	0.178581424	0.457	0.391	1.71E-40	1	1.169
CHURC1	5.31E-45	0.204741477	0.401	0.339	1.78E-40	1	1.183
TSTD1	1.37E-44	0.118663444	0.371	0.288	4.60E-40	1	1.288
EIF4A2	2.45E-43	0.148094397	0.651	0.582	8.23E-39	1	1.119
CUTA	2.72E-40	0.154238821	0.512	0.446	9.13E-36	1	1.148
ANAPC16	1.84E-39	0.181999237	0.548	0.488	6.16E-35	1	1.123
TAF1D	2.00E-39	0.138265683	0.499	0.43	6.72E-35	1	1.16
C19orf53	2.00E-39	0.172001874	0.606	0.55	6.72E-35	1	1.102
CCT3	2.31E-39	0.165526552	0.331	0.272	7.75E-35	1	1.217
EIF3M	3.02E-39	0.151305826	0.571	0.505	1.01E-34	1	1.131
TMPO	4.18E-39	0.144752396	0.302	0.24	1.40E-34	1	1.258
PRRC2C	5.92E-39	0.136003438	0.727	0.679	1.98E-34	1	1.071
SNRPA1	6.75E-39	0.140338019	0.422	0.356	2.26E-34	1	1.185
KIAA1551	1.43E-38	0.193374329	0.426	0.364	4.80E-34	1	1.17
NDUFC1	6.03E-38	0.151132483	0.373	0.312	2.02E-33	1	1.196
AC044849.1	1.56E-37	0.108810419	0.253	0.19	5.24E-33	1	1.332
TSPYL2	2.20E-37	0.104352419	0.271	0.207	7.37E-33	1	1.309
EIF2A	3.82E-37	0.153250094	0.358	0.299	1.28E-32	1	1.197
ARRDC3	4.86E-37	0.149783353	0.323	0.264	1.63E-32	1	1.223
SNX9	5.32E-37	0.103113076	0.318	0.254	1.79E-32	1	1.252
SON	4.35E-36	0.114531255	0.764	0.712	1.46E-31	1	1.073
COX6C	5.96E-36	0.099171023	0.815	0.745	2.00E-31	1	1.094
C11orf58	6.07E-36	0.117247936	0.64	0.575	2.04E-31	1	1.113
ZC3HAV1	6.26E-36	0.163392863	0.356	0.294	2.10E-31	1	1.211
WDR74	8.71E-36	0.119003764	0.265	0.208	2.92E-31	1	1.274
ISCU	1.03E-35	0.122591958	0.557	0.496	3.46E-31	1	1.123
PNISR	1.06E-35	0.122031847	0.785	0.715	3.56E-31	1	1.098
MBNL1	1.76E-35	0.130030128	0.657	0.587	5.91E-31	1	1.119
MXI1	6.63E-34	0.128768073	0.272	0.217	2.22E-29	1	1.253
EIF3K	7.22E-34	0.113471919	0.87	0.811	2.42E-29	1	1.073
SNHG9	9.09E-34	0.138893621	0.476	0.415	3.05E-29	1	1.147
TFAM	1.36E-33	0.137441096	0.26	0.207	4.56E-29	1	1.256
CNOT6L	2.44E-33	0.103480054	0.42	0.349	8.18E-29	1	1.203
KMT2A	2.56E-33	0.145318333	0.346	0.285	8.60E-29	1	1.214
SEC62	1.05E-31	0.12824154	0.603	0.546	3.53E-27	1	1.104
EEF2	2.78E-31	0.094339237	0.906	0.845	9.33E-27	1	1.072
ARHGAP15	1.08E-30	0.139494226	0.285	0.229	3.63E-26	1	1.245
TRAPPC6A	1.94E-30	0.122558519	0.26	0.209	6.50E-26	1	1.244
NIFK	2.92E-30	0.13309187	0.273	0.223	9.79E-26	1	1.224
CCND3	5.79E-30	0.00284433	0.472	0.402	1.94E-25	1	1.174
AIMP1	9.16E-30	0.14198173	0.35	0.298	3.07E-25	1	1.174
ANKRD49	1.26E-29	0.130430514	0.283	0.23	4.22E-25	1	1.23
ZC3H7A	3.17E-29	0.158947315	0.271	0.226	1.06E-24	1	1.199
KRR1	3.90E-29	0.105612144	0.398	0.334	1.31E-24	1	1.192
PABPC4	1.39E-27	0.129796403	0.362	0.313	4.66E-23	1	1.157
RIPOR2	1.62E-27	0.150599741	0.457	0.407	5.43E-23	1	1.123
FAM177A1	2.84E-27	0.128622598	0.292	0.242	9.52E-23	1	1.207
TTC14	1.24E-26	0.132458287	0.305	0.254	4.16E-22	1	1.201
CYTIP	6.80E-26	0.080661544	0.581	0.514	2.28E-21	1	1.13
SRSF10	2.29E-25	0.109286265	0.536	0.485	7.69E-21	1	1.105
ADD3	1.35E-24	0.140406081	0.37	0.322	4.54E-20	1	1.149
NOL7	5.30E-24	0.101959887	0.462	0.407	1.78E-19	1	1.135
SLC38A1	5.91E-24	0.029567749	0.393	0.315	1.98E-19	1	1.248
WDR33	8.77E-24	0.115096104	0.301	0.253	2.94E-19	1	1.19
SIVA1	1.17E-23	0.109634823	0.456	0.406	3.94E-19	1	1.123
EXOSC6	1.33E-23	0.099919893	0.356	0.304	4.45E-19	1	1.171
NME3	7.14E-23	0.1459079	0.312	0.271	2.39E-18	1	1.151
CCT4	3.99E-22	0.118119005	0.344	0.3	1.34E-17	1	1.147
PTGES3	5.81E-22	0.094713278	0.609	0.551	1.95E-17	1	1.105
ATP5MG	7.93E-22	0.072685004	0.904	0.849	2.66E-17	1	1.065
VAMP2	3.46E-21	0.081561485	0.678	0.624	1.16E-16	1	1.087
CAMLG	6.71E-21	0.103252866	0.414	0.369	2.25E-16	1	1.122
STAT3	9.04E-21	0.113178178	0.444	0.401	3.03E-16	1	1.107
CRBN	1.29E-20	0.09228899	0.355	0.309	4.33E-16	1	1.149
VPS51	3.04E-20	0.109654791	0.336	0.293	1.02E-15	1	1.147
TBC1D10C	4.88E-20	0.109737383	0.338	0.292	1.64E-15	1	1.158
BIRC2	5.91E-20	0.124737175	0.351	0.312	1.98E-15	1	1.125
APRT	7.44E-20	0.094930976	0.664	0.607	2.49E-15	1	1.094
UBXN1	8.94E-20	0.100792028	0.642	0.592	3.00E-15	1	1.084
C9orf78	9.21E-20	0.087552035	0.524	0.475	3.09E-15	1	1.103
NCL	2.64E-19	0.05112046	0.693	0.649	8.87E-15	1	1.068
PDCD2	9.40E-19	0.111930638	0.272	0.236	3.15E-14	1	1.153
HNRNPA0	1.36E-18	0.066005274	0.601	0.554	4.57E-14	1	1.085
PHF1	3.42E-18	0.056087942	0.278	0.229	1.15E-13	1	1.214
GPBP1	7.47E-18	0.072121751	0.531	0.484	2.51E-13	1	1.097
MED10	9.54E-18	0.064123043	0.495	0.443	3.20E-13	1	1.117
REX1BD	1.06E-17	0.12410337	0.401	0.364	3.57E-13	1	1.102
RAN	1.87E-17	0.068102014	0.64	0.587	6.28E-13	1	1.09
CCT2	3.71E-17	0.077599002	0.298	0.256	1.24E-12	1	1.164
CYLD	6.27E-17	0.100948306	0.518	0.471	2.10E-12	1	1.1
CREBRF	7.27E-17	0.087891899	0.423	0.379	2.44E-12	1	1.116
BAZ1A	1.93E-16	0.141636049	0.341	0.309	6.46E-12	1	1.104
SOCS3	1.93E-16	0.123292455	0.277	0.242	6.48E-12	1	1.145
SMIM26	2.23E-16	0.097535095	0.425	0.385	7.46E-12	1	1.104
GTF3A	2.84E-16	0.052027789	0.651	0.602	9.54E-12	1	1.081
TPR	2.85E-16	0.134357136	0.339	0.305	9.55E-12	1	1.111
HSPD1	2.88E-16	0.110211184	0.267	0.234	9.65E-12	1	1.141
ORMDL1	5.51E-16	0.113161062	0.418	0.381	1.85E-11	1	1.097
UBE2B	9.99E-16	0.076888849	0.569	0.525	3.35E-11	1	1.084
LUC7L3	1.43E-15	0.162662128	0.449	0.418	4.78E-11	1	1.074
PPIG	1.64E-15	0.098821317	0.473	0.435	5.48E-11	1	1.087
ASXL1	1.84E-15	0.072473704	0.279	0.24	6.17E-11	1	1.163
NDUFB9	2.40E-15	0.060162554	0.507	0.456	8.05E-11	1	1.112
EIF3D	2.70E-15	0.091457524	0.551	0.508	9.06E-11	1	1.085
WDR43	3.03E-15	0.096578419	0.262	0.228	1.01E-10	1	1.149
SSBP1	4.13E-15	0.086107078	0.472	0.432	1.39E-10	1	1.093
MRPS21	6.04E-15	0.11406871	0.383	0.353	2.03E-10	1	1.085
FXYD5	8.74E-15	0.044964692	0.795	0.746	2.93E-10	1	1.066
TLK1	1.17E-14	0.059826759	0.257	0.223	3.94E-10	1	1.152
HNRNPDL	1.68E-14	0.050635924	0.806	0.769	5.65E-10	1	1.048
MT-ND3	2.10E-14	0.054402399	0.999	0.995	7.04E-10	1	1.004
MLLT6	2.48E-14	0.066782028	0.256	0.218	8.32E-10	1	1.174
TAF9	2.60E-14	0.080953539	0.272	0.24	8.71E-10	1	1.133
PFDN5	4.03E-14	0.041575591	0.979	0.958	1.35E-09	1	1.022
YTHDC1	8.84E-14	0.073138157	0.413	0.376	2.97E-09	1	1.098
SECISBP2	8.92E-14	0.077304722	0.278	0.244	2.99E-09	1	1.139
CLNS1A	1.48E-13	0.115567716	0.264	0.237	4.97E-09	1	1.114
COX7A2L	1.64E-13	0.085852805	0.494	0.452	5.50E-09	1	1.093
TMED4	2.57E-13	0.08782867	0.31	0.276	8.63E-09	1	1.123
U2SURP	5.40E-13	0.082682358	0.444	0.411	1.81E-08	1	1.08
SNRPE	8.67E-13	0.07862575	0.407	0.372	2.91E-08	1	1.094
THUMPD1	2.24E-12	0.068799765	0.309	0.274	7.50E-08	1	1.128
PPP1R10	2.69E-12	0.070365213	0.278	0.244	9.03E-08	1	1.139
PITHD1	2.71E-12	0.061900367	0.258	0.225	9.07E-08	1	1.147
AIP	3.09E-12	0.090246872	0.301	0.271	1.04E-07	1	1.111
BIN1	7.94E-12	0.063095448	0.297	0.262	2.66E-07	1	1.134
KLF9	1.57E-11	0.045432103	0.257	0.224	5.27E-07	1	1.147
SRP9	1.74E-11	0.081536449	0.42	0.388	5.84E-07	1	1.082
CNOT7	5.57E-11	0.081742274	0.285	0.257	1.87E-06	1	1.109
PPHLN1	1.06E-10	0.065411771	0.364	0.33	3.56E-06	1	1.103
EIF5B	1.17E-10	0.094198678	0.295	0.266	3.91E-06	1	1.109
EAPP	3.18E-10	0.055946705	0.431	0.397	1.07E-05	1	1.086
EIF3L	4.25E-10	0.049508178	0.649	0.593	1.42E-05	1	1.094
NCBP2-AS2	4.68E-10	0.053001312	0.337	0.305	1.57E-05	1	1.105
CHD2	6.05E-10	0.070156395	0.375	0.345	2.03E-05	1	1.087
RANBP1	1.06E-09	0.070261514	0.314	0.287	3.54E-05	1	1.094
RTRAF	1.10E-09	0.062079388	0.525	0.491	3.69E-05	1	1.069
MIF	1.43E-09	0.044826699	0.53	0.488	4.78E-05	1	1.086
EIF1AX	1.69E-09	0.072099072	0.419	0.391	5.66E-05	1	1.072
OCIAD1	2.09E-09	0.080058784	0.332	0.308	7.02E-05	1	1.078
PA2G4	3.90E-09	0.093001728	0.345	0.323	0.000130827	1	1.068
GSTK1	4.48E-09	0.052507198	0.567	0.529	0.000150371	1	1.072
HBP1	5.94E-09	0.058226753	0.3	0.273	0.000199178	1	1.099
UBE2D2	1.72E-08	0.051952243	0.638	0.606	0.000575747	1	1.053
ATRAID	7.68E-08	0.058091174	0.374	0.35	0.002576213	1	1.069
OGT	1.05E-07	0.094032633	0.263	0.242	0.003533066	1	1.087
C8orf59	1.30E-07	0.063297153	0.442	0.416	0.004353028	1	1.062
RNF126	1.73E-07	0.032179585	0.312	0.283	0.005796648	1	1.102
ERP29	2.39E-07	0.043035995	0.707	0.658	0.008016165	1	1.074
CCDC88C	2.85E-07	0.0310996	0.273	0.247	0.009574674	1	1.105
SNRK	3.40E-07	0.039807048	0.28	0.256	0.011398017	1	1.094
CENPC	3.49E-07	0.049656431	0.296	0.269	0.011718961	1	1.1
HSPE1	4.09E-07	0.00726703	0.415	0.383	0.01372883	1	1.084
MBP	4.92E-07	0.013921942	0.409	0.379	0.016486006	1	1.079
ATP5F1A	6.65E-07	0.057347156	0.471	0.444	0.022309249	1	1.061
IGBP1	9.49E-07	0.054778207	0.359	0.337	0.031834064	1	1.065
PTPN1	9.61E-07	0.070841351	0.343	0.321	0.032238945	1	1.069
IMP3	1.13E-06	0.039125448	0.262	0.237	0.037902956	1	1.105
CACYBP	1.38E-06	0.041792039	0.27	0.25	0.046127045	1	1.08
RICTOR	3.72E-06	0.038944398	0.427	0.401	0.124810704	1	1.065
C1orf56	6.41E-06	0.085842292	0.297	0.276	0.214887816	1	1.076
LSM7	8.46E-06	0.011239184	0.535	0.506	0.283580124	1	1.057
SLC25A36	9.66E-06	0.050839814	0.296	0.277	0.323944144	1	1.069
BUB3	1.29E-05	0.041875727	0.278	0.257	0.433247882	1	1.082
SNRPD1	1.45E-05	0.025923275	0.42	0.396	0.486604723	1	1.061
FNBP4	2.91E-05	0.051506845	0.404	0.385	0.976759515	1	1.049
TMEM14B	5.89E-05	0.054408359	0.337	0.322	1	1	1.047
EIF3G	5.93E-05	0.002116074	0.682	0.648	1	1	1.052
NDUFAF8	6.91E-05	0.052979184	0.267	0.252	1	1	1.06
CASP8	8.27E-05	0.041890276	0.311	0.292	1	1	1.065
PCM1	8.41E-05	0.043143188	0.347	0.329	1	1	1.055
CEBPZ	0.000121506	0.049711727	0.304	0.285	1	1	1.067
CCDC59	0.000171803	0.033006548	0.415	0.396	1	1	1.048
CNBP	0.000188316	0.030505021	0.709	0.669	1	1	1.06
FXR1	0.000267787	0.045779051	0.37	0.356	1	1	1.039
NKTR	0.000276069	0.052956587	0.491	0.468	1	1	1.049
HNRNPH1	0.000568452	0.049795595	0.676	0.648	1	1	1.043
PNN	0.00059988	0.020312077	0.528	0.505	1	1	1.046
RBM26	0.000888347	0.033915228	0.274	0.259	1	1	1.058
ARID5B	0.001047842	0.045420677	0.259	0.242	1	1	1.07
ARHGEF1	0.001167691	0.044618593	0.436	0.421	1	1	1.036
ZNF644	0.001508602	0.03436068	0.298	0.284	1	1	1.049
STAG2	0.001903402	0.048052855	0.334	0.324	1	1	1.031
EIF2S2	0.002645865	0.041626446	0.345	0.336	1	1	1.027
ZNF292	0.003187125	0.023078714	0.362	0.348	1	1	1.04
IK	0.00401405	0.02970816	0.381	0.372	1	1	1.024
ASH1L	0.004425795	0.062515885	0.265	0.256	1	1	1.035
ABRACL	0.005070816	0.054280477	0.318	0.311	1	1	1.023
KRAS	0.00580521	0.025703203	0.363	0.35	1	1	1.037
SMC3	0.007691066	0.020654983	0.302	0.289	1	1	1.045
IL7R	0	1.88621734	0.874	0.263	0	2	3.323
LTB	0	1.550613861	0.948	0.488	0	2	1.943
IL32	0	1.621479209	0.828	0.295	0	2	2.807
CD3D	0	1.257441543	0.859	0.279	0	2	3.079
TRAC	0	1.49223461	0.786	0.221	0	2	3.557
CD3E	0	1.144455131	0.88	0.326	0	2	2.699
LDHB	0	1.153504818	0.888	0.513	0	2	1.731
TPT1	0	0.575164756	1	0.996	0	2	1.004
RPS3	0	0.65610174	1	0.978	0	2	1.022
RPL3	0	0.618981727	1	0.968	0	2	1.033
RPS14	0	0.543583219	1	0.982	0	2	1.018
CD3G	0	1.100405593	0.726	0.219	0	2	3.315
RPS18	0	0.562367848	1	0.974	0	2	1.027
ZFP36L2	0	1.114923347	0.929	0.724	0	2	1.283
CD2	0	1.141437051	0.693	0.23	0	2	3.013
RPL10	0	0.500704306	1	0.991	0	2	1.009
RPS12	0	0.550844584	1	0.986	0	2	1.014
RPS4X	0	0.581026034	1	0.974	0	2	1.027
RPL13	0	0.509694658	1	0.984	0	2	1.016
LEPROTL1	0	0.979895161	0.816	0.456	0	2	1.789
TRBC2	0	1.194923677	0.75	0.344	0	2	2.18
SARAF	0	0.745309231	0.967	0.835	0	2	1.158
HSPA8	0	0.989541451	0.822	0.519	0	2	1.584
KLF2	0	0.849024074	0.956	0.78	0	2	1.226
RPL11	0	0.465448731	1	0.981	0	2	1.019
EEF1A1	0	0.490218637	1	0.987	0	2	1.013
RPS15A	0	0.466061778	1	0.985	0	2	1.015
RPL19	0	0.458206002	1	0.977	0	2	1.024
RPL14	0	0.466472364	1	0.968	0	2	1.033
AES	0	0.676954268	0.944	0.76	0	2	1.242
B2M	0	0.347977407	1	1	0	2	1
RPSA	0	0.544679842	1	0.949	0	2	1.054
RPS25	0	0.474686021	1	0.972	0	2	1.029
SPOCK2	0	0.843275511	0.658	0.27	0	2	2.437
NPM1	0	0.609978211	0.964	0.835	0	2	1.154
RPS29	0	0.508764463	1	0.981	0	2	1.019
RPS2	0	0.444279802	1	0.976	0	2	1.025
RPL23A	0	0.454653904	1	0.964	0	2	1.037
RPS6	0	0.461552409	1	0.971	0	2	1.03
RPS27A	0	0.429759364	1	0.988	0	2	1.012
RPL36	0	0.444370673	1	0.968	0	2	1.033
JUNB	0	0.95067656	0.934	0.827	0	2	1.129
RPL36AL	0	0.480945184	0.984	0.909	0	2	1.083
RPL5	0	0.433763286	0.999	0.962	0	2	1.038
RPL18	0	0.393976741	1	0.972	0	2	1.029
TCF7	0	0.795254706	0.598	0.237	0	2	2.523
RPL32	0	0.392236876	1	0.98	0	2	1.02
RPL30	0	0.395417935	1	0.983	0	2	1.017
RPL9	0	0.382639605	1	0.977	0	2	1.024
ARL4C	0	0.701961039	0.799	0.498	0	2	1.604
RPL10A	0	0.415435754	0.999	0.954	0	2	1.047
GSTK1	0	0.75300139	0.743	0.501	0	2	1.483
TRBC1	0	1.234084678	0.539	0.202	0	2	2.668
RPL7A	0	0.352846792	1	0.975	0	2	1.026
DNAJB1	0	0.921832708	0.574	0.268	0	2	2.142
NOSIP	0	0.873803488	0.573	0.259	0	2	2.212
RPS3A	0	0.394363847	1	0.981	0	2	1.019
RCAN3	0	0.790012569	0.517	0.194	0	2	2.665
RPL24	0	0.342902576	0.999	0.965	0	2	1.035
RPS7	0	0.329138846	1	0.976	0	2	1.025
RORA	0	0.737780526	0.563	0.232	0	2	2.427
ITM2A	0	0.929332964	0.473	0.154	0	2	3.071
LCK	0	0.737879394	0.542	0.207	0	2	2.618
RPS16	0	0.379343228	0.999	0.967	0	2	1.033
ANXA1	0	0.930263011	0.779	0.489	0	2	1.593
RPS27	0	0.402620451	1	0.993	0	2	1.007
EVL	0	0.634784229	0.694	0.406	0	2	1.709
CALM1	0	0.416019359	0.97	0.884	0	2	1.097
RPL41	0	0.335782606	1	0.993	0	2	1.007
FXYD5	0	0.556699502	0.869	0.735	0	2	1.182
GIMAP7	0	0.756382272	0.56	0.262	0	2	2.137
RPL35A	0	0.324357224	1	0.985	0	2	1.015
RPL4	0	0.422154479	0.984	0.926	0	2	1.063
CD27	0	0.882377847	0.404	0.099	0	2	4.081
RPS15	0	0.291779569	1	0.981	0	2	1.019
HINT1	0	0.433853185	0.957	0.861	0	2	1.111
RPL29	0	0.317465836	1	0.976	0	2	1.025
RPL27A	0	0.352084574	0.997	0.959	0	2	1.04
PBXIP1	0	0.760237277	0.436	0.143	0	2	3.049
RPS28	0	0.316830682	1	0.981	0	2	1.019
RPL28	0	0.276702126	1	0.987	0	2	1.013
AQP3	0	0.902771871	0.35	0.052	0	2	6.731
TNFAIP3	0	0.824753266	0.624	0.381	0	2	1.638
CD52	0	0.485656566	0.946	0.76	0	2	1.245
RPL34	0	0.348445063	1	0.979	0	2	1.021
ETS1	0	0.558711761	0.685	0.399	0	2	1.717
SOD1	0	0.482192256	0.735	0.516	0	2	1.424
ARHGAP15	0	0.706494008	0.47	0.2	0	2	2.35
RGCC	0	1.361191819	0.455	0.192	0	2	2.37
MAL	0	0.734963702	0.402	0.12	0	2	3.35
FYB1	0	0.579773377	0.694	0.448	0	2	1.549
TOMM7	0	0.408963166	0.972	0.895	0	2	1.086
EEF1B2	0	0.343355515	0.993	0.936	0	2	1.061
RPLP2	0	0.289430937	1	0.977	0	2	1.024
MZT2A	0	0.586128141	0.594	0.355	0	2	1.673
BCL11B	0	0.661001516	0.431	0.149	0	2	2.893
PRDX2	0	0.617568627	0.503	0.244	0	2	2.061
NOP53	0	0.403026875	0.937	0.798	0	2	1.174
C12orf57	0	0.484622185	0.779	0.553	0	2	1.409
RPL35	0	0.308885572	0.998	0.962	0	2	1.037
ACAP1	0	0.578149547	0.578	0.335	0	2	1.725
RPS19	0	0.291314233	1	0.977	0	2	1.024
PEBP1	0	0.510149564	0.659	0.442	0	2	1.491
RPL6	0	0.271830384	0.999	0.971	0	2	1.029
DUSP2	0	0.648469438	0.555	0.314	0	2	1.768
EEF1D	0	0.287269451	0.993	0.954	0	2	1.041
MZT2B	0	0.419052638	0.828	0.672	0	2	1.232
RPL38	0	0.339508231	0.997	0.951	0	2	1.048
RPS5	0	0.307150844	0.998	0.948	0	2	1.053
RARRES3	0	0.473204237	0.605	0.372	0	2	1.626
RPL26	0	0.242450174	1	0.975	0	2	1.026
SSR2	0	0.428261257	0.807	0.653	0	2	1.236
CD6	0	0.612869717	0.39	0.137	0	2	2.847
PIK3R1	0	0.564520127	0.618	0.416	0	2	1.486
LAT	0	0.49218046	0.427	0.175	0	2	2.44
TTC39C	0	0.655410679	0.419	0.196	0	2	2.138
SYNE2	0	0.457626508	0.535	0.282	0	2	1.897
PIK3IP1	0	0.398355927	0.65	0.404	0	2	1.609
FLT3LG	0	0.615314008	0.329	0.095	0	2	3.463
CLEC2D	0	0.480744005	0.547	0.312	0	2	1.753
TSTD1	0	0.484162874	0.499	0.269	0	2	1.855
TRAT1	0	0.640879894	0.294	0.062	0	2	4.742
CAMK4	0	0.570680404	0.325	0.098	0	2	3.316
MCUB	0	0.495298853	0.514	0.325	0	2	1.582
TMEM238	0	0.545650531	0.359	0.141	0	2	2.546
SKAP1	0	0.478268235	0.411	0.179	0	2	2.296
OCIAD2	0	0.472791074	0.472	0.247	0	2	1.911
CRIP1	0	0.500877538	0.536	0.331	0	2	1.619
GATA3	0	0.657199273	0.287	0.07	0	2	4.1
CDKN1B	0	0.523338947	0.458	0.267	0	2	1.715
TNFRSF25	0	0.578519987	0.29	0.077	0	2	3.766
TRADD	0	0.658013431	0.321	0.12	0	2	2.675
IL2RG	0	0.455714241	0.454	0.245	0	2	1.853
GPR183	0	0.414581733	0.445	0.234	0	2	1.902
GZMK	0	1.448205031	0.263	0.057	0	2	4.614
INPP4B	0	0.605807176	0.257	0.05	0	2	5.14
CDC14A	0	0.562997596	0.335	0.14	0	2	2.393
CD5	0	0.571883179	0.264	0.063	0	2	4.19
GIMAP4	0	0.564449801	0.388	0.198	0	2	1.96
OPTN	0	0.470920085	0.355	0.155	0	2	2.29
CD28	0	0.52923115	0.26	0.063	0	2	4.127
LYAR	0	0.701099029	0.389	0.21	0	2	1.852
SH3YL1	0	0.479680797	0.297	0.11	0	2	2.7
KLRB1	0	0.737123114	0.33	0.146	0	2	2.26
AP3M2	0	0.498222025	0.275	0.101	0	2	2.723
LEF1	0	0.422843983	0.284	0.114	0	2	2.491
CD96	0	0.40328789	0.299	0.132	0	2	2.265
OXNAD1	0	0.39003639	0.28	0.118	0	2	2.373
TC2N	0	0.410800831	0.256	0.096	0	2	2.667
CORO1B	3.48E-307	0.549128903	0.33	0.173	1.17E-302	2	1.908
STMN3	1.72E-301	0.374724242	0.252	0.107	5.77E-297	2	2.355
CD48	2.37E-297	0.397230079	0.888	0.762	7.95E-293	2	1.165
AP002387.2	1.10E-295	0.357800886	0.259	0.112	3.69E-291	2	2.312
RPS10	3.96E-295	0.256027811	0.996	0.95	1.33E-290	2	1.048
RPL8	1.97E-291	0.2385562	1	0.973	6.60E-287	2	1.028
APRT	1.63E-290	0.4262106	0.752	0.594	5.47E-286	2	1.266
P2RY8	7.31E-285	0.408401877	0.32	0.159	2.45E-280	2	2.013
BIN1	2.01E-284	0.421575789	0.423	0.242	6.76E-280	2	1.748
VAMP2	2.15E-276	0.399771304	0.764	0.611	7.21E-272	2	1.25
RPS21	5.37E-276	0.367692448	0.997	0.959	1.80E-271	2	1.04
CD247	3.34E-274	0.069067783	0.537	0.295	1.12E-269	2	1.82
SEPT1	1.05E-273	0.412228856	0.419	0.238	3.53E-269	2	1.761
PAG1	1.38E-273	0.419354988	0.348	0.189	4.62E-269	2	1.841
RPL22	6.31E-273	0.266434319	0.999	0.959	2.12E-268	2	1.042
RPL37	1.14E-272	0.257340273	1	0.983	3.82E-268	2	1.017
ODF2L	2.26E-272	0.412083221	0.322	0.164	7.57E-268	2	1.963
ITGB1	4.38E-267	0.600091098	0.497	0.339	1.47E-262	2	1.466
RACK1	1.10E-263	0.282779062	0.992	0.958	3.67E-259	2	1.035
RPL18A	1.71E-262	0.214607389	1	0.97	5.75E-258	2	1.031
TECR	1.56E-260	0.408387751	0.403	0.238	5.23E-256	2	1.693
GIMAP1	5.45E-253	0.414691336	0.299	0.154	1.83E-248	2	1.942
RPL12	2.97E-252	0.231898394	1	0.975	9.96E-248	2	1.026
SLC2A4RG	1.19E-251	0.37519371	0.288	0.145	3.98E-247	2	1.986
RPL27	1.71E-251	0.235634141	0.996	0.961	5.75E-247	2	1.036
SMDT1	2.44E-250	0.399762122	0.716	0.574	8.17E-246	2	1.247
RPS23	1.36E-249	0.238471181	1	0.974	4.55E-245	2	1.027
BTF3	8.06E-245	0.281690687	0.981	0.927	2.70E-240	2	1.058
SELENOM	2.62E-241	0.3531463	0.284	0.142	8.79E-237	2	2
TRAF3IP3	1.71E-240	0.47777198	0.463	0.298	5.75E-236	2	1.554
S1PR4	3.26E-239	0.413628606	0.341	0.191	1.09E-234	2	1.785
ITK	1.10E-237	0.305508353	0.258	0.121	3.68E-233	2	2.132
COX7C	1.02E-235	0.315239106	0.947	0.862	3.43E-231	2	1.099
RPS8	1.45E-235	0.242491654	1	0.974	4.85E-231	2	1.027
CREM	1.34E-233	0.456749976	0.32	0.173	4.51E-229	2	1.85
CLDND1	1.78E-233	0.493113751	0.363	0.218	5.98E-229	2	1.665
SLFN5	5.83E-228	0.378791868	0.287	0.148	1.96E-223	2	1.939
FYN	9.26E-228	0.329903048	0.508	0.332	3.11E-223	2	1.53
RNF125	4.99E-226	0.338184432	0.392	0.226	1.67E-221	2	1.735
CUTA	2.44E-224	0.392448903	0.591	0.434	8.17E-220	2	1.362
PDE3B	3.96E-222	0.342956087	0.297	0.156	1.33E-217	2	1.904
PSIP1	3.54E-221	0.385763513	0.442	0.281	1.19E-216	2	1.573
CD69	4.51E-220	0.175735285	0.652	0.423	1.51E-215	2	1.541
SFXN1	6.36E-220	0.344312176	0.298	0.158	2.13E-215	2	1.886
SRSF7	2.19E-219	0.336916699	0.804	0.671	7.33E-215	2	1.198
SNRPN	1.56E-218	0.31189719	0.377	0.235	5.22E-214	2	1.604
PTGES3	5.36E-218	0.3803605	0.687	0.54	1.80E-213	2	1.272
DDIT4	3.37E-216	0.547184261	0.476	0.325	1.13E-211	2	1.465
CCND2	4.00E-214	0.336054932	0.256	0.129	1.34E-209	2	1.984
SEPT6	4.68E-214	0.391740743	0.541	0.379	1.57E-209	2	1.427
AC058791.1	1.52E-211	0.368984087	0.357	0.204	5.11E-207	2	1.75
RPL21	2.35E-211	0.206726299	1	0.988	7.88E-207	2	1.012
C19orf53	5.88E-210	0.372337949	0.68	0.539	1.97E-205	2	1.262
AAK1	5.68E-207	0.371896379	0.576	0.417	1.91E-202	2	1.381
HNRNPA1	2.84E-206	0.267150304	0.967	0.901	9.52E-202	2	1.073
NCK2	2.79E-204	0.272824084	0.394	0.236	9.34E-200	2	1.669
NSMCE3	5.67E-202	0.376869573	0.433	0.277	1.90E-197	2	1.563
NACA	5.75E-201	0.210809462	0.997	0.972	1.93E-196	2	1.026
C16orf54	1.20E-198	0.38445348	0.305	0.175	4.02E-194	2	1.743
MGAT4A	6.10E-197	0.365721616	0.509	0.351	2.05E-192	2	1.45
RPL15	8.19E-195	0.196093114	0.999	0.98	2.75E-190	2	1.019
SYTL1	1.79E-194	0.335506481	0.33	0.189	6.02E-190	2	1.746
TNFAIP8	5.04E-192	0.384891454	0.448	0.302	1.69E-187	2	1.483
MYL12A	1.31E-191	0.126977757	0.909	0.803	4.41E-187	2	1.132
RASGRP1	1.11E-189	0.286330113	0.264	0.136	3.73E-185	2	1.941
SPTAN1	9.88E-189	0.341384039	0.317	0.184	3.31E-184	2	1.723
TBC1D10C	4.14E-188	0.325801586	0.436	0.277	1.39E-183	2	1.574
CD7	1.65E-186	0.071722493	0.53	0.325	5.55E-182	2	1.631
TOB1	4.41E-182	0.427975256	0.377	0.246	1.48E-177	2	1.533
ZAP70	1.87E-181	0.212459385	0.268	0.137	6.26E-177	2	1.956
EIF3E	9.07E-177	0.313277238	0.834	0.72	3.04E-172	2	1.158
HLA-C	2.05E-176	0.093022504	0.999	0.986	6.87E-172	2	1.013
RPL36A	2.36E-176	0.36061787	0.896	0.8	7.91E-172	2	1.12
SOCS3	3.70E-176	0.403314925	0.359	0.229	1.24E-171	2	1.568
RPLP0	5.79E-169	0.242744193	0.982	0.929	1.94E-164	2	1.057
CDC42SE2	1.27E-167	0.304084611	0.719	0.586	4.27E-163	2	1.227
HLA-A	1.86E-167	0.143080694	0.998	0.976	6.25E-163	2	1.023
CXCR4	3.84E-167	0.350916066	0.818	0.683	1.29E-162	2	1.198
PPA1	5.34E-163	0.336311893	0.475	0.338	1.79E-158	2	1.405
RPL13A	7.59E-163	0.297412212	0.992	0.962	2.55E-158	2	1.031
ITM2B	1.17E-162	0.13612062	0.954	0.862	3.94E-158	2	1.107
EIF4A2	4.88E-159	0.303319994	0.7	0.576	1.64E-154	2	1.215
RHOH	5.99E-159	0.267128729	0.486	0.317	2.01E-154	2	1.533
SELENOK	3.90E-155	0.341741529	0.647	0.522	1.31E-150	2	1.239
TMSB4X	5.69E-155	0.045461009	1	0.991	1.91E-150	2	1.009
RPLP1	8.08E-147	0.193528733	1	0.993	2.71E-142	2	1.007
ARHGEF1	1.83E-146	0.308296678	0.535	0.406	6.12E-142	2	1.318
REX1BD	7.00E-146	0.313994497	0.479	0.352	2.35E-141	2	1.361
PRKCH	4.07E-145	0.213277133	0.291	0.168	1.36E-140	2	1.732
BTG1	1.23E-144	0.207140907	0.983	0.926	4.12E-140	2	1.062
RPL39	1.96E-144	0.199600592	1	0.982	6.58E-140	2	1.018
RBL2	2.65E-144	0.298630922	0.309	0.192	8.89E-140	2	1.609
ARHGDIB	3.36E-144	0.21202949	0.905	0.793	1.13E-139	2	1.141
ARID5B	1.15E-139	0.32262392	0.354	0.227	3.86E-135	2	1.559
SVIP	5.82E-138	0.252558303	0.423	0.282	1.95E-133	2	1.5
BCAS2	7.91E-138	0.308539115	0.4	0.276	2.65E-133	2	1.449
ICAM3	1.37E-136	0.289383118	0.659	0.53	4.61E-132	2	1.243
ATP5PD	4.90E-135	0.307497515	0.493	0.37	1.64E-130	2	1.332
IFITM1	1.27E-133	0.146642689	0.5	0.333	4.25E-129	2	1.502
FCMR	1.73E-132	0.229945287	0.251	0.142	5.82E-128	2	1.768
SEPT9	1.88E-131	0.289656847	0.531	0.403	6.32E-127	2	1.318
XBP1	5.24E-129	0.293083393	0.469	0.347	1.76E-124	2	1.352
AIP	9.58E-129	0.287276036	0.376	0.26	3.21E-124	2	1.446
SNRPD2	2.37E-128	0.301698156	0.666	0.563	7.96E-124	2	1.183
SUN2	1.57E-127	0.244840945	0.46	0.333	5.26E-123	2	1.381
TRAPPC6A	1.77E-127	0.267906234	0.312	0.202	5.95E-123	2	1.545
HLA-E	1.14E-126	0.143246856	0.981	0.941	3.82E-122	2	1.043
RNF126	1.79E-126	0.285175458	0.388	0.271	6.02E-122	2	1.432
ATP5IF1	5.88E-126	0.282720642	0.536	0.414	1.97E-121	2	1.295
CD99	6.06E-126	0.128359182	0.705	0.551	2.03E-121	2	1.279
SNHG8	8.46E-124	0.274290864	0.759	0.651	2.84E-119	2	1.166
RNASET2	2.11E-123	0.26289049	0.643	0.502	7.08E-119	2	1.281
TSC22D3	2.34E-123	0.244995014	0.853	0.775	7.86E-119	2	1.101
NDUFS5	2.44E-122	0.124295764	0.69	0.551	8.18E-118	2	1.252
ANKRD12	2.68E-122	0.251406538	0.742	0.634	8.99E-118	2	1.17
MPHOSPH8	3.24E-122	0.277717977	0.443	0.318	1.08E-117	2	1.393
COMMD6	2.59E-121	0.248040545	0.878	0.789	8.70E-117	2	1.113
AHNAK	6.29E-121	0.225012107	0.587	0.427	2.11E-116	2	1.375
TMC8	2.63E-120	0.259510168	0.287	0.182	8.81E-116	2	1.577
GPSM3	3.58E-120	0.240740479	0.737	0.612	1.20E-115	2	1.204
STK4	4.67E-119	0.254200744	0.741	0.646	1.57E-114	2	1.147
BEX2	9.06E-117	0.221216233	0.269	0.162	3.04E-112	2	1.66
EEF2	1.87E-115	0.235064977	0.917	0.844	6.26E-111	2	1.086
BTN3A2	1.53E-114	0.246334672	0.268	0.166	5.14E-110	2	1.614
HIST1H1C	1.73E-114	0.250095297	0.435	0.314	5.82E-110	2	1.385
ANP32B	1.61E-112	0.254628761	0.731	0.627	5.40E-108	2	1.166
KIF2A	3.45E-112	0.157951914	0.352	0.239	1.16E-107	2	1.473
PITPNC1	1.33E-111	0.236759424	0.263	0.165	4.45E-107	2	1.594
CCM2	2.69E-111	0.272527046	0.291	0.192	9.01E-107	2	1.516
DUT	2.67E-110	0.273930039	0.313	0.212	8.94E-106	2	1.476
GYPC	1.14E-108	0.256879239	0.626	0.513	3.82E-104	2	1.22
EMB	1.41E-108	0.269144058	0.398	0.287	4.72E-104	2	1.387
EIF3G	3.94E-107	0.203452173	0.746	0.638	1.32E-102	2	1.169
TOMM20	3.72E-106	0.241217399	0.748	0.659	1.25E-101	2	1.135
NSD3	2.80E-104	0.262443025	0.507	0.4	9.40E-100	2	1.267
JUN	9.01E-104	0.374297113	0.698	0.61	3.02E-99	2	1.144
ABHD14B	2.32E-103	0.250350951	0.285	0.189	7.77E-99	2	1.508
EID1	3.67E-103	0.280857422	0.599	0.499	1.23E-98	2	1.2
FAM162A	4.02E-103	0.241536706	0.27	0.176	1.35E-98	2	1.534
GMFG	4.66E-102	0.19471205	0.858	0.724	1.56E-97	2	1.185
ANAPC16	5.76E-102	0.245393369	0.59	0.482	1.93E-97	2	1.224
ZNF331	2.31E-101	0.261077931	0.357	0.247	7.76E-97	2	1.445
ADD3	4.81E-101	0.252465979	0.42	0.315	1.61E-96	2	1.333
PSMC5	4.52E-99	0.270850062	0.393	0.296	1.52E-94	2	1.328
HCST	1.15E-98	0.124789712	0.775	0.611	3.87E-94	2	1.268
GTF3A	5.81E-98	0.216033215	0.702	0.595	1.95E-93	2	1.18
DAD1	1.13E-96	0.249378631	0.459	0.354	3.79E-92	2	1.297
CCSER2	3.24E-96	0.200599811	0.274	0.177	1.09E-91	2	1.548
DNAJC19	2.01E-95	0.236058563	0.269	0.177	6.75E-91	2	1.52
CACYBP	2.65E-95	0.274701359	0.332	0.24	8.90E-91	2	1.383
HSP90AA1	3.04E-94	0.182530628	0.895	0.831	1.02E-89	2	1.077
FKBP11	4.30E-94	0.113266184	0.322	0.21	1.44E-89	2	1.533
BCL2	1.39E-93	0.195107033	0.324	0.218	4.67E-89	2	1.486
STAT4	2.38E-93	0.14250035	0.266	0.165	7.98E-89	2	1.612
EPB41	1.95E-92	0.250361178	0.364	0.264	6.54E-88	2	1.379
FAM107B	1.98E-91	0.215713654	0.661	0.555	6.64E-87	2	1.191
MIF	5.68E-91	0.248859334	0.584	0.48	1.90E-86	2	1.217
SELENOW	6.16E-91	0.202680887	0.46	0.356	2.07E-86	2	1.292
NECAP2	6.43E-91	0.256024274	0.338	0.245	2.16E-86	2	1.38
EDF1	3.83E-90	0.219052087	0.757	0.668	1.29E-85	2	1.133
GSPT1	7.68E-90	0.238404548	0.309	0.217	2.58E-85	2	1.424
EIF3F	2.44E-88	0.209788683	0.825	0.755	8.20E-84	2	1.093
PAXX	6.22E-88	0.216505802	0.458	0.356	2.08E-83	2	1.287
RPS13	6.48E-87	0.143181977	0.999	0.97	2.17E-82	2	1.03
NDFIP1	1.13E-86	0.229201414	0.468	0.37	3.80E-82	2	1.265
RPS9	1.91E-86	0.128947372	0.998	0.981	6.39E-82	2	1.017
EIF3K	1.97E-86	0.19560392	0.886	0.809	6.61E-82	2	1.095
HSPE1	2.30E-86	0.206873658	0.476	0.374	7.73E-82	2	1.273
ABRACL	8.64E-85	0.236993775	0.395	0.299	2.90E-80	2	1.321
SS18L2	2.64E-84	0.230044206	0.356	0.265	8.84E-80	2	1.343
CMPK1	1.04E-83	0.224263582	0.496	0.405	3.47E-79	2	1.225
UXT	7.77E-83	0.209861946	0.718	0.63	2.60E-78	2	1.14
UBXN1	2.48E-82	0.213050728	0.678	0.587	8.32E-78	2	1.155
NME3	1.17E-80	0.239738192	0.354	0.265	3.93E-76	2	1.336
PDCD5	1.46E-80	0.247311004	0.298	0.216	4.91E-76	2	1.38
LDHA	7.40E-80	0.196797781	0.64	0.533	2.48E-75	2	1.201
HMGB2	1.11E-79	0.193350935	0.594	0.487	3.71E-75	2	1.22
FOXP1	1.39E-78	0.14434552	0.672	0.563	4.68E-74	2	1.194
DGCR6L	1.62E-78	0.219857133	0.263	0.184	5.44E-74	2	1.429
PLP2	2.37E-78	0.211766106	0.487	0.382	7.96E-74	2	1.275
LIMD2	2.50E-78	0.175832575	0.832	0.736	8.39E-74	2	1.13
RIPOR2	2.72E-78	0.152902049	0.509	0.4	9.13E-74	2	1.272
POLR3GL	9.69E-78	0.207215586	0.276	0.191	3.25E-73	2	1.445
SLC38A1	1.07E-77	0.146448306	0.432	0.31	3.60E-73	2	1.394
JUND	1.44E-77	0.185787959	0.979	0.939	4.83E-73	2	1.043
MTERF4	4.07E-77	0.223151694	0.301	0.215	1.37E-72	2	1.4
EML4	4.46E-77	0.239790567	0.484	0.393	1.50E-72	2	1.232
HAX1	4.98E-77	0.230228015	0.29	0.209	1.67E-72	2	1.388
BLOC1S4	1.15E-76	0.205229143	0.28	0.195	3.85E-72	2	1.436
PTPRC	1.34E-76	0.170047587	0.878	0.789	4.48E-72	2	1.113
GCC2	1.80E-76	0.211470166	0.511	0.411	6.03E-72	2	1.243
MRPS21	1.66E-75	0.243689362	0.429	0.346	5.58E-71	2	1.24
ACTG1	2.24E-75	0.101064456	0.95	0.82	7.50E-71	2	1.159
SIGIRR	2.73E-75	0.215196049	0.379	0.292	9.16E-71	2	1.298
CCNI	3.52E-74	0.186200055	0.889	0.828	1.18E-69	2	1.074
SEC11C	1.44E-73	0.210078621	0.354	0.266	4.84E-69	2	1.331
C1QBP	1.04E-72	0.226745646	0.484	0.401	3.50E-68	2	1.207
PPP2R5C	2.08E-72	0.084379451	0.661	0.563	6.97E-68	2	1.174
RAN	3.26E-72	0.188825883	0.671	0.583	1.09E-67	2	1.151
TMC6	3.93E-72	0.196112391	0.379	0.287	1.32E-67	2	1.321
MRPL57	2.90E-69	0.217720874	0.381	0.298	9.71E-65	2	1.279
ERP29	3.26E-69	0.182633708	0.742	0.654	1.09E-64	2	1.135
BIN2	3.53E-69	0.085953219	0.479	0.376	1.18E-64	2	1.274
BUB3	6.01E-69	0.196399577	0.333	0.248	2.01E-64	2	1.343
DSTN	1.06E-68	0.103355948	0.405	0.31	3.54E-64	2	1.306
NBDY	1.66E-68	0.207280191	0.293	0.214	5.57E-64	2	1.369
RPL37A	9.50E-68	0.098617654	0.999	0.978	3.19E-63	2	1.021
EIF3H	2.17E-67	0.192312226	0.781	0.704	7.29E-63	2	1.109
ANXA6	1.01E-66	0.173079152	0.333	0.247	3.38E-62	2	1.348
CHURC1	1.05E-66	0.233269009	0.418	0.338	3.51E-62	2	1.237
HNRNPA0	2.27E-66	0.232569184	0.617	0.553	7.62E-62	2	1.116
HNRNPF	8.70E-65	0.207721765	0.501	0.421	2.92E-60	2	1.19
SLC3A2	1.70E-64	0.229317062	0.436	0.358	5.71E-60	2	1.218
ORMDL1	1.03E-63	0.224925283	0.454	0.376	3.46E-59	2	1.207
FAU	1.06E-63	0.093021351	1	0.984	3.55E-59	2	1.016
PHF1	3.83E-63	0.175934721	0.309	0.224	1.28E-58	2	1.379
CCND3	4.02E-63	0.091023122	0.492	0.4	1.35E-58	2	1.23
CIRBP	4.44E-62	0.140631547	0.899	0.849	1.49E-57	2	1.059
DPP7	4.85E-62	0.202228703	0.458	0.379	1.63E-57	2	1.208
H1FX	6.92E-62	0.235221055	0.701	0.613	2.32E-57	2	1.144
CORO1A	1.88E-60	0.13508969	0.787	0.675	6.31E-56	2	1.166
UQCRB	2.15E-60	0.152611648	0.931	0.865	7.20E-56	2	1.076
NDUFB8	3.26E-60	0.182482522	0.578	0.497	1.09E-55	2	1.163
NOL7	3.98E-60	0.184510376	0.486	0.405	1.34E-55	2	1.2
PTGER4	4.14E-59	0.220716024	0.274	0.204	1.39E-54	2	1.343
RPL17	1.20E-58	0.183561941	0.639	0.563	4.03E-54	2	1.135
ZC3HAV1	4.72E-58	0.18375785	0.373	0.293	1.58E-53	2	1.273
CORO7	5.60E-57	0.214236002	0.316	0.247	1.88E-52	2	1.279
TAGAP	1.06E-56	0.179705475	0.332	0.252	3.54E-52	2	1.317
RPL7	1.78E-56	0.139090378	0.983	0.946	5.97E-52	2	1.039
MFNG	2.91E-56	0.189154873	0.259	0.193	9.76E-52	2	1.342
PPP1R2	3.58E-55	0.199243624	0.51	0.435	1.20E-50	2	1.172
SPCS1	3.65E-55	0.163116313	0.613	0.536	1.22E-50	2	1.144
PDCD4	8.59E-55	0.116153297	0.595	0.498	2.88E-50	2	1.195
MHENCR	1.07E-54	0.177452189	0.26	0.19	3.57E-50	2	1.368
SBDS	1.46E-54	0.231256631	0.547	0.471	4.89E-50	2	1.161
SNU13	2.24E-54	0.170742089	0.604	0.535	7.51E-50	2	1.129
HMGN1	3.09E-54	0.11637336	0.707	0.618	1.04E-49	2	1.144
GOLGA7	3.40E-54	0.195038535	0.285	0.218	1.14E-49	2	1.307
SKP1	7.19E-54	0.152534669	0.775	0.702	2.41E-49	2	1.104
URI1	2.23E-53	0.187448608	0.346	0.275	7.47E-49	2	1.258
SSB	1.77E-52	0.195565429	0.418	0.345	5.93E-48	2	1.212
PNRC1	3.06E-52	0.233842007	0.835	0.792	1.02E-47	2	1.054
CRBN	3.96E-52	0.176057199	0.378	0.306	1.33E-47	2	1.235
TMEM258	1.56E-51	0.212275648	0.537	0.467	5.22E-47	2	1.15
SORL1	5.17E-50	0.16331349	0.379	0.303	1.74E-45	2	1.251
CYTH1	5.27E-50	0.186878931	0.464	0.394	1.77E-45	2	1.178
SPSB3	9.83E-50	0.166599893	0.291	0.222	3.30E-45	2	1.311
ZNHIT3	1.10E-49	0.169685691	0.262	0.196	3.68E-45	2	1.337
KMT2A	1.79E-49	0.188116549	0.356	0.284	6.01E-45	2	1.254
IMP3	2.23E-49	0.176141832	0.3	0.232	7.48E-45	2	1.293
HLA-F	4.99E-49	0.108615945	0.598	0.509	1.67E-44	2	1.175
ATP6V1G1	8.26E-49	0.136680895	0.807	0.73	2.77E-44	2	1.105
RAC2	1.04E-48	0.136954531	0.596	0.516	3.47E-44	2	1.155
CCT7	5.42E-48	0.182969037	0.295	0.231	1.82E-43	2	1.277
SUMO2	5.48E-48	0.147242661	0.818	0.748	1.84E-43	2	1.094
AC044849.1	1.69E-47	0.15180932	0.26	0.191	5.68E-43	2	1.361
CNN2	4.69E-47	0.18255701	0.388	0.322	1.57E-42	2	1.205
NDUFV2	9.34E-47	0.181335837	0.47	0.404	3.13E-42	2	1.163
KRTCAP2	1.17E-46	0.177546908	0.385	0.317	3.91E-42	2	1.215
DDX24	2.48E-46	0.104267877	0.69	0.595	8.33E-42	2	1.16
EIF3D	2.76E-46	0.172836119	0.571	0.505	9.24E-42	2	1.131
RAP1A	3.65E-46	0.161393161	0.427	0.356	1.23E-41	2	1.199
OFD1	5.10E-46	0.139126527	0.251	0.183	1.71E-41	2	1.372
IGBP1	1.10E-45	0.178261232	0.395	0.331	3.67E-41	2	1.193
SATB1	1.57E-45	0.158847034	0.301	0.233	5.28E-41	2	1.292
YWHAB	3.92E-45	0.165100529	0.754	0.666	1.31E-40	2	1.132
MYL12B	6.07E-45	0.109357276	0.827	0.752	2.04E-40	2	1.1
PPIB	1.65E-44	0.095097533	0.682	0.589	5.52E-40	2	1.158
NAP1L4	2.38E-44	0.131928194	0.335	0.263	7.98E-40	2	1.274
SF1	2.94E-44	0.133819763	0.785	0.737	9.87E-40	2	1.065
TMEM14B	6.23E-44	0.176701429	0.377	0.316	2.09E-39	2	1.193
MEAF6	1.91E-43	0.157244631	0.278	0.216	6.42E-39	2	1.287
NSA2	1.94E-43	0.1669069	0.698	0.632	6.50E-39	2	1.104
TRMT112	2.32E-43	0.159986974	0.438	0.372	7.77E-39	2	1.177
ZBTB20	8.66E-43	0.14584357	0.283	0.216	2.90E-38	2	1.31
NDUFA12	1.78E-42	0.160291135	0.434	0.369	5.97E-38	2	1.176
BIRC3	4.52E-42	0.083160846	0.352	0.275	1.52E-37	2	1.28
PSMB9	5.20E-42	0.169963319	0.457	0.388	1.74E-37	2	1.178
VPS51	8.39E-42	0.171576796	0.353	0.291	2.81E-37	2	1.213
STUB1	2.57E-41	0.150311993	0.394	0.331	8.63E-37	2	1.19
SEMA4D	6.87E-41	0.155815832	0.254	0.197	2.30E-36	2	1.289
PCSK7	1.03E-40	0.129308821	0.45	0.381	3.45E-36	2	1.181
SAMSN1	1.65E-40	0.060338906	0.344	0.271	5.52E-36	2	1.269
DYNLT1	2.26E-39	0.231301306	0.39	0.338	7.57E-35	2	1.154
MT-CYB	3.91E-39	0.150252925	0.999	0.997	1.31E-34	2	1.002
HERPUD2	4.18E-39	0.157809381	0.258	0.201	1.40E-34	2	1.284
MAZ	5.73E-39	0.149232876	0.374	0.314	1.92E-34	2	1.191
CNOT6L	6.70E-39	0.1314639	0.419	0.351	2.25E-34	2	1.194
FAM177A1	1.35E-38	0.154855313	0.302	0.241	4.52E-34	2	1.253
EIF4B	1.39E-38	0.144435633	0.678	0.617	4.67E-34	2	1.099
UBA52	7.01E-37	0.090190833	0.998	0.98	2.35E-32	2	1.018
FAM89B	1.53E-36	0.123920526	0.278	0.222	5.12E-32	2	1.252
ANP32E	1.74E-36	0.146342691	0.343	0.282	5.85E-32	2	1.216
ARL6IP5	2.30E-36	0.118251184	0.552	0.481	7.71E-32	2	1.148
NDUFB9	7.25E-36	0.140684733	0.517	0.455	2.43E-31	2	1.136
IK	1.07E-35	0.14865873	0.425	0.365	3.59E-31	2	1.164
HNRNPDL	1.39E-35	0.116715235	0.827	0.767	4.65E-31	2	1.078
C6orf48	8.94E-35	0.157036614	0.434	0.377	3.00E-30	2	1.151
MBP	9.10E-35	0.125446467	0.438	0.375	3.05E-30	2	1.168
DDX18	1.86E-34	0.149919773	0.409	0.35	6.25E-30	2	1.169
EIF3A	3.28E-34	0.174161296	0.47	0.415	1.10E-29	2	1.133
UFC1	3.79E-34	0.150912853	0.518	0.465	1.27E-29	2	1.114
ZNF428	5.91E-34	0.10617017	0.275	0.215	1.98E-29	2	1.279
TBCA	6.10E-34	0.152141233	0.482	0.42	2.05E-29	2	1.148
PIP4K2A	7.52E-34	0.091645603	0.293	0.235	2.52E-29	2	1.247
NR4A2	8.28E-34	0.156316748	0.344	0.282	2.78E-29	2	1.22
ATF7IP2	1.28E-33	0.14060929	0.29	0.233	4.29E-29	2	1.245
DYNLRB1	1.72E-33	0.081402585	0.381	0.325	5.78E-29	2	1.172
CLNS1A	1.86E-33	0.161557326	0.285	0.234	6.25E-29	2	1.218
RTRAF	2.19E-33	0.144838468	0.542	0.489	7.35E-29	2	1.108
CD47	3.26E-33	0.119237759	0.501	0.442	1.09E-28	2	1.133
CYLD	3.45E-33	0.132403428	0.528	0.47	1.16E-28	2	1.123
CCT3	4.99E-33	0.148671561	0.327	0.274	1.67E-28	2	1.193
SRSF5	5.52E-33	0.106512747	0.893	0.833	1.85E-28	2	1.072
TRIR	7.18E-33	0.117703887	0.733	0.671	2.41E-28	2	1.092
TMED4	1.54E-32	0.155789317	0.327	0.274	5.17E-28	2	1.193
TMEM123	1.77E-32	0.052475165	0.593	0.526	5.92E-28	2	1.127
PYURF	2.78E-32	0.142817666	0.378	0.325	9.33E-28	2	1.163
PPDPF	7.88E-32	0.004430241	0.821	0.758	2.64E-27	2	1.083
DUS1L	8.93E-32	0.150115466	0.27	0.221	3.00E-27	2	1.222
C1orf56	9.70E-32	0.143680404	0.329	0.271	3.25E-27	2	1.214
ATM	1.15E-31	0.079941831	0.458	0.388	3.86E-27	2	1.18
TMA7	1.22E-31	0.118787294	0.922	0.872	4.10E-27	2	1.057
PPIG	3.41E-31	0.129688507	0.491	0.433	1.14E-26	2	1.134
HSPD1	5.40E-31	0.134585631	0.283	0.232	1.81E-26	2	1.22
RANBP1	5.54E-31	0.139859157	0.335	0.285	1.86E-26	2	1.175
SSBP4	6.73E-31	0.143221929	0.347	0.294	2.26E-26	2	1.18
H2AFZ	7.18E-31	0.104543847	0.57	0.503	2.41E-26	2	1.133
FNBP1	3.21E-30	0.124164058	0.509	0.452	1.08E-25	2	1.126
KLF3	6.98E-30	0.111448598	0.534	0.472	2.34E-25	2	1.131
SSR4	1.16E-29	0.047462442	0.787	0.722	3.89E-25	2	1.09
NKTR	1.55E-29	0.112173819	0.52	0.464	5.20E-25	2	1.121
UBE2B	4.70E-29	0.126124464	0.58	0.525	1.57E-24	2	1.105
N4BP2L2	5.81E-29	0.128990011	0.625	0.57	1.95E-24	2	1.096
PPP1R7	7.13E-29	0.135897477	0.287	0.239	2.39E-24	2	1.201
EIF2S3	1.23E-28	0.123274342	0.526	0.469	4.13E-24	2	1.122
PHB2	1.37E-28	0.131011212	0.448	0.398	4.59E-24	2	1.126
ARL6IP4	2.58E-28	0.112470666	0.723	0.655	8.64E-24	2	1.104
BCL7C	6.56E-28	0.122045038	0.328	0.277	2.20E-23	2	1.184
CPNE1	8.25E-28	0.142819421	0.251	0.206	2.77E-23	2	1.218
TNRC6B	9.49E-28	0.109719777	0.457	0.397	3.18E-23	2	1.151
RPS27L	1.30E-27	0.154704276	0.433	0.382	4.36E-23	2	1.134
PPHLN1	2.12E-27	0.126246177	0.379	0.328	7.11E-23	2	1.155
VPS28	5.10E-27	0.08528846	0.483	0.422	1.71E-22	2	1.145
TPR	6.01E-27	0.157758066	0.351	0.303	2.02E-22	2	1.158
UBE2D2	6.34E-27	0.107098155	0.655	0.604	2.13E-22	2	1.084
TERF2IP	6.48E-27	0.108849499	0.452	0.399	2.17E-22	2	1.133
C9orf78	6.78E-27	0.119357142	0.524	0.476	2.28E-22	2	1.101
H2AFV	1.21E-26	0.10856367	0.465	0.412	4.06E-22	2	1.129
POLR1D	2.64E-26	0.129523785	0.564	0.517	8.86E-22	2	1.091
CDC37	2.89E-26	0.112758771	0.392	0.344	9.68E-22	2	1.14
PPP1CB	3.75E-26	0.139267244	0.499	0.452	1.26E-21	2	1.104
MPC2	5.31E-26	0.121216063	0.356	0.307	1.78E-21	2	1.16
ADH5	7.33E-26	0.112461852	0.261	0.214	2.46E-21	2	1.22
NUCB2	7.50E-26	0.134314897	0.251	0.204	2.51E-21	2	1.23
THOC7	1.32E-25	0.129976469	0.311	0.267	4.41E-21	2	1.165
MDH1	2.67E-25	0.13209959	0.251	0.208	8.96E-21	2	1.207
EIF2A	1.40E-24	0.129359976	0.346	0.302	4.70E-20	2	1.146
RPL31	2.29E-24	0.076369626	0.919	0.868	7.69E-20	2	1.059
PRMT2	3.08E-24	0.090518931	0.405	0.352	1.03E-19	2	1.151
ATRX	3.32E-24	0.106010546	0.353	0.303	1.11E-19	2	1.165
ST13	5.09E-24	0.111993734	0.541	0.494	1.71E-19	2	1.095
MLLT6	1.52E-23	0.089695841	0.267	0.217	5.10E-19	2	1.23
FBL	2.73E-23	0.132580913	0.366	0.323	9.17E-19	2	1.133
MRFAP1	3.40E-23	0.126150332	0.378	0.336	1.14E-18	2	1.125
DGUOK	3.40E-23	0.120520853	0.309	0.265	1.14E-18	2	1.166
CYCS	9.06E-23	0.130274884	0.487	0.443	3.04E-18	2	1.099
CHMP4A	1.24E-22	0.111751028	0.351	0.306	4.15E-18	2	1.147
PNISR	1.49E-22	0.074236526	0.766	0.72	4.99E-18	2	1.064
APEX1	1.58E-22	0.127218513	0.348	0.305	5.31E-18	2	1.141
MED10	1.96E-22	0.092760199	0.495	0.444	6.56E-18	2	1.115
PA2G4	2.26E-22	0.126738286	0.362	0.321	7.56E-18	2	1.128
MRPS34	3.66E-22	0.125353871	0.268	0.228	1.23E-17	2	1.175
RPS20	4.38E-22	0.080021085	0.938	0.899	1.47E-17	2	1.043

Supplementary table 5.Single-cell sequencing of all differentially expressed genes in Sepsis vs NC

gene	p-value	log2FoldChange	pct.1	pct.2	q-value	FoldChange
ALPL	0	0.300223034	0.036	0	0	1.231334757
SRSF10	0	0.453232133	0.602	0.45	0	1.369104087
CD52	0	-1.246478901	0.556	0.878	0	0.421475623
SYTL1	0	-0.669456217	0.06	0.268	0	0.62874363
IFI6	0	1.011616906	0.333	0.187	0	2.016169465
LCK	0	-0.909294857	0.075	0.325	0	0.53244527
SMAP2	0	0.677159595	0.689	0.503	0	1.598988536
YBX1	0	0.368305965	0.91	0.902	0	1.290836221
IFI44L	0	0.810358036	0.197	0.042	0	1.753646594
GBP4	0	0.583465175	0.233	0.119	0	1.498444007
CD2	0	-0.676239181	0.175	0.343	0	0.625794472
RAB13	0	0.496693795	0.158	0.03	0	1.410976339
PBXIP1	0	-0.542112619	0.065	0.231	0	0.686764505
SSR2	0	-0.529326971	0.565	0.718	0	0.692877892
CD48	0	-0.42022215	0.677	0.821	0	0.747309543
TSTD1	0	-0.567303092	0.181	0.349	0	0.674877194
GLUL	0	1.009743743	0.379	0.244	0	2.013553413
PTPRC	0	-0.617470052	0.705	0.84	0	0.651812962
FCMR	0	-0.497424557	0.06	0.196	0	0.708370208
TRAF3IP3	0	-1.03853462	0.091	0.413	0	0.486821699
GALNT2	0	0.482112069	0.247	0.105	0	1.396787031
CMPK2	0	0.370513987	0.121	0.019	0	1.292813338
ODC1	0	0.667445133	0.515	0.338	0	1.588257832
EIF2AK2	0	0.840360425	0.431	0.196	0	1.790497401
ZFP36L2	0	-0.530606949	0.662	0.789	0	0.692263434
PNPT1	0	0.548592458	0.221	0.069	0	1.462657981
PELI1	0	0.749184577	0.406	0.175	0	1.680842536
MTHFD2	0	0.298396507	0.187	0.08	0	1.22977681
TMSB10	0	-0.273104344	0.955	0.995	0	0.827536962
DUSP2	0	-1.123830486	0.232	0.394	0	0.458873855
ARID5A	0	0.426984954	0.445	0.269	0	1.344420973
ZAP70	0	-0.516712075	0.062	0.193	0	0.698962967
INPP4A	0	-0.30403053	0.022	0.119	0	0.809986333
RPL31	0	0.476408915	0.876	0.874	0	1.391276256
IL1R2	0	1.046206018	0.177	0.006	0	2.065091947
BCL2L11	0	0.617512338	0.33	0.123	0	1.534227407
MARCO	0	0.673572482	0.14	0.044	0	1.595017753
CXCR4	0	-0.615132277	0.608	0.74	0	0.652870031
ARHGAP15	0	-0.476118245	0.134	0.28	0	0.718909342
CERS6	0	0.484750637	0.271	0.09	0	1.399343975
ANKRD44	0	-0.627726469	0.142	0.361	0	0.647195522
BZW1	0	0.666403148	0.728	0.506	0	1.587111128
AGFG1	0	0.842283915	0.335	0.179	0	1.792886195
ARL4C	0	-0.945690641	0.398	0.596	0	0.519180952
TMEM40	0	0.926409609	0.06	0.008	0	1.900540289
ANKRD28	0	0.516405933	0.256	0.096	0	1.4303874
RPL15	0	-0.262435393	0.958	0.992	0	0.833679408
EIF1B	0	0.429703734	0.66	0.473	0	1.346956943
GNAI2	0	-0.623168261	0.449	0.655	0	0.649243576
PROS1	0	0.33503107	0.042	0.002	0	1.261404574
MTRNR2L12	0	1.194425035	0.437	0.136	0	2.288536077
GP9	0	1.50168977	0.076	0.009	0	2.831741887
CDV3	0	0.608729659	0.707	0.521	0	1.524915878
PLSCR1	0	0.621625948	0.361	0.159	0	1.538608248
SKIL	0	0.513204544	0.348	0.158	0	1.427216841
B3GNT5	0	0.366102568	0.135	0.039	0	1.288866259
TRA2B	0	0.668941614	0.735	0.539	0	1.589906157
TNIP2	0	0.349076688	0.281	0.14	0	1.273745181
S100P	0	0.946994824	0.125	0.007	0	1.927852699
LAP3	0	0.517328274	0.349	0.176	0	1.431302165
CXCL8	0	1.11521362	0.229	0.108	0	2.166270827
CXCL3	0	0.294645605	0.097	0.018	0	1.226583632
AREG	0	0.937339747	0.253	0.125	0	1.914993834
CCNI	0	-0.408607948	0.784	0.857	0	0.753349928
HERC5	0	0.36871622	0.151	0.05	0	1.291203344
GPRIN3	0	0.433043507	0.286	0.135	0	1.350078698
MMRN1	0	0.431531089	0.043	0.003	0	1.348664114
SLC39A8	0	0.257414648	0.125	0.034	0	1.195334709
MCUB	0	-0.444939169	0.252	0.392	0	0.734615291
ACSL1	0	0.570513636	0.229	0.093	0	1.485052193
BASP1	0	0.874495447	0.351	0.162	0	1.833366792
IL7R	0	-1.127570428	0.232	0.394	0	0.457685843
FYB1	0	-0.626537023	0.347	0.537	0	0.647729329
GZMA	0	-0.939640688	0.095	0.227	0	0.521362713
SREK1IP1	0	0.367513149	0.379	0.225	0	1.290127051
ELL2	0	0.448305116	0.232	0.068	0	1.364436369
ZCCHC10	0	0.293548166	0.267	0.135	0	1.225650941
TCF7	0	-0.580950873	0.179	0.33	0	0.668523012
CYSTM1	0	0.910810281	0.205	0.071	0	1.88010115
RPS14	0	-0.340021609	0.957	0.995	0	0.790029479
SMIM3	0	0.331478113	0.167	0.066	0	1.258301907
ANXA6	0	-0.676792264	0.123	0.314	0	0.625554608
RNF144B	0	0.890639481	0.251	0.086	0	1.853997734
RIPOR2	0	-0.553158758	0.278	0.47	0	0.681526303
HIST1H1C	0	0.496259473	0.386	0.217	0	1.410551629
BTN3A2	0	-0.545491323	0.055	0.231	0	0.685158026
HLA-C	0	-0.266238028	0.981	0.991	0	0.831484902
LTB	0	-1.488726293	0.395	0.615	0	0.356326999
LY6G6F	0	0.444295879	0.046	0.002	0	1.360649876
MPIG6B	0	0.760548154	0.068	0.009	0	1.694134191
GPSM3	0	-0.605436678	0.465	0.695	0	0.657272405
PSMB9	0	-0.468192656	0.295	0.438	0	0.722869609
HLA-DMB	0	-0.70068319	0.118	0.286	0	0.615280771
HLA-DPB1	0	-0.955205035	0.441	0.587	0	0.515768284
RPS18	0	-0.313631292	0.933	0.996	0	0.804613979
CUTA	0	-0.48934708	0.34	0.503	0	0.712347412
FKBP5	0	0.660649153	0.386	0.169	0	1.580793756
PIM1	0	0.685023063	0.408	0.212	0	1.607727683
TREML1	0	1.530261724	0.081	0.013	0	2.888382334
HSP90AB1	0	0.732367982	0.784	0.758	0	1.661363751
EEF1A1	0	-0.454329309	0.969	0.997	0	0.729849391
UBE2J1	0	0.863387431	0.461	0.257	0	1.819305007
PNISR	0	-0.44319795	0.638	0.762	0	0.735502449
FYN	0	-0.389271464	0.239	0.404	0	0.763515069
SNX9	0	0.836436035	0.483	0.176	0	1.785633545
SYNJ2	0	0.272575316	0.2	0.083	0	1.207962205
RNASET2	0	-0.523766274	0.415	0.564	0	0.695553661
ARL4A	0	0.556752584	0.44	0.229	0	1.470954462
MYO1G	0	-0.516831641	0.249	0.39	0	0.698905041
UPP1	0	0.967646824	0.472	0.305	0	1.95564814
STAG3	0	0.65231676	0.15	0.034	0	1.571690078
SRPK2	0	-0.38998492	0.087	0.216	0	0.763137581
NAMPT	0	1.318696522	0.463	0.3	0	2.494406378
PRKAR2B	0	1.088660218	0.103	0.029	0	2.126764394
MTPN	0	0.589970497	0.596	0.429	0	1.505215966
SLC37A3	0	0.279124334	0.154	0.053	0	1.213458134
TRBC1	0	-1.012514746	0.123	0.299	0	0.495681477
TRBC2	0	-1.129869581	0.216	0.475	0	0.456957032
GIMAP7	0	-0.926268411	0.12	0.377	0	0.526217666
GIMAP4	0	-0.831329118	0.059	0.291	0	0.562011237
GIMAP1	0	-0.616234125	0.043	0.227	0	0.652371596
P2RY8	0	-0.410679639	0.089	0.219	0	0.752268904
EIF2S3	0	-0.455799531	0.377	0.517	0	0.729105995
ATRX	0	-0.454311039	0.203	0.353	0	0.729858634
HMGB3	0	0.331439865	0.134	0.039	0	1.258268548
RPL10	0	-0.318983292	0.979	0.997	0	0.801634613
CLU	0	1.815897908	0.217	0.031	0	3.520786898
RPS20	0	0.689479814	0.925	0.896	0	1.612701929
ASPH	0	0.718526045	0.179	0.061	0	1.645500022
ELOC	0	0.495681066	0.472	0.319	0	1.409986223
FABP5	0	0.592555561	0.251	0.108	0	1.507915475
TP53INP1	0	0.483935602	0.222	0.093	0	1.398553654
RNF19A	0	0.536140138	0.402	0.234	0	1.450087682
YWHAZ	0	0.40519874	0.814	0.721	0	1.324271324
EIF3E	0	-0.387204072	0.646	0.771	0	0.764609976
VPS28	0	-0.361599715	0.329	0.471	0	0.778301091
PLIN2	0	0.845206034	0.398	0.192	0	1.796521292
TOMM5	0	0.590472717	0.403	0.191	0	1.505740041
KLF9	0	0.565629989	0.385	0.166	0	1.480033662
TLE1	0	0.44691893	0.206	0.065	0	1.363126007
CTSL	0	1.129447771	0.18	0.049	0	2.187749824
NFIL3	0	0.433770801	0.276	0.126	0	1.350759474
ABCA1	0	0.308789524	0.165	0.06	0	1.238667974
UGCG	0	0.278845967	0.197	0.085	0	1.21322402
AKNA	0	-0.602901437	0.154	0.331	0	0.658428443
STOM	0	0.845910801	0.278	0.125	0	1.79739912
ARPC5L	0	0.631542064	0.556	0.348	0	1.549220035
LCN2	0	1.520652862	0.075	0.007	0	2.869208603
RPL7A	0	-0.260804846	0.941	0.993	0	0.834622173
EDF1	0	-0.508055393	0.579	0.72	0	0.703169601
PAXX	0	-0.62123023	0.241	0.422	0	0.650116317
IFITM2	0	1.446966784	0.739	0.544	0	2.726342443
IFITM1	0	0.664893956	0.502	0.298	0	1.585451731
IFITM3	0	1.70177294	0.413	0.178	0	3.253004775
LSP1	0	-1.028208526	0.267	0.63	0	0.490318627
HBB	0	1.12847965	0.24	0.029	0	2.186282226
TRIM22	0	0.831341101	0.397	0.229	0	1.779338633
ADM	0	0.906888353	0.195	0.03	0	1.874997086
MTRNR2L8	0	2.451046126	0.63	0.16	0	5.468124633
DGKZ	0	-0.413911564	0.15	0.288	0	0.750585557
AHNAK	0	-0.849267678	0.278	0.518	0	0.55506642
UBXN1	0	-0.410520544	0.51	0.636	0	0.752351866
RARRES3	0	-0.498982951	0.297	0.447	0	0.707605442
SIPA1	0	-0.551158664	0.093	0.259	0	0.682471798
GRK2	0	-0.518680614	0.282	0.433	0	0.698009892
ANKRD13D	0	-0.484031753	0.139	0.296	0	0.714976757
TBC1D10C	0	-0.913451909	0.1	0.379	0	0.530913264
AIP	0	-0.472125407	0.154	0.325	0	0.720901768
UCP2	0	-0.542337859	0.262	0.473	0	0.686657292
RPS3	0	-0.459021514	0.948	0.995	0	0.727479493
BIRC2	0	0.399004644	0.439	0.269	0	1.318597859
MMP8	0	0.474634542	0.034	0	0	1.389566175
ATM	0	-0.596716397	0.259	0.454	0	0.661257279
PCSK7	0	-0.583322434	0.264	0.442	0	0.667424969
JAML	0	-0.62548032	0.068	0.201	0	0.648203933
CD3E	0	-0.952855203	0.233	0.471	0	0.516609041
CD3D	0	-1.057198697	0.194	0.426	0	0.480564273
CD3G	0	-0.997159146	0.123	0.357	0	0.500985535
UBASH3B	0	0.264781286	0.138	0.039	0	1.201453894
HSPA8	0	-1.019483085	0.361	0.642	0	0.493293067
ESAM	0	0.701455633	0.058	0.008	0	1.626144693
KLF6	0	0.856712073	0.791	0.581	0	1.810906517
GDI2	0	-0.485428587	0.244	0.384	0	0.714284843
MAP3K8	0	0.996091336	0.476	0.29	0	1.994588775
CCDC6	0	0.638985566	0.319	0.105	0	1.557233802
DDX21	0	0.981806637	0.71	0.468	0	1.974937007
FAS	0	0.280194039	0.155	0.058	0	1.214358202
IFIT3	0	0.972746657	0.185	0.026	0	1.962573462
CD9	0	1.054859988	0.117	0.036	0	2.077516576
CD27	0	-0.592763842	0.033	0.185	0	0.663071411
CD4	0	-0.444820468	0.086	0.21	0	0.734675735
CD163	0	1.396274637	0.214	0.078	0	2.63221008
CLEC2D	0	-0.511686754	0.233	0.39	0	0.701401901
CLEC1B	0	1.664694978	0.07	0.004	0	3.170466159
LDHB	0	-0.727583374	0.453	0.61	0	0.603914671
TUBA1C	0	0.469382981	0.218	0.101	0	1.384517204
BIN2	0	-0.377725334	0.241	0.45	0	0.769650125
ITGB7	0	-0.445442705	0.054	0.174	0	0.734358937
RPS26	0	0.67320634	0.935	0.944	0	1.594613005
NACA	0	-0.256741175	0.939	0.99	0	0.836976386
HVCN1	0	-0.430048847	0.028	0.134	0	0.742236654
ERP29	0	-0.539768514	0.561	0.708	0	0.687881273
OASL	0	0.415916627	0.16	0.044	0	1.334146068
RSRC2	0	0.448850506	0.604	0.427	0	1.364952272
USP12	0	0.339721884	0.347	0.193	0	1.265512611
POMP	0	0.630096526	0.676	0.513	0	1.547668539
HMGB1	0	0.44618386	0.922	0.906	0	1.362431655
ELF1	0	0.502626988	0.723	0.582	0	1.416791034
TPT1	0	-0.268452606	0.992	0.998	0	0.830209528
COG3	0	0.395444393	0.333	0.162	0	1.315347864
TRAC	0	-1.393463059	0.09	0.384	0	0.380649989
CMTM5	0	1.566240613	0.078	0.01	0	2.961320445
HIF1A	0	1.050952471	0.653	0.345	0	2.071897268
SRSF5	0	-0.364300174	0.779	0.866	0	0.776845618
FOS	0	0.612994976	0.779	0.589	0	1.529430952
BCL11B	0	-0.508828985	0.091	0.227	0	0.702792653
EVL	0	-0.931583301	0.251	0.525	0	0.524282647
THBS1	0	1.180301582	0.229	0.088	0	2.266241457
GABPB1	0	0.57293524	0.268	0.074	0	1.487546988
SPPL2A	0	0.456216288	0.377	0.204	0	1.371938954
AQP9	0	0.417278845	0.152	0.037	0	1.335406387
RPL4	0	-0.538814517	0.878	0.957	0	0.688336292
BCL2A1	0	0.821803998	0.315	0.187	0	1.767614901
IL16	0	-0.410024902	0.105	0.235	0	0.752610383
RPS17	0	0.726531271	0.666	0.449	0	1.65465595
ISG20	0	1.317237096	0.521	0.425	0	2.49188432
HAPLN3	0	0.646014964	0.201	0.04	0	1.564839794
HBA2	0	0.649103935	0.17	0.026	0	1.56819388
HBA1	0	0.424062246	0.114	0.017	0	1.341700112
NME3	0	-0.432053956	0.176	0.318	0	0.741205784
SPSB3	0	-0.501748121	0.113	0.28	0	0.706250495
RPS2	0	-0.292544284	0.94	0.995	0	0.816460908
SNHG9	0	0.795070042	0.645	0.337	0	1.735161614
IL32	0	-0.789719626	0.268	0.41	0	0.578456498
SOCS1	0	0.48012478	0.269	0.132	0	1.394864305
PRKCB	0	-0.431211542	0.311	0.472	0	0.741638712
YPEL3	0	-0.658679544	0.276	0.519	0	0.633457817
CORO1A	0	-1.0834718	0.493	0.77	0	0.471891863
ITGAL	0	-0.511520022	0.118	0.255	0	0.701482966
ZNF267	0	0.375114776	0.291	0.151	0	1.296942731
RBL2	0	-0.432037222	0.108	0.248	0	0.741214381
CNOT1	0	0.589795102	0.564	0.321	0	1.505032981
DPEP2	0	-0.287219941	0.025	0.127	0	0.819479667
GLG1	0	-0.434616115	0.113	0.243	0	0.739890605
WFDC1	0	0.46357125	0.045	0	0	1.378951054
RNF166	0	-0.493073227	0.201	0.357	0	0.710509957
APRT	0	-0.427874125	0.516	0.656	0	0.743356347
RPL13	0	-0.294839185	0.958	0.997	0	0.815163192
ACAP1	0	-0.861735054	0.187	0.441	0	0.550290354
VAMP2	0	-0.682320437	0.494	0.688	0	0.623162171
RPL26	0	-0.267368057	0.939	0.995	0	0.830833874
SSH2	0	0.389862744	0.463	0.29	0	1.310268741
AC116407.2	0	0.296780105	0.112	0.025	0	1.228399734
RPL19	0	-0.3285441	0.944	0.995	0	0.796339707
ITGA2B	0	1.485080919	0.084	0.011	0	2.799328737
AC008105.3	0	-0.400927515	0.052	0.183	0	0.75737121
FMNL1	0	-0.678594514	0.347	0.555	0	0.624773638
ITGB3	0	0.449431113	0.048	0.005	0	1.365501702
SKAP1	0	-0.61006856	0.083	0.263	0	0.655165567
SAMD14	0	0.436049364	0.043	0.002	0	1.352894522
LUC7L3	0	-0.579761252	0.3	0.472	0	0.669074492
MMD	0	0.507965275	0.215	0.077	0	1.422043183
AC015912.3	0	0.309767303	0.131	0.028	0	1.23950776
LIMD2	0	-0.863530979	0.585	0.815	0	0.549605757
SUMO2	0	-0.349869445	0.693	0.784	0	0.784655101
UBALD2	0	0.591766125	0.692	0.498	0	1.507090576
SEC14L1	0	0.474713495	0.361	0.206	0	1.389642223
SEPT9	0	-0.826456284	0.23	0.498	0	0.563912691
TMC6	0	-0.575488035	0.172	0.351	0	0.671059207
TMC8	0	-0.491303179	0.088	0.241	0	0.71138222
ACTG1	0	-0.310572552	0.692	0.897	0	0.806321697
CYBC1	0	-0.41995769	0.077	0.213	0	0.747446544
RAB31	0	1.028203152	0.346	0.165	0	2.039482534
RIOK3	0	0.614128094	0.525	0.333	0	1.530632666
MEX3C	0	0.33072164	0.267	0.137	0	1.257642293
PMAIP1	0	0.78603206	0.375	0.189	0	1.724325408
SMOX	0	0.564427849	0.123	0.02	0	1.478800923
CPNE1	0	-0.45718755	0.112	0.252	0	0.728404858
ROMO1	0	0.443739173	0.39	0.248	0	1.360124931
RBM39	0	0.392922399	0.855	0.791	0	1.313050496
MYL9	0	2.062535822	0.088	0.014	0	4.177198847
STK4	0	-0.508440812	0.547	0.705	0	0.702981773
B4GALT5	0	0.347750367	0.194	0.077	0	1.27257472
PTPN1	0	0.752085998	0.506	0.252	0	1.6842263
GNAS	0	0.667055393	0.915	0.857	0	1.587828826
GZMM	0	-0.994318034	0.152	0.361	0	0.501973102
ARHGAP45	0	-0.517430178	0.225	0.403	0	0.698615144
ABHD17A	0	-0.605714096	0.255	0.425	0	0.657146029
AES	0	-0.934232029	0.655	0.838	0	0.523320968
S1PR4	0	-0.525497728	0.094	0.26	0	0.694719391
MATK	0	-0.631330348	0.064	0.189	0	0.645580833
EEF2	0	-0.531212218	0.78	0.884	0	0.691973063
RETN	0	2.2811942	0.241	0.088	0	4.860801431
MCEMP1	0	0.270969951	0.112	0.034	0	1.206618788
MYO1F	0	-0.833961366	0.207	0.382	0	0.560986763
EIF3G	0	-0.661287567	0.523	0.705	0	0.632313722
ICAM3	0	-0.586444498	0.404	0.606	0	0.66598219
TRIR	0	-0.431116683	0.592	0.715	0	0.741687478
JUNB	0	-1.062061124	0.752	0.879	0	0.478947317
RASAL3	0	-0.488208422	0.06	0.2	0	0.712909859
KLF2	0	-0.442711405	0.752	0.825	0	0.735750537
REX1BD	0	-0.511853188	0.253	0.417	0	0.70132099
HCST	0	-0.717183259	0.501	0.688	0	0.608283907
EIF3K	0	-0.317517803	0.754	0.847	0	0.802449327
ARHGEF1	0	-0.709417605	0.258	0.49	0	0.61156697
CD177	0	0.948444107	0.039	0	0	1.929790328
NOP53	0	-0.372235785	0.712	0.859	0	0.772584273
DBP	0	-0.299677321	0.02	0.121	0	0.812434088
CD37	0	-0.744122155	0.72	0.859	0	0.59703104
NOSIP	0	-0.655027539	0.182	0.352	0	0.635063369
ADA2	0	-0.506489718	0.062	0.194	0	0.703933125
EIF3D	0	-0.44300313	0.416	0.554	0	0.735601777
RAC2	0	-0.541338382	0.395	0.58	0	0.687133163
LGALS2	0	-0.780646197	0.009	0.153	0	0.582106004
EIF3L	0	-0.474163868	0.509	0.639	0	0.719883887
DDX17	0	-0.920340097	0.32	0.576	0	0.528384446
SUN2	0	-0.745359122	0.198	0.413	0	0.596519365
RPL3	0	-0.586316346	0.923	0.992	0	0.666041351
ATF4	0	0.458001395	0.541	0.375	0	1.373637561
SMDT1	0	-0.43130968	0.506	0.629	0	0.741588265
NRIP1	0	0.556889972	0.358	0.179	0	1.471094548
BACH1	0	0.403603877	0.396	0.241	0	1.322808185
ETS2	0	0.99901606	0.259	0.099	0	1.998636434
MX1	0	0.746285384	0.264	0.104	0	1.677468161
MT-ND3	0	-0.55909913	0.99	0.997	0	0.678725852
MT-ND4	0	-0.472094134	0.994	0.998	0	0.720917395
SLC7A5	9.31E-307	0.334746721	0.17	0.07	3.12E-302	1.261155982
KRR1	1.26E-305	0.341288746	0.464	0.296	4.23E-301	1.266887787
TMEM38B	8.92E-303	0.277590068	0.159	0.062	2.99E-298	1.212168341
FAM107B	1.40E-302	0.457344582	0.67	0.529	4.70E-298	1.373012331
PSTPIP1	2.64E-302	-0.423652357	0.103	0.226	8.85E-298	0.745534821
SAMD3	3.17E-302	-0.454630779	0.031	0.132	1.06E-297	0.729696896
CLNS1A	3.17E-302	-0.39375959	0.147	0.279	1.06E-297	0.761143517
SECISBP2L	4.45E-301	0.381451043	0.27	0.143	1.49E-296	1.302651385
UBE2D3	5.47E-301	0.328843156	0.806	0.719	1.83E-296	1.256005825
PCGF5	8.49E-301	0.359347262	0.452	0.291	2.85E-296	1.282845351
SLC2A4RG	8.60E-299	-0.384909924	0.08	0.199	2.88E-294	0.765826812
MOB1A	9.72E-299	0.410538841	0.582	0.426	3.26E-294	1.329182166
ARHGAP4	2.09E-298	-0.437603925	0.204	0.337	7.02E-294	0.738359883
CTDSP1	2.18E-298	-0.421071922	0.128	0.256	7.32E-294	0.746869494
GSTK1	9.39E-298	-0.42865351	0.449	0.569	3.15E-293	0.742954873
WDR43	5.56E-297	0.337812693	0.334	0.193	1.86E-292	1.263839002
GZMK	4.58E-295	-0.918614044	0.02	0.112	1.54E-290	0.529016988
FLT3LG	2.25E-293	-0.371909916	0.051	0.159	7.54E-289	0.7727588
RNASE2	6.56E-292	0.350595634	0.133	0.049	2.20E-287	1.275086954
YWHAH	6.10E-291	0.872615834	0.323	0.193	2.05E-286	1.830979747
HLA-DPA1	8.67E-291	-0.897183592	0.44	0.556	2.91E-286	0.536933903
ATF6B	1.91E-290	-0.40131118	0.128	0.255	6.39E-286	0.757169824
TECR	2.00E-290	-0.438568541	0.168	0.299	6.69E-286	0.737866365
NPM1	1.73E-289	-0.33874353	0.783	0.881	5.79E-285	0.790728687
TGFB1I1	2.46E-289	0.371309435	0.042	0.003	8.24E-285	1.293526343
RPS4X	3.37E-289	-0.293809477	0.943	0.992	1.13E-284	0.815745214
SELP	6.19E-289	0.415824582	0.045	0.004	2.08E-284	1.334060951
ARHGAP30	1.82E-288	-0.449919338	0.184	0.314	6.11E-284	0.732083778
LBH	9.47E-288	-0.457691039	0.08	0.196	3.18E-283	0.728150695
SAT1	1.02E-287	0.396731408	0.76	0.634	3.43E-283	1.316521797
KLRB1	1.35E-286	-1.104094341	0.088	0.206	4.54E-282	0.465194408
TBC1D15	1.79E-286	0.341186397	0.313	0.178	5.99E-282	1.266797914
SPOCK2	3.34E-286	-0.445897389	0.221	0.365	1.12E-281	0.73412753
STK10	1.17E-285	-0.448930181	0.186	0.315	3.92E-281	0.73258589
Z93241.1	1.00E-284	0.286529399	0.156	0.063	3.37E-280	1.219702584
CD55	1.55E-284	0.437722917	0.538	0.394	5.21E-280	1.354464815
DPP7	7.01E-284	-0.405130142	0.296	0.428	2.35E-279	0.755168168
NDUFB5	4.00E-283	-0.397319317	0.146	0.271	1.34E-278	0.759267775
SOD2	1.33E-282	0.897135987	0.357	0.233	4.47E-278	1.862365177
NAGK	5.51E-282	-0.387864522	0.068	0.18	1.85E-277	0.764260026
AQP3	1.40E-281	-0.390324516	0.027	0.12	4.68E-277	0.762957967
SEPT6	5.80E-281	-0.4162328	0.306	0.441	1.94E-276	0.749378868
ZBTB20	1.66E-280	-0.376906331	0.13	0.264	5.57E-276	0.770087172
FURIN	2.68E-280	0.334361249	0.254	0.133	9.00E-276	1.260819059
COX17	5.70E-280	0.400210411	0.409	0.263	1.91E-275	1.319700369
TMEM154	3.90E-277	-0.328226018	0.057	0.165	1.31E-272	0.796515302
TRAPPC6A	1.83E-276	-0.339475598	0.126	0.254	6.14E-272	0.790328535
ZCCHC2	3.37E-276	0.337466953	0.227	0.116	1.13E-271	1.263536161
ANXA1	8.98E-276	-0.370921975	0.393	0.584	3.01E-271	0.773288158
CAPZA2	1.00E-275	0.457846633	0.433	0.294	3.36E-271	1.373490216
ITGB2	1.83E-275	-0.334199839	0.382	0.572	6.13E-271	0.79322396
LGALSL	6.49E-274	0.343593859	0.045	0.005	2.18E-269	1.268913617
C19orf33	4.75E-272	0.599833341	0.051	0.007	1.59E-267	1.515541482
ALOX12	8.20E-271	0.337244765	0.037	0.002	2.75E-266	1.26334158
GTPBP4	1.30E-270	0.289080783	0.32	0.185	4.36E-266	1.221861517
MAZ	1.88E-270	-0.380937828	0.23	0.36	6.30E-266	0.767938228
TMEM123	4.90E-270	0.555534489	0.624	0.499	1.64E-265	1.469713031
PCSK6	1.70E-269	0.299915539	0.038	0.003	5.69E-265	1.231072339
GIMAP2	1.74E-269	-0.297466828	0.04	0.137	5.83E-265	0.813679851
AP1S2	1.86E-269	-0.787655881	0.2	0.309	6.25E-265	0.57928456
ZDHHC20	3.00E-269	0.343307175	0.29	0.166	1.01E-264	1.268661491
SPARC	5.25E-268	0.931560966	0.084	0.023	1.76E-263	1.907338581
LTF	1.66E-267	0.510542291	0.028	0	5.57E-263	1.424585579
RBM3	2.10E-267	0.345874766	0.818	0.765	7.05E-263	1.270921361
PRDX2	1.67E-266	-0.432811296	0.191	0.315	5.60E-262	0.740816791
RAB21	6.67E-266	0.343743138	0.433	0.285	2.24E-261	1.269044921
SORL1	1.18E-265	-0.35831529	0.215	0.353	3.97E-261	0.780074982
SLC25A24	3.42E-265	0.252913084	0.201	0.096	1.15E-260	1.191610784
IFNGR2	1.14E-264	0.475806117	0.37	0.242	3.81E-260	1.390695064
EGFL7	6.22E-264	0.306913431	0.044	0.005	2.09E-259	1.237058246
RSRP1	8.43E-264	-0.382977065	0.385	0.514	2.83E-259	0.76685352
NFKB1	8.47E-263	0.350790648	0.383	0.243	2.84E-258	1.275259323
UQCRH	8.74E-263	0.437574185	0.787	0.71	2.93E-258	1.354325186
SPCS3	3.27E-262	0.389208767	0.507	0.37	1.10E-257	1.309674928
PPBP	5.45E-261	4.228587047	0.139	0.058	1.83E-256	18.74698969
ATP5IF1	6.39E-261	-0.388229477	0.338	0.468	2.14E-256	0.764066717
IER2	9.11E-261	-0.421148452	0.644	0.732	3.06E-256	0.746829876
IRF3	3.21E-260	-0.370105838	0.102	0.218	1.08E-255	0.773725733
LMNA	4.66E-260	0.445754742	0.246	0.131	1.56E-255	1.362026471
CDK5RAP3	9.64E-259	-0.330166601	0.071	0.178	3.23E-254	0.795444621
HBG2	2.38E-258	0.700545564	0.033	0.001	7.97E-254	1.625119226
CCDC71L	8.09E-258	0.29924825	0.231	0.119	2.71E-253	1.230503064
DBF4	6.22E-257	0.362414085	0.302	0.176	2.09E-252	1.285575272
DOCK8	1.84E-256	-0.397197622	0.19	0.316	6.17E-252	0.759331824
ATP5MC2	5.21E-256	-0.286600665	0.747	0.831	1.75E-251	0.819831504
TXN	1.21E-255	0.663142122	0.474	0.378	4.06E-251	1.58352772
HAGH	3.77E-255	-0.31660214	0.061	0.163	1.27E-250	0.802958795
HSD17B11	6.87E-255	-0.382242138	0.191	0.313	2.30E-250	0.767244265
CASP1	8.74E-255	-0.466430382	0.124	0.235	2.93E-250	0.723753145
YWHAE	2.88E-254	0.41107316	0.425	0.288	9.66E-250	1.329674535
ASXL1	6.25E-254	0.287706152	0.345	0.206	2.10E-249	1.220697855
RPL23A	1.11E-253	-0.258167684	0.915	0.991	3.72E-249	0.836149209
IL10RA	6.17E-253	-0.482628905	0.265	0.38	2.07E-248	0.715672324
BIN1	6.48E-253	-0.398073173	0.181	0.302	2.17E-248	0.758871136
MT-ATP6	6.53E-253	-0.263157494	0.996	0.998	2.19E-248	0.833262238
PABPC1	1.35E-252	-0.311612562	0.877	0.905	4.52E-248	0.805740645
INO80D	2.69E-252	0.282432147	0.297	0.169	9.03E-248	1.216243544
FGL2	3.51E-251	-0.821621489	0.079	0.178	1.18E-246	0.565805659
HLA-DMA	1.56E-250	-0.665893823	0.266	0.384	5.23E-246	0.630298081
TLE3	8.95E-250	0.34210443	0.324	0.196	3.00E-245	1.267604275
APEX1	9.29E-250	-0.379498367	0.222	0.346	3.12E-245	0.768704827
TSPAN33	2.60E-249	0.648536497	0.183	0.089	8.71E-245	1.567577202
CIITA	2.89E-249	-0.284327533	0.022	0.105	9.69E-245	0.821124261
HOPX	3.96E-249	-0.694851857	0.088	0.195	1.33E-244	0.617772751
POU2F2	7.88E-249	-0.555980562	0.169	0.284	2.64E-244	0.680194591
CD7	8.81E-249	-0.514410645	0.255	0.393	2.96E-244	0.700078863
MIF	3.13E-248	0.350567154	0.591	0.456	1.05E-243	1.275061782
APBB1IP	3.32E-248	-0.401220616	0.17	0.287	1.12E-243	0.757217356
CSK	4.95E-248	-0.445486444	0.22	0.337	1.66E-243	0.734336673
RPL36AL	7.49E-248	-0.254894986	0.876	0.937	2.51E-243	0.838048134
IRF8	2.62E-247	0.441464433	0.311	0.19	8.80E-243	1.357982072
PPP1R15A	2.76E-247	0.279448432	0.552	0.394	9.25E-243	1.213730764
TRADD	1.20E-245	-0.367698357	0.074	0.177	4.02E-241	0.775017957
PDLIM2	1.80E-245	-0.374219231	0.099	0.205	6.04E-241	0.771522838
MIER1	6.28E-244	0.324274727	0.453	0.308	2.11E-239	1.252034856
EIF3F	1.29E-243	-0.289872467	0.708	0.788	4.32E-239	0.817974364
ATP13A3	2.32E-243	0.327634235	0.249	0.137	7.79E-239	1.254953784
ADAM8	3.07E-243	-0.314280686	0.059	0.159	1.03E-238	0.804251883
C1QB	1.43E-242	0.651414369	0.035	0.003	4.80E-238	1.570707309
APOBEC3G	1.91E-242	-0.42430485	0.083	0.188	6.42E-238	0.745197712
RPLP0	4.79E-241	0.354990977	0.897	0.952	1.61E-236	1.278977582
CCNL1	5.70E-241	0.373355991	0.734	0.626	1.91E-236	1.295362595
GTF3C6	8.96E-241	0.397912993	0.365	0.239	3.00E-236	1.317600486
SPN	9.07E-241	-0.435186287	0.097	0.201	3.04E-236	0.739598248
TNFRSF1B	1.26E-240	-0.588702248	0.239	0.351	4.23E-236	0.664940775
AC016831.7	1.39E-240	0.300711465	0.251	0.137	4.66E-236	1.231751702
GBP5	3.68E-240	0.460798461	0.244	0.138	1.24E-235	1.376303324
CCM2	4.52E-240	-0.36162548	0.125	0.238	1.52E-235	0.778287192
CALD1	4.45E-238	0.414656535	0.041	0.005	1.49E-233	1.332981294
ARL6IP4	6.13E-237	-0.310142296	0.588	0.696	2.05E-232	0.806562202
RLF	3.47E-236	0.25686153	0.249	0.136	1.16E-231	1.194876515
UBE2Q1	4.11E-236	0.25516947	0.289	0.166	1.38E-231	1.19347593
GNA12	5.08E-236	0.284499667	0.188	0.093	1.70E-231	1.217987787
CYTH1	8.78E-236	-0.387824889	0.321	0.437	2.94E-231	0.764281022
ATG16L2	1.23E-235	-0.318540324	0.066	0.164	4.14E-231	0.801880787
RORA	1.65E-235	-0.461896121	0.19	0.313	5.53E-231	0.726031415
RELB	2.43E-235	0.274942916	0.332	0.202	8.14E-231	1.209946214
SPX	3.24E-235	0.300108893	0.037	0.003	1.09E-230	1.231237342
ALKBH7	9.10E-235	-0.384996217	0.289	0.403	3.05E-230	0.765781007
PRMT1	2.43E-234	-0.358472794	0.113	0.22	8.14E-230	0.779989823
CARD8	6.88E-234	-0.315848611	0.086	0.19	2.31E-229	0.803378295
WDFY1	3.87E-233	0.280667156	0.231	0.124	1.30E-228	1.214756503
IFIT2	1.55E-232	0.301073903	0.111	0.041	5.20E-228	1.232061185
SNHG15	5.51E-232	0.353692386	0.423	0.288	1.85E-227	1.277826873
FLI1	7.92E-232	-0.267278097	0.045	0.135	2.66E-227	0.830885683
PF4V1	8.20E-231	0.370973516	0.036	0.004	2.75E-226	1.293225192
ITGAE	1.04E-230	0.309819544	0.336	0.21	3.48E-226	1.239552644
HNRNPH1	2.20E-230	-0.36368191	0.592	0.677	7.37E-226	0.777178605
RBBP6	2.81E-230	0.334306895	0.517	0.373	9.41E-226	1.260771559
DEF6	1.50E-229	-0.302441147	0.07	0.169	5.01E-225	0.810879167
MYBL1	1.66E-228	-0.348277839	0.027	0.107	5.57E-224	0.785521224
EIF4A2	6.79E-228	-0.329890169	0.519	0.623	2.28E-223	0.795597049
ATOX1	2.30E-227	0.484778259	0.301	0.192	7.73E-223	1.399370767
YTHDC1	3.71E-227	0.326638865	0.484	0.341	1.24E-222	1.254088242
TRMT112	3.85E-227	-0.377603435	0.299	0.414	1.29E-222	0.769715159
TRGC2	1.03E-226	-0.425697436	0.015	0.087	3.44E-222	0.744478744
LPAR6	4.96E-226	-0.275442564	0.039	0.124	1.66E-221	0.826196833
LILRB1	2.86E-225	0.536896544	0.185	0.097	9.59E-221	1.450848164
CD8A	1.73E-224	-0.541692633	0.065	0.162	5.79E-220	0.68696446
CTDSPL	4.18E-224	0.352983374	0.047	0.008	1.40E-219	1.277199041
ETF1	6.90E-224	0.269487136	0.394	0.258	2.31E-219	1.205379251
MMP9	1.25E-223	1.04353162	0.039	0.005	4.20E-219	2.061267325
SNCA	2.74E-223	0.843961546	0.091	0.031	9.19E-219	1.794972258
MAP2K2	3.98E-223	-0.366132767	0.304	0.417	1.34E-218	0.775859451
ABTB1	5.19E-223	-0.25859216	0.087	0.191	1.74E-218	0.835903229
MIR22HG	7.95E-223	0.279981062	0.21	0.111	2.66E-218	1.214178946
DENND6A	6.92E-222	0.252954409	0.234	0.129	2.32E-217	1.191644916
ARRDC1	7.84E-222	-0.282789459	0.059	0.151	2.63E-217	0.822000138
TSC22D3	7.37E-221	0.293350984	0.854	0.758	2.47E-216	1.225483435
JAK3	1.00E-220	0.283878759	0.24	0.132	3.36E-216	1.217463701
CRIP1	1.40E-220	-0.357254761	0.266	0.397	4.70E-216	0.780648628
TPM3	4.70E-220	0.621158127	0.766	0.74	1.58E-215	1.538109407
IL2RG	1.30E-219	-0.385827439	0.191	0.308	4.34E-215	0.765339922
DOK2	4.31E-219	-0.366346735	0.187	0.303	1.45E-214	0.775744391
SEC61G	8.36E-219	0.412245987	0.618	0.518	2.80E-214	1.330755922
TXNDC17	1.16E-218	0.359482585	0.304	0.192	3.88E-214	1.282965686
PF4	5.08E-218	4.026529297	0.111	0.045	1.70E-213	16.29694114
LENG8	7.19E-218	-0.365532016	0.259	0.375	2.41E-213	0.776182593
CTSW	9.01E-218	-0.615932265	0.18	0.303	3.02E-213	0.652508109
TNFSF12	1.09E-217	-0.288918211	0.067	0.16	3.67E-213	0.818515583
LACTB	1.41E-217	0.293865265	0.258	0.15	4.72E-213	1.225920364
CHPT1	4.79E-217	0.265196078	0.365	0.233	1.61E-212	1.201799376
PTPN4	5.34E-217	-0.340955559	0.083	0.183	1.79E-212	0.789518207
RGS14	5.62E-217	-0.263474026	0.036	0.117	1.89E-212	0.833079437
LILRA1	7.66E-217	0.424017108	0.147	0.069	2.57E-212	1.341658135
SNRPA1	1.20E-216	0.305263667	0.467	0.327	4.03E-212	1.235644443
LYAR	1.89E-215	-0.542755085	0.156	0.266	6.34E-211	0.68645874
CTTN	1.90E-214	0.373961451	0.046	0.008	6.39E-210	1.295906339
FLOT1	6.51E-214	0.36943843	0.27	0.161	2.18E-209	1.29184988
SRP19	6.69E-214	0.300195491	0.441	0.305	2.24E-209	1.23131125
MRPS35	8.75E-214	0.260907574	0.263	0.153	2.94E-209	1.198232254
DNAJC3	1.60E-213	0.296498425	0.323	0.204	5.36E-209	1.228159917
CDC25B	1.99E-213	-0.306994813	0.039	0.119	6.66E-209	0.808323775
CLIC3	1.74E-212	-0.536061749	0.023	0.096	5.83E-208	0.689650942
SSBP4	3.28E-212	-0.400181032	0.224	0.333	1.10E-207	0.757763192
DIAPH1	3.48E-212	-0.322589489	0.171	0.283	1.17E-207	0.799633329
RSBN1L	1.36E-211	-0.325106167	0.085	0.183	4.57E-207	0.798239642
SH3GLB1	2.46E-210	0.352999364	0.426	0.304	8.23E-206	1.277213196
YBX3	7.49E-210	0.469765461	0.437	0.307	2.51E-205	1.384884309
HMGN3	1.32E-209	-0.351328302	0.252	0.368	4.43E-205	0.783862057
KLRG1	1.64E-209	-0.33729031	0.022	0.094	5.50E-205	0.791526573
MPHOSPH8	2.22E-209	-0.348167062	0.248	0.371	7.44E-205	0.785581542
LCOR	2.97E-209	0.291403982	0.353	0.228	9.95E-205	1.223830689
TNFAIP2	4.61E-209	-0.58935147	0.092	0.182	1.55E-204	0.664641614
TSC22D4	6.96E-209	-0.338942906	0.156	0.263	2.33E-204	0.790620404
LAMTOR4	1.13E-208	-0.331924837	0.485	0.586	3.79E-204	0.794475791
FAM111A	1.41E-208	-0.284369736	0.056	0.144	4.74E-204	0.821100241
PLEK	3.52E-208	0.565012152	0.426	0.308	1.18E-203	1.479399971
SLC25A45	9.75E-208	-0.285164496	0.042	0.124	3.27E-203	0.820648033
HAUS3	8.82E-207	0.259451417	0.225	0.124	2.96E-202	1.197023452
SH3YL1	9.13E-207	-0.322034557	0.071	0.163	3.06E-202	0.799940967
CD79B	1.13E-206	-0.796994062	0.083	0.172	3.79E-202	0.575547115
SSBP3	2.48E-206	-0.318679704	0.067	0.157	8.30E-202	0.80180332
CFLAR	6.26E-206	0.398700781	0.536	0.402	2.10E-201	1.318320163
CD63	1.12E-205	1.212621598	0.528	0.48	3.76E-201	2.317583949
ZNF326	2.84E-205	0.276934256	0.336	0.213	9.54E-201	1.211617445
AP1G2	1.27E-204	-0.253225668	0.034	0.112	4.26E-200	0.839018387
MEAF6	1.51E-204	-0.338201916	0.15	0.255	5.05E-200	0.791026583
TMEM258	1.54E-204	-0.344500811	0.399	0.508	5.15E-200	0.787580441
C1orf56	3.52E-204	-0.43202518	0.201	0.311	1.18E-199	0.741220568
NFATC3	3.98E-204	-0.331335787	0.096	0.193	1.34E-199	0.79480024
CSNK1G2	4.14E-204	-0.344627046	0.173	0.282	1.39E-199	0.787511531
CD2AP	4.19E-204	0.26730115	0.186	0.097	1.40E-199	1.203554231
SLC9A3R1	6.86E-204	-0.346607533	0.125	0.227	2.30E-199	0.786431202
XAF1	2.70E-203	0.49456769	0.234	0.142	9.05E-199	1.40889851
VPS51	5.48E-203	-0.35454028	0.223	0.331	1.84E-198	0.782118828
CCDC85B	8.73E-203	-0.342208807	0.36	0.468	2.93E-198	0.788832662
TUBB1	1.37E-202	0.938648115	0.074	0.023	4.58E-198	1.916731313
FGD3	1.68E-202	-0.308838827	0.083	0.178	5.62E-198	0.807291257
BTN3A1	1.69E-202	-0.256983124	0.044	0.127	5.68E-198	0.836836032
GRK6	4.81E-202	-0.361209299	0.195	0.3	1.61E-197	0.778511741
CCDC107	9.12E-202	-0.35129951	0.096	0.19	3.06E-197	0.783877701
HLA-DRB1	1.17E-201	-0.93852955	0.446	0.524	3.91E-197	0.521764412
S100A8	1.27E-201	2.944888609	0.387	0.306	4.25E-197	7.700160988
LINC00861	1.77E-201	-0.346377795	0.055	0.141	5.94E-197	0.786556445
CRYBG1	2.01E-201	0.407403262	0.265	0.163	6.73E-197	1.326296435
CD247	6.26E-201	-0.512409659	0.242	0.364	2.10E-196	0.701050531
CORO1B	6.52E-201	-0.311297564	0.122	0.224	2.19E-196	0.80591659
NEXN	9.12E-201	0.566225409	0.054	0.012	3.06E-196	1.480644619
PHC2	9.33E-200	0.384257611	0.246	0.148	3.13E-195	1.305187984
FAM133B	9.79E-200	0.419418894	0.629	0.517	3.28E-195	1.337388757
PTGER2	1.28E-199	0.366355491	0.242	0.144	4.30E-195	1.289092234
AP001189.1	1.62E-199	0.407947007	0.049	0.01	5.43E-195	1.326796404
ABHD14B	1.89E-199	-0.309791702	0.13	0.232	6.34E-195	0.806758231
CD8B	1.99E-199	-0.533630019	0.061	0.149	6.67E-195	0.690814361
GBP1	4.60E-199	0.341186383	0.155	0.077	1.54E-194	1.266797902
BCL7C	2.06E-198	-0.360917912	0.21	0.314	6.90E-194	0.778668995
EVI2B	4.01E-198	-0.430574637	0.405	0.503	1.34E-193	0.741966195
TXNIP	3.30E-197	0.630403673	0.894	0.929	1.11E-192	1.54799807
ORMDL1	5.80E-197	-0.364077364	0.312	0.417	1.95E-192	0.776965603
MHENCR	7.76E-197	-0.333899987	0.127	0.229	2.60E-192	0.793388842
MRPS6	9.15E-197	-0.309310714	0.078	0.168	3.07E-192	0.807027246
MTRF1L	3.24E-196	0.257259289	0.174	0.088	1.09E-191	1.195205994
CLEC4A	5.86E-195	-0.261391772	0.046	0.125	1.97E-190	0.834282696
ATP5F1A	3.25E-194	-0.333987156	0.377	0.477	1.09E-189	0.793340906
MORF4L1	1.61E-193	0.281870221	0.74	0.652	5.41E-189	1.215769912
EIF4B	3.79E-193	-0.280007767	0.562	0.651	1.27E-188	0.823586583
ITGB2-AS1	8.87E-193	-0.261512455	0.047	0.127	2.98E-188	0.834212911
CD300A	1.29E-192	-0.351083516	0.061	0.143	4.33E-188	0.783995068
PTGES3	2.91E-192	-0.326033929	0.499	0.585	9.74E-188	0.797726479
GLIPR1	1.25E-191	-0.431490778	0.193	0.292	4.18E-187	0.741495181
OGT	2.38E-191	-0.321664902	0.169	0.276	7.98E-187	0.800145958
TEX264	6.77E-191	-0.292779435	0.098	0.192	2.27E-186	0.81632784
CD5	1.20E-190	-0.272802517	0.038	0.113	4.03E-186	0.827710109
UBXN11	1.81E-190	-0.27165205	0.071	0.157	6.08E-186	0.828370424
RPL23	1.82E-190	0.338181531	0.887	0.942	6.10E-186	1.264162155
S100A12	4.17E-190	2.398597046	0.275	0.192	1.40E-185	5.272901499
GLRX	1.04E-189	-0.417504562	0.193	0.292	3.47E-185	0.748718568
EPC1	3.43E-189	0.283611154	0.633	0.502	1.15E-184	1.217237896
GNG11	4.56E-189	1.804643197	0.093	0.036	1.53E-184	3.493427493
SEPT1	6.73E-189	-0.341692079	0.187	0.294	2.26E-184	0.789115247
ZNF644	1.15E-188	0.290611856	0.373	0.251	3.85E-184	1.223158917
RIT1	1.16E-188	0.261982654	0.275	0.168	3.88E-184	1.199125496
HMOX2	1.56E-188	-0.294240135	0.073	0.16	5.24E-184	0.815501743
POLR3GL	5.65E-188	-0.334839415	0.133	0.23	1.90E-183	0.792872385
ATP5MPL	6.14E-188	0.4296829	0.662	0.596	2.06E-183	1.346937491
NCF1	8.29E-188	-0.554420705	0.233	0.331	2.78E-183	0.680930422
EIF3H	1.49E-187	-0.260806108	0.662	0.736	4.99E-183	0.834621443
MIR4435-2HG	1.96E-187	0.392288903	0.175	0.092	6.56E-183	1.312474054
MGMT	5.13E-187	-0.284241727	0.086	0.175	1.72E-182	0.8211731
RCSD1	8.28E-187	-0.361113286	0.227	0.334	2.78E-182	0.778563553
PRR5	1.32E-186	-0.266319172	0.026	0.094	4.42E-182	0.831438136
GNA15	3.70E-186	0.262803942	0.163	0.083	1.24E-181	1.199808321
ADD3	8.66E-186	-0.318170468	0.252	0.361	2.91E-181	0.802086387
TNRC6B	1.27E-185	-0.323247026	0.321	0.439	4.26E-181	0.799268964
CHMP4A	2.06E-185	-0.333487616	0.236	0.343	6.90E-181	0.793615652
DGKA	2.10E-185	-0.298553827	0.069	0.155	7.04E-181	0.813067015
LAPTM5	2.32E-185	0.471628231	0.814	0.829	7.77E-181	1.38667359
APOBEC3A	5.49E-185	-0.464170761	0.034	0.106	1.84E-180	0.724887612
TMBIM4	8.04E-185	-0.34780285	0.292	0.396	2.70E-180	0.78577989
WHAMM	1.06E-184	0.27287457	0.42	0.291	3.54E-180	1.208212795
N4BP2L2	1.11E-184	-0.306883586	0.509	0.605	3.72E-180	0.808386096
TBCA	1.33E-184	-0.311835039	0.347	0.461	4.45E-180	0.805616402
RAB32	6.36E-184	0.717979639	0.247	0.153	2.13E-179	1.644876923
CHRAC1	9.95E-184	0.252454034	0.29	0.181	3.34E-179	1.191231686
CD69	2.35E-183	0.438767084	0.528	0.426	7.89E-179	1.355445479
ABI3	3.08E-183	-0.276279873	0.037	0.11	1.03E-178	0.825717466
GRINA	5.87E-183	0.498163079	0.274	0.184	1.97E-178	1.412414052
PDLIM5	1.38E-182	0.264152619	0.181	0.097	4.64E-178	1.200930464
DGCR6L	1.77E-182	-0.294132262	0.126	0.222	5.93E-178	0.815562721
TGFBI	2.29E-182	-0.425596799	0.086	0.17	7.69E-178	0.744530678
PSIP1	2.98E-182	-0.339425748	0.227	0.334	9.99E-178	0.790355844
HNRNPC	3.77E-182	0.279803463	0.735	0.649	1.27E-177	1.214029487
RHOT2	6.52E-182	-0.272543227	0.074	0.16	2.19E-177	0.827858884
PTCRA	5.19E-181	0.662670824	0.041	0.008	1.74E-176	1.583010499
PRRC2C	6.17E-181	0.36736062	0.74	0.665	2.07E-176	1.28999066
GMPR	9.65E-181	0.329362378	0.049	0.011	3.24E-176	1.25645794
MAF1	1.73E-180	-0.312247003	0.245	0.348	5.79E-176	0.80538639
ARID5B	1.78E-180	0.337821971	0.326	0.212	5.98E-176	1.26384713
TNFAIP8	5.27E-180	-0.357956388	0.249	0.352	1.77E-175	0.780269067
AOAH	3.73E-179	-0.384107823	0.112	0.201	1.25E-174	0.76625271
MRPS21	1.72E-178	-0.335783108	0.287	0.386	5.77E-174	0.792353923
SUB1	2.14E-178	0.31588248	0.826	0.799	7.18E-174	1.244772833
FAM162A	2.87E-178	-0.291334848	0.122	0.216	9.61E-174	0.817145648
ATP5F1D	3.02E-178	-0.270488216	0.558	0.65	1.01E-173	0.829038947
PABPN1	4.23E-178	-0.342387528	0.277	0.376	1.42E-173	0.788734947
CLEC12A	4.74E-178	-0.397127854	0.062	0.14	1.59E-173	0.759368545
SH3KBP1	4.91E-178	-0.336277581	0.236	0.338	1.65E-173	0.792082396
RASSF1	5.87E-178	-0.341596802	0.113	0.206	1.97E-173	0.789167363
LILRA5	1.91E-177	0.542321975	0.217	0.132	6.41E-173	1.456314527
TPGS1	4.74E-177	-0.276098017	0.086	0.171	1.59E-172	0.825821556
AKAP9	6.14E-177	-0.292835235	0.237	0.349	2.06E-172	0.816296267
SELPLG	1.16E-176	-0.309920106	0.083	0.168	3.91E-172	0.806686431
EVI2A	2.39E-176	-0.304066578	0.108	0.199	8.02E-172	0.809966094
RCN2	5.14E-176	0.360740568	0.339	0.232	1.72E-171	1.284084879
TMEM134	6.90E-176	-0.277348936	0.094	0.182	2.31E-171	0.825105821
DENND2D	5.24E-175	-0.270118925	0.036	0.106	1.76E-170	0.829251186
RNF126	5.82E-175	-0.338355092	0.216	0.316	1.95E-170	0.790942602
SEC11A	6.66E-175	-0.366271484	0.378	0.471	2.23E-170	0.775784855
PLCB2	6.10E-174	-0.259077797	0.055	0.131	2.05E-169	0.835621897
ZC3H15	6.86E-174	0.2849453	0.577	0.452	2.30E-169	1.218364068
TMEM14C	5.40E-173	-0.292868487	0.119	0.208	1.81E-168	0.816277453
STK17A	9.64E-173	0.339015594	0.592	0.468	3.23E-168	1.264893214
MT2A	5.77E-172	2.091299433	0.416	0.342	1.94E-167	4.261317164
PHB2	1.19E-171	-0.328548725	0.34	0.432	4.00E-167	0.796337154
INPP5D	8.69E-171	-0.303608507	0.152	0.251	2.91E-166	0.810223308
HCLS1	1.66E-170	-0.30651338	0.348	0.452	5.57E-166	0.808593561
CCR7	1.74E-170	0.456667886	0.346	0.246	5.82E-166	1.37236847
ANAPC16	2.08E-170	-0.327458552	0.432	0.524	6.98E-166	0.796939134
MAD1L1	3.62E-170	-0.270479808	0.092	0.179	1.21E-165	0.829043778
NCR3	9.43E-170	-0.322580106	0.035	0.104	3.16E-165	0.79963853
PSMC5	7.00E-169	-0.320968179	0.241	0.337	2.35E-164	0.800532467
HNRNPF	9.48E-169	-0.322794965	0.367	0.458	3.18E-164	0.799519449
TUFM	1.17E-168	-0.323416135	0.279	0.373	3.91E-164	0.799175281
EIF4G2	1.69E-168	0.377367872	0.611	0.527	5.66E-164	1.298969784
NEDD8	2.99E-168	-0.26551265	0.362	0.475	1.00E-163	0.831903072
TTC3	3.95E-168	-0.319750567	0.276	0.38	1.32E-163	0.80120839
RASSF4	1.66E-167	-0.251641217	0.04	0.109	5.58E-163	0.839940351
MYLK	4.14E-167	0.285019534	0.037	0.006	1.39E-162	1.218426761
DNAJA1	7.41E-167	0.289719557	0.531	0.406	2.49E-162	1.222402634
NSD3	9.80E-167	-0.324489904	0.346	0.443	3.29E-162	0.798580692
NFATC2IP	1.28E-166	-0.295484748	0.123	0.214	4.29E-162	0.814798513
MRPL34	1.28E-166	-0.290965655	0.122	0.211	4.29E-162	0.817354786
UBE2D1	3.48E-166	0.321167096	0.253	0.161	1.17E-161	1.249340819
SCN1B	5.27E-166	0.268451321	0.046	0.011	1.77E-161	1.204514133
ZBTB43	5.49E-166	0.270458207	0.268	0.166	1.84E-161	1.206190859
STUB1	6.20E-166	-0.306696648	0.271	0.368	2.08E-161	0.80849085
FCER1G	1.27E-165	1.296028689	0.374	0.314	4.26E-161	2.455520197
SIGIRR	2.55E-165	-0.357214519	0.236	0.331	8.56E-161	0.780670404
CYFIP2	4.43E-165	-0.32942648	0.149	0.243	1.49E-160	0.795852799
RPL36A	1.15E-164	-0.315490092	0.776	0.829	3.85E-160	0.803577964
OSM	1.34E-164	-0.268086851	0.018	0.076	4.51E-160	0.830420031
MGLL	2.91E-164	0.431647163	0.077	0.028	9.78E-160	1.348772627
AC147651.1	3.05E-164	0.313100711	0.039	0.008	1.02E-159	1.242375006
IQGAP1	5.83E-164	0.424997263	0.559	0.473	1.96E-159	1.342569955
CAVIN2	7.75E-164	1.205897638	0.085	0.034	2.60E-159	2.306807531
TSEN54	1.12E-163	-0.270843153	0.048	0.121	3.77E-159	0.828835009
ZC3H7A	2.46E-163	0.254360667	0.307	0.203	8.26E-159	1.192807031
NELL2	3.19E-163	-0.263673201	0.041	0.109	1.07E-158	0.832964433
NCL	3.23E-161	0.403937677	0.704	0.637	1.08E-156	1.323114282
SPCS2	7.69E-160	-0.3246805	0.284	0.38	2.58E-155	0.798475197
PSMB8-AS1	1.15E-159	-0.268334083	0.086	0.17	3.87E-155	0.830277736
SLA	3.06E-159	0.369036737	0.317	0.219	1.03E-154	1.291490237
EPB41	5.28E-159	-0.280736193	0.205	0.306	1.77E-154	0.823170854
STMN3	5.41E-159	-0.279239103	0.071	0.15	1.81E-154	0.824025505
USP15	1.90E-158	0.311989298	0.566	0.446	6.37E-154	1.241418282
MARCKSL1	4.79E-158	-0.405417494	0.147	0.233	1.61E-153	0.755017771
DNAJB1	5.47E-158	-0.421780359	0.249	0.336	1.83E-153	0.746502833
PDE7A	7.42E-158	-0.28144583	0.076	0.155	2.49E-153	0.82276605
TCL1A	1.90E-157	-0.674306983	0.015	0.069	6.37E-153	0.626633158
SERF2	6.47E-157	0.575177569	0.897	0.951	2.17E-152	1.489860826
UQCRC2	1.65E-156	-0.305942384	0.207	0.297	5.53E-152	0.808913653
KLRF1	2.87E-156	-0.477145627	0.041	0.108	9.61E-152	0.718397569
TPM1	3.21E-156	1.166532916	0.104	0.048	1.08E-151	2.244715981
IL2RB	4.45E-156	-0.369031748	0.043	0.111	1.49E-151	0.774301989
RNF145	6.87E-156	0.283231208	0.409	0.298	2.30E-151	1.216917367
FAXDC2	1.03E-155	0.260513919	0.035	0.006	3.47E-151	1.197905348
ZDHHC19	1.74E-155	0.291504965	0.035	0.006	5.84E-151	1.223916356
LYZ	3.48E-155	-1.554051722	0.291	0.393	1.17E-150	0.340552299
NR4A2	1.34E-154	-0.508658627	0.23	0.315	4.48E-150	0.702875646
ISG15	2.58E-154	0.748166722	0.311	0.223	8.65E-150	1.679657081
MARCKS	3.28E-154	0.417201811	0.358	0.249	1.10E-149	1.335335083
CD151	3.92E-154	0.696955983	0.169	0.095	1.31E-149	1.621080779
CA2	5.12E-154	0.820607885	0.071	0.026	1.72E-149	1.766150009
USP16	6.99E-154	0.283628195	0.471	0.353	2.35E-149	1.217252273
NDUFV1	2.65E-153	-0.302185375	0.137	0.223	8.88E-149	0.811022939
LINC01871	4.69E-153	-0.328939566	0.036	0.1	1.57E-148	0.796121447
PRKAR1B	1.49E-151	0.367955894	0.062	0.021	5.01E-147	1.290523036
CYB561A3	4.25E-151	-0.298314927	0.083	0.16	1.43E-146	0.813201664
RNASEH2B	5.82E-151	-0.299943026	0.141	0.229	1.95E-146	0.812284474
PGD	9.48E-151	0.380309447	0.233	0.151	3.18E-146	1.301621013
HIST1H1D	1.46E-150	0.305218839	0.267	0.172	4.90E-146	1.235606049
LRCH4	1.46E-150	-0.272072754	0.107	0.188	4.90E-146	0.828128898
TMEM109	3.06E-150	-0.261711984	0.077	0.153	1.03E-145	0.834097544
OSTF1	4.43E-150	-0.3275754	0.235	0.325	1.48E-145	0.79687459
EPSTI1	5.13E-150	0.264869926	0.149	0.08	1.72E-145	1.201527715
STX8	1.86E-149	-0.269128633	0.095	0.174	6.24E-145	0.829820594
AKAP17A	7.28E-149	-0.292655133	0.144	0.23	2.44E-144	0.816369178
EZR	8.11E-149	0.542712855	0.6	0.516	2.72E-144	1.456709151
AKIRIN2	8.28E-149	0.264713356	0.324	0.22	2.78E-144	1.201397324
CHD1	9.95E-149	0.279034618	0.505	0.387	3.34E-144	1.213382676
KRAS	2.92E-147	0.262780673	0.434	0.32	9.78E-143	1.199788969
TRIM28	4.71E-147	-0.274770574	0.12	0.202	1.58E-142	0.826581756
WAS	9.02E-147	-0.329202894	0.234	0.32	3.03E-142	0.795976149
RBM17	2.13E-146	0.259091219	0.451	0.338	7.16E-142	1.196724627
9-Mar	1.65E-145	-0.261178663	0.068	0.14	5.55E-141	0.834405942
CNPY3	1.85E-145	-0.383591722	0.266	0.347	6.20E-141	0.766526874
RPS6KA1	1.94E-145	-0.273263906	0.094	0.171	6.50E-141	0.827445441
PKN1	2.08E-145	-0.312841278	0.269	0.359	6.97E-141	0.805054703
STXBP2	6.55E-145	1.079110483	0.368	0.298	2.20E-140	2.11273304
S100A6	3.58E-144	0.434173624	0.663	0.828	1.20E-139	1.35113668
RCAN3	5.03E-144	-0.368831331	0.178	0.263	1.69E-139	0.77440956
PDZK1IP1	7.55E-144	0.287433428	0.032	0.006	2.53E-139	1.220467119
CCND2	1.02E-143	-0.280902359	0.092	0.169	3.41E-139	0.823076049
OXLD1	2.07E-143	-0.25091485	0.094	0.172	6.93E-139	0.84036335
MRPS34	4.25E-143	-0.295094708	0.173	0.258	1.43E-138	0.815018828
SH3BGRL2	1.72E-142	0.263033954	0.037	0.008	5.76E-138	1.199999624
PPP1R35	6.95E-142	-0.257431671	0.112	0.193	2.33E-137	0.836575892
CPD	9.52E-142	0.335932775	0.198	0.119	3.19E-137	1.262193217
NECAP2	3.65E-141	-0.2717706	0.193	0.284	1.22E-136	0.828302357
IRF9	4.27E-141	0.352143436	0.22	0.142	1.43E-136	1.276455671
AC103591.3	7.29E-141	0.269414375	0.288	0.19	2.45E-136	1.20531846
COX7A2L	7.65E-141	-0.279400932	0.402	0.481	2.57E-136	0.823933078
TRAT1	2.57E-140	-0.252781027	0.048	0.113	8.61E-136	0.839277013
PHB	4.24E-140	-0.276977067	0.12	0.199	1.42E-135	0.825318527
SERPINB1	9.13E-140	0.445477769	0.51	0.415	3.06E-135	1.36176501
VAMP8	1.57E-139	-0.261848023	0.383	0.481	5.26E-135	0.834018897
TNFRSF14	1.65E-139	-0.285183918	0.278	0.369	5.54E-135	0.820636985
EID1	2.04E-139	-0.280345574	0.457	0.536	6.84E-135	0.823393763
LYN	2.47E-139	0.269641191	0.447	0.338	8.27E-135	1.205507971
CARD16	4.25E-139	-0.325342316	0.224	0.31	1.42E-134	0.798108992
GADD45A	4.84E-139	0.276206183	0.203	0.121	1.62E-134	1.211006143
NOP58	5.92E-139	0.302941531	0.341	0.244	1.98E-134	1.233657172
CFD	9.66E-139	-0.805505417	0.15	0.22	3.24E-134	0.572161601
TPM4	1.18E-138	1.144683168	0.387	0.3	3.95E-134	2.210975699
RNF11	2.42E-138	0.282611693	0.226	0.14	8.11E-134	1.216394917
NUBP2	2.65E-138	-0.256912508	0.091	0.165	8.89E-134	0.836876994
TMEM259	4.94E-138	-0.289733148	0.226	0.314	1.66E-133	0.818053358
PYHIN1	5.81E-138	-0.299091134	0.059	0.128	1.95E-133	0.812764259
C1QA	3.91E-137	0.767731109	0.047	0.014	1.31E-132	1.702590056
MT1X	4.54E-137	0.403667892	0.208	0.13	1.52E-132	1.322866882
RBX1	1.08E-136	0.358051994	0.528	0.423	3.63E-132	1.281694115
VAPA	1.13E-136	0.352286954	0.606	0.523	3.80E-132	1.276582658
CNIH4	1.18E-136	0.279090103	0.234	0.153	3.95E-132	1.213429343
SP100	1.18E-136	0.304386867	0.527	0.417	3.97E-132	1.234893706
CD74	1.75E-136	-0.466403761	0.621	0.689	5.88E-132	0.7237665
PGRMC1	4.60E-136	0.553035031	0.173	0.101	1.54E-131	1.467168969
NDUFA4	5.97E-136	0.415338863	0.784	0.762	2.00E-131	1.333611882
RUNX1	2.12E-135	0.255574511	0.23	0.147	7.12E-131	1.193811048
MEF2C	2.62E-134	-0.472293471	0.147	0.231	8.80E-130	0.720817793
MAPKAPK2	1.57E-133	0.284565855	0.341	0.243	5.27E-129	1.218043667
RGS1	1.79E-133	0.271273661	0.16	0.09	6.01E-129	1.206872827
GYPC	2.07E-133	0.259834174	0.614	0.495	6.95E-129	1.197341072
PTPN6	6.38E-133	-0.364846497	0.234	0.315	2.14E-128	0.776551496
PARP14	5.39E-132	0.62437702	0.327	0.249	1.81E-127	1.541545017
FIS1	1.31E-131	-0.255040311	0.388	0.471	4.39E-127	0.837963721
SNX18	9.22E-131	0.290328344	0.212	0.135	3.09E-126	1.222918571
PDIA3	9.51E-131	0.373473319	0.566	0.491	3.19E-126	1.295467946
CDKN1B	1.45E-130	-0.308542516	0.234	0.318	4.86E-126	0.807457081
XBP1	1.97E-130	-0.310443102	0.302	0.388	6.59E-126	0.806394049
MPP1	3.02E-130	0.593860132	0.176	0.107	1.01E-125	1.509279638
CTSA	5.81E-130	0.828896026	0.292	0.209	1.95E-125	1.776325569
SLC25A5	7.11E-130	-0.270509343	0.532	0.6	2.38E-125	0.829026806
MXD1	1.99E-129	0.258586769	0.23	0.148	6.66E-125	1.196306256
GATA3	2.77E-129	-0.262148652	0.054	0.119	9.29E-125	0.833845122
SLC25A6	3.13E-129	-0.274563115	0.767	0.8	1.05E-124	0.826700626
FTH1	3.16E-129	0.34300263	0.987	0.986	1.06E-124	1.268393712
NUCB1	3.75E-129	0.35380652	0.333	0.239	1.26E-124	1.277927968
CAMK4	1.48E-128	-0.252309857	0.079	0.15	4.97E-124	0.839551158
PYCARD	2.42E-128	-0.417637642	0.206	0.288	8.13E-124	0.748649506
TAGAP	2.92E-128	-0.335014637	0.203	0.287	9.79E-124	0.792776093
TAX1BP1	4.19E-128	0.291983668	0.543	0.44	1.41E-123	1.224322533
IL27RA	7.10E-128	-0.267114481	0.099	0.172	2.38E-123	0.830979919
CPVL	1.71E-127	-0.704764388	0.136	0.203	5.73E-123	0.613542681
FAM118A	2.41E-127	-0.256878502	0.115	0.19	8.08E-123	0.83689672
FCGRT	4.88E-127	-0.503528679	0.219	0.296	1.64E-122	0.705379386
TNFAIP3	7.34E-126	0.269779031	0.502	0.38	2.46E-121	1.205623155
IRF7	1.10E-125	0.272365824	0.182	0.112	3.70E-121	1.207786811
FCGR2A	1.22E-125	0.469594552	0.223	0.145	4.10E-121	1.384720259
NUP210	1.96E-125	-0.258723247	0.093	0.164	6.59E-121	0.835827281
GCA	2.06E-125	0.289450065	0.249	0.163	6.92E-121	1.222174314
IGBP1	3.13E-125	-0.269947379	0.281	0.364	1.05E-120	0.829349795
NT5C	4.56E-125	-0.281874689	0.148	0.225	1.53E-120	0.822521509
LTA4H	8.42E-125	-0.348304134	0.201	0.281	2.83E-120	0.785506907
RBP7	2.28E-124	-0.304640191	0.055	0.117	7.65E-120	0.809644117
TIMP1	1.23E-123	1.612618816	0.404	0.372	4.14E-119	3.058064458
RGS19	4.90E-123	-0.314448262	0.177	0.254	1.64E-118	0.804158471
DUT	1.05E-122	-0.255515859	0.168	0.25	3.53E-118	0.837687553
RGCC	1.82E-122	-0.650214753	0.175	0.25	6.11E-118	0.637185458
PPP1R14A	2.38E-122	0.61792402	0.061	0.024	7.97E-118	1.53466527
OLFM4	3.08E-122	0.27886181	0.013	0	1.03E-117	1.213237344
RNMT	9.42E-122	0.255107135	0.561	0.456	3.16E-117	1.193424364
CEBPB	1.45E-121	0.481967399	0.507	0.424	4.85E-117	1.396646971
KLF4	2.71E-121	0.290276258	0.237	0.159	9.08E-117	1.22287442
ITGA4	3.38E-121	-0.325243128	0.22	0.303	1.13E-116	0.798163866
CCL5	4.92E-121	-0.60374177	0.235	0.326	1.65E-116	0.658045036
P2RX1	1.44E-120	0.276910108	0.127	0.068	4.83E-116	1.211597166
ACRBP	1.82E-120	0.781514563	0.058	0.022	6.11E-116	1.718934489
CDK13	2.62E-120	-0.275838438	0.244	0.328	8.78E-116	0.825970157
ARPC1B	4.68E-120	0.464249856	0.442	0.576	1.57E-115	1.37959983
UBE2M	4.80E-120	-0.258950511	0.236	0.316	1.61E-115	0.835695626
FCN1	5.53E-120	-1.45858974	0.208	0.263	1.85E-115	0.363848623
AC004687.1	1.75E-119	-0.299363171	0.177	0.257	5.87E-115	0.812611017
LSM4	2.81E-119	-0.25455589	0.225	0.305	9.43E-115	0.838245135
PPIG	4.69E-119	-0.26678003	0.383	0.465	1.57E-114	0.831172582
SPAG7	1.04E-118	-0.274982066	0.167	0.243	3.47E-114	0.826460592
C1orf162	1.69E-118	-0.342343191	0.239	0.319	5.67E-114	0.788759187
ZNF706	7.46E-118	-0.282012445	0.32	0.392	2.50E-113	0.822442974
MACF1	1.06E-117	-0.293381625	0.216	0.295	3.56E-113	0.815987171
DDX46	9.95E-117	-0.269217627	0.269	0.351	3.34E-112	0.829769407
PPDPF	1.90E-116	0.445055665	0.796	0.755	6.36E-112	1.361366643
PARP1	3.19E-116	-0.253469958	0.097	0.166	1.07E-111	0.838876329
MCUR1	6.03E-116	0.339893164	0.138	0.078	2.02E-111	1.265662864
ELOB	6.12E-116	0.451978915	0.716	0.701	2.05E-111	1.367915311
MZT2A	3.28E-115	-0.307070444	0.339	0.408	1.10E-110	0.808281401
ARGLU1	5.18E-115	-0.281236049	0.509	0.57	1.74E-110	0.822885696
TRDC	1.38E-114	-0.414625382	0.028	0.077	4.61E-110	0.750214274
LYST	1.57E-114	-0.349618267	0.234	0.308	5.26E-110	0.784791724
HLA-DRA	2.17E-114	-0.708019874	0.463	0.507	7.28E-110	0.612159763
RBM6	2.67E-114	-0.260808161	0.161	0.239	8.97E-110	0.834620256
TRIM38	3.20E-114	-0.290695273	0.224	0.302	1.07E-109	0.817507985
COX7B	1.86E-113	0.302832495	0.586	0.525	6.24E-109	1.233563938
SAT2	1.37E-112	-0.287784114	0.239	0.313	4.60E-108	0.819159269
POLR2J3.1	2.39E-112	-0.256970342	0.293	0.373	8.02E-108	0.836843446
MT-ND4L	2.60E-112	-0.458823364	0.746	0.748	8.73E-108	0.727579417
PRKCH	3.77E-112	-0.2685065	0.132	0.206	1.26E-107	0.830178515
DAP3	3.96E-112	-0.253047881	0.148	0.22	1.33E-107	0.839121788
GSDMD	4.45E-112	-0.270630063	0.145	0.217	1.49E-107	0.828957439
OPTN	1.39E-111	-0.300026467	0.133	0.203	4.65E-107	0.812237495
CDC14A	9.26E-111	-0.25951402	0.117	0.188	3.11E-106	0.835369271
SEC61B	2.54E-110	0.275597361	0.641	0.584	8.54E-106	1.210495202
STX10	5.71E-110	-0.261663991	0.148	0.218	1.92E-105	0.834125292
ADGRG1	6.27E-110	-0.293511926	0.028	0.076	2.10E-105	0.815913476
SELENOT	1.42E-109	0.256971163	0.504	0.406	4.75E-105	1.19496732
SELENOH	2.24E-109	-0.271811188	0.367	0.437	7.52E-105	0.828279055
C2orf88	2.74E-109	0.337360994	0.042	0.013	9.18E-105	1.263443364
COPS6	4.19E-109	-0.256730089	0.194	0.268	1.40E-104	0.836982818
NCF2	5.18E-109	-0.47000686	0.133	0.195	1.74E-104	0.721961165
PGLS	5.24E-109	-0.298951176	0.34	0.409	1.76E-104	0.81284311
SUMF2	5.63E-109	-0.269511337	0.16	0.232	1.89E-104	0.829600497
SLFN5	7.28E-109	-0.296886986	0.118	0.187	2.44E-104	0.814006948
TAOK3	7.51E-109	-0.256146424	0.248	0.324	2.52E-104	0.8373215
WSB1	1.43E-108	-0.286226826	0.269	0.343	4.79E-104	0.820043971
ANKRD11	1.60E-108	0.290112237	0.571	0.474	5.37E-104	1.222735399
PGK1	2.82E-108	0.395748699	0.578	0.536	9.46E-104	1.315625338
CNOT6L	5.29E-108	0.306846652	0.426	0.334	1.77E-103	1.237000987
MPEG1	1.37E-107	-0.447947142	0.133	0.199	4.60E-103	0.733085237
SNRNP70	6.49E-107	-0.274813085	0.247	0.321	2.18E-102	0.8265574
UTRN	2.13E-106	-0.255705065	0.267	0.349	7.13E-102	0.837577699
HMOX1	2.94E-106	0.657087158	0.198	0.135	9.85E-102	1.576895611
FAM173A	1.29E-105	-0.251590271	0.106	0.17	4.33E-101	0.839970012
AAK1	2.11E-105	-0.285385984	0.388	0.46	7.08E-101	0.820522054
CMTM6	2.50E-104	0.272066536	0.492	0.404	8.39E-100	1.207536281
CCT3	6.30E-104	-0.265000444	0.23	0.302	2.11E-99	0.832198479
VPS13C	4.32E-103	-0.252505897	0.25	0.326	1.45E-98	0.839437083
SLC6A6	1.80E-101	0.332026281	0.205	0.136	6.05E-97	1.258780105
FBP1	2.23E-101	0.34440871	0.171	0.111	7.50E-97	1.269630517
DAP	1.11E-100	0.403943529	0.22	0.149	3.73E-96	1.323119648
PLXNB2	1.21E-100	-0.252128365	0.074	0.131	4.07E-96	0.839656781
ACTB	2.13E-100	0.598311939	0.941	0.983	7.15E-96	1.513944102
2-Mar	3.25E-100	0.761630794	0.244	0.174	1.09E-95	1.695405995
CBX6	9.16E-100	-0.261662187	0.154	0.222	3.07E-95	0.834126335
EMC3	1.17E-99	0.447180188	0.341	0.255	3.92E-95	1.363373067
OST4	1.24E-99	0.498106004	0.715	0.777	4.16E-95	1.412358176
HSPB1	2.41E-99	0.344434162	0.241	0.166	8.10E-95	1.269652915
VSIR	4.65E-99	-0.404950331	0.323	0.386	1.56E-94	0.755262294
ITM2A	4.88E-99	-0.272740633	0.147	0.218	1.63E-94	0.827745615
DDX24	6.12E-99	0.301856104	0.647	0.592	2.05E-94	1.232729366
ALOX5AP	7.79E-99	0.791960769	0.272	0.205	2.61E-94	1.731426048
STAT1	1.07E-98	0.288797958	0.247	0.177	3.58E-94	1.221622007
NDUFB9	6.25E-98	0.257490673	0.521	0.441	2.10E-93	1.195397701
NSMCE3	1.13E-97	-0.269466492	0.246	0.32	3.80E-93	0.829626285
LDHA	1.61E-97	0.346900653	0.581	0.534	5.39E-93	1.271825423
DUS1L	7.21E-97	-0.258629373	0.18	0.247	2.42E-92	0.835881669
HIST1H2AC	7.47E-97	0.898506045	0.13	0.077	2.51E-92	1.864134614
DAB2	1.12E-96	0.257664044	0.056	0.023	3.75E-92	1.195541362
DEK	3.50E-96	0.310875279	0.51	0.444	1.17E-91	1.240460055
ZNF331	4.89E-96	-0.356157472	0.212	0.282	1.64E-91	0.781242602
GPR183	6.43E-96	-0.435825456	0.217	0.283	2.16E-91	0.739270651
RAB27B	7.19E-96	0.352170921	0.045	0.017	2.41E-91	1.276479989
CRTAP	1.03E-95	-0.280982125	0.13	0.192	3.46E-91	0.823030542
LINC00926	2.72E-95	-0.546916494	0.09	0.146	9.12E-91	0.684481524
PTPN12	8.53E-95	0.260271064	0.213	0.145	2.86E-90	1.197703716
PIK3IP1	9.99E-95	0.338064248	0.492	0.417	3.35E-90	1.26405939
MAL	1.18E-94	-0.29523352	0.114	0.177	3.95E-90	0.814940413
ZNF385A	2.30E-94	-0.302414984	0.102	0.16	7.72E-90	0.810893872
CCL3	2.90E-94	0.435253617	0.127	0.074	9.71E-90	1.352148512
MIS18BP1	2.33E-93	-0.258734759	0.175	0.243	7.82E-89	0.835820611
ZYX	4.59E-93	0.569756608	0.337	0.267	1.54E-88	1.484273143
C16orf54	4.99E-93	-0.25664162	0.148	0.212	1.67E-88	0.837034144
PTTG1IP	1.13E-92	0.332876093	0.223	0.155	3.81E-88	1.2595218
NT5C3A	1.00E-91	0.401423998	0.241	0.172	3.37E-87	1.320810962
RSU1	1.72E-91	0.54332194	0.183	0.122	5.77E-87	1.457324282
SAMD9L	2.90E-91	0.257563577	0.13	0.08	9.72E-87	1.19545811
EIF3A	8.93E-90	-0.256993544	0.38	0.44	2.99E-85	0.836829988
C4orf48	1.15E-89	0.440451849	0.339	0.276	3.87E-85	1.357029279
HLA-DRB5	1.25E-89	-0.564933266	0.225	0.288	4.18E-85	0.675986685
ALDH2	1.37E-88	-0.486617088	0.13	0.184	4.59E-84	0.713696653
APMAP	2.10E-88	-0.311586668	0.117	0.175	7.06E-84	0.805755107
RXRA	5.52E-87	-0.304040863	0.115	0.17	1.85E-82	0.809980531
CHCHD10	3.82E-86	-0.255479903	0.319	0.381	1.28E-81	0.83770843
SRGN	8.36E-86	0.315819228	0.741	0.7	2.80E-81	1.24471826
PARVB	2.40E-85	0.958810246	0.151	0.098	8.05E-81	1.943706308
CMC1	3.49E-85	-0.334179629	0.118	0.182	1.17E-80	0.793235072
ENO1	3.97E-85	0.428173315	0.572	0.539	1.33E-80	1.345528841
ZBTB7A	8.58E-85	-0.253243688	0.311	0.373	2.88E-80	0.839007907
HSBP1	1.69E-83	0.355194879	0.278	0.214	5.67E-79	1.279158358
SPON2	2.06E-82	-0.514056286	0.06	0.109	6.90E-78	0.70025084
PRDX6	2.99E-81	0.39889919	0.542	0.471	1.00E-76	1.318501479
NAP1L1	1.33E-80	0.463300306	0.732	0.681	4.47E-76	1.378692107
CD300E	3.01E-80	-0.339162397	0.103	0.156	1.01E-75	0.790500129
RHOA	3.59E-80	0.305197357	0.71	0.669	1.20E-75	1.235587651
TKT	4.56E-80	-0.441165161	0.367	0.428	1.53E-75	0.736539519
CD81	5.81E-80	-0.328700083	0.447	0.49	1.95E-75	0.796253612
GZMH	3.11E-79	-0.590930345	0.112	0.169	1.04E-74	0.663914633
SAMHD1	1.54E-78	-0.349036067	0.325	0.382	5.17E-74	0.785108491
RGS10	5.56E-78	0.524187186	0.379	0.455	1.86E-73	1.438123114
MFSD1	1.10E-77	0.268565375	0.194	0.135	3.70E-73	1.204609361
CDC42SE1	1.79E-76	-0.276689477	0.407	0.457	5.99E-72	0.825483065
SMCHD1	2.06E-76	0.307014839	0.579	0.511	6.90E-72	1.237145203
GSN	2.16E-76	0.499728833	0.143	0.093	7.23E-72	1.413947774
MAX	6.63E-75	0.289977138	0.37	0.293	2.22E-70	1.222620903
SAMSN1	8.74E-75	0.391878805	0.326	0.263	2.93E-70	1.312101025
LRRC25	2.70E-74	0.343887213	0.214	0.158	9.05E-70	1.269171661
LIMS1	2.18E-73	0.881854069	0.29	0.222	7.30E-69	1.842741967
MAP1LC3B	1.29E-72	0.414494125	0.538	0.481	4.31E-68	1.332831243
VPREB3	1.67E-72	-0.254210967	0.029	0.065	5.61E-68	0.838445568
FGFBP2	2.40E-69	-0.606040461	0.105	0.156	8.04E-65	0.656997387
COX5A	6.15E-69	0.267498722	0.455	0.397	2.06E-64	1.203719065
SNX2	1.08E-67	-0.30256075	0.282	0.33	3.61E-63	0.810811946
PTGS1	1.78E-67	0.505101803	0.067	0.036	5.98E-63	1.4192235
HLA-DQA1	3.65E-67	-0.494458085	0.205	0.262	1.22E-62	0.709828258
SH3BGRL3	4.49E-67	0.649530577	0.771	0.912	1.51E-62	1.568657704
TCIRG1	1.36E-66	-0.25199035	0.223	0.276	4.58E-62	0.83973711
CAMTA1	4.31E-66	0.263521927	0.326	0.255	1.45E-61	1.200405578
IFI27L2	7.13E-66	0.386465589	0.323	0.26	2.39E-61	1.307187044
ATP5ME	4.42E-65	0.250213145	0.639	0.6	1.48E-60	1.189382823
TPM2	6.27E-65	0.314888675	0.031	0.011	2.10E-60	1.243915663
CTSS	1.37E-64	-0.61362745	0.473	0.527	4.60E-60	0.653551373
S100A9	6.12E-64	1.708812105	0.408	0.383	2.05E-59	3.268915547
ARHGAP18	6.43E-64	0.329726536	0.076	0.043	2.16E-59	1.256775129
DDIT4	2.97E-63	-0.343760914	0.316	0.358	9.95E-59	0.787984461
PSMB3	6.64E-63	0.293892025	0.453	0.411	2.23E-58	1.225943104
SLC43A2	6.84E-63	-0.30597073	0.135	0.183	2.29E-58	0.80889776
SERPINA1	9.39E-63	0.495957448	0.28	0.231	3.15E-58	1.410256364
NOP10	4.69E-60	0.311100129	0.399	0.347	1.57E-55	1.240653401
LY86	2.33E-59	-0.280101195	0.166	0.212	7.80E-55	0.82353325
HPSE	6.73E-58	0.373652912	0.079	0.047	2.26E-53	1.295629221
IRF1	1.98E-56	0.522199256	0.602	0.571	6.65E-52	1.436142848
CD68	8.30E-56	0.28432491	0.28	0.216	2.78E-51	1.217840258
TUBA1B	3.57E-55	0.566910359	0.49	0.448	1.20E-50	1.481347752
PLPP5	1.19E-53	-0.291482873	0.09	0.13	3.99E-49	0.817061811
PRF1	3.09E-53	-0.341892313	0.123	0.174	1.04E-48	0.789005732
RAP2B	3.41E-53	-0.332672016	0.249	0.293	1.14E-48	0.794064434
CDKN2D	3.41E-52	0.577672246	0.524	0.491	1.15E-47	1.49243929
G0S2	1.42E-51	-0.417710737	0.169	0.118	4.75E-47	0.748611577
TNFSF13B	2.82E-51	-0.250100235	0.116	0.157	9.45E-47	0.840837994
BEX3	2.75E-50	0.678236012	0.099	0.066	9.21E-46	1.60018201
H2AFJ	7.68E-50	0.417623893	0.337	0.292	2.57E-45	1.335725812
ETFA	3.90E-49	0.346049975	0.213	0.162	1.31E-44	1.271075719
GAS2L1	3.68E-47	0.363962191	0.052	0.029	1.23E-42	1.286955519
TMEM50A	7.70E-47	0.270972953	0.499	0.446	2.58E-42	1.206621299
SLC25A37	8.87E-47	0.406604952	0.253	0.201	2.98E-42	1.325562737
PDLIM1	1.73E-46	1.33965494	0.147	0.109	5.79E-42	2.53090778
CYB5R3	4.46E-46	0.378123524	0.197	0.15	1.50E-41	1.299650334
FGR	2.42E-45	-0.287060365	0.195	0.234	8.11E-41	0.819570315
DMTN	9.85E-45	0.279557868	0.045	0.024	3.30E-40	1.213822836
ATP5F1E	1.15E-43	0.349432268	0.931	0.937	3.87E-39	1.274059158
NKG7	2.07E-43	-0.369050889	0.399	0.308	6.94E-39	0.774291716
MTURN	2.48E-43	0.614685864	0.109	0.077	8.31E-39	1.531224548
CCL2	2.26E-42	0.36110932	0.028	0.012	7.59E-38	1.284413131
SLC7A7	7.56E-42	-0.287230761	0.141	0.177	2.54E-37	0.819473522
F13A1	1.18E-41	1.405704891	0.091	0.064	3.95E-37	2.649472019
FKBP11	3.96E-41	0.348719199	0.257	0.213	1.33E-36	1.273429596
SPINT2	6.47E-41	0.451827528	0.27	0.224	2.17E-36	1.367771779
CXXC5	8.04E-40	-0.304505124	0.194	0.229	2.70E-35	0.809719921
SERPINB2	8.05E-40	0.77185621	0.058	0.035	2.70E-35	1.707465241
LILRB2	1.47E-39	0.283885394	0.183	0.145	4.94E-35	1.2174693
CEMIP2	1.48E-39	0.252463277	0.324	0.273	4.97E-35	1.191239317
GADD45B	2.06E-39	0.359770218	0.524	0.471	6.92E-35	1.283221499
CST7	1.15E-38	-0.336574842	0.217	0.258	3.85E-34	0.791919208
EIF2AK1	1.55E-37	0.262479391	0.212	0.165	5.21E-33	1.199538441
OAZ1	3.78E-37	0.794133083	0.661	0.788	1.27E-32	1.734035077
LAIR2	6.04E-37	0.278724556	0.055	0.033	2.03E-32	1.213121925
CTSD	1.18E-36	0.79763818	0.371	0.377	3.97E-32	1.738253121

Supplementary table 6.SEPSIS vs NC diff pval genes

gene	p-value	log2FoldChange	pct.1	pct.2	q-value	FoldChange	Regulation
CD52	0	-1.246478901	0.556	0.878	0	0.421475623	Down
SYTL1	0	-0.669456217	0.06	0.268	0	0.62874363	Down
IFI6	0	1.011616906	0.333	0.187	0	2.016169465	Up
LCK	0	-0.909294857	0.075	0.325	0	0.53244527	Down
SMAP2	0	0.677159595	0.689	0.503	0	1.598988536	Up
IFI44L	0	0.810358036	0.197	0.042	0	1.753646594	Up
CD2	0	-0.676239181	0.175	0.343	0	0.625794472	Down
GLUL	0	1.009743743	0.379	0.244	0	2.013553413	Up
PTPRC	0	-0.617470052	0.705	0.84	0	0.651812962	Down
TRAF3IP3	0	-1.03853462	0.091	0.413	0	0.486821699	Down
ODC1	0	0.667445133	0.515	0.338	0	1.588257832	Up
EIF2AK2	0	0.840360425	0.431	0.196	0	1.790497401	Up
PELI1	0	0.749184577	0.406	0.175	0	1.680842536	Up
DUSP2	0	-1.123830486	0.232	0.394	0	0.458873855	Down
IL1R2	0	1.046206018	0.177	0.006	0	2.065091947	Up
BCL2L11	0	0.617512338	0.33	0.123	0	1.534227407	Up
MARCO	0	0.673572482	0.14	0.044	0	1.595017753	Up
CXCR4	0	-0.615132277	0.608	0.74	0	0.652870031	Down
ANKRD44	0	-0.627726469	0.142	0.361	0	0.647195522	Down
BZW1	0	0.666403148	0.728	0.506	0	1.587111128	Up
AGFG1	0	0.842283915	0.335	0.179	0	1.792886195	Up
ARL4C	0	-0.945690641	0.398	0.596	0	0.519180952	Down
TMEM40	0	0.926409609	0.06	0.008	0	1.900540289	Up
GNAI2	0	-0.623168261	0.449	0.655	0	0.649243576	Down
MTRNR2L12	0	1.194425035	0.437	0.136	0	2.288536077	Up
GP9	0	1.50168977	0.076	0.009	0	2.831741887	Up
CDV3	0	0.608729659	0.707	0.521	0	1.524915878	Up
PLSCR1	0	0.621625948	0.361	0.159	0	1.538608248	Up
TRA2B	0	0.668941614	0.735	0.539	0	1.589906157	Up
S100P	0	0.946994824	0.125	0.007	0	1.927852699	Up
CXCL8	0	1.11521362	0.229	0.108	0	2.166270827	Up
AREG	0	0.937339747	0.253	0.125	0	1.914993834	Up
BASP1	0	0.874495447	0.351	0.162	0	1.833366792	Up
IL7R	0	-1.127570428	0.232	0.394	0	0.457685843	Down
FYB1	0	-0.626537023	0.347	0.537	0	0.647729329	Down
GZMA	0	-0.939640688	0.095	0.227	0	0.521362713	Down
CYSTM1	0	0.910810281	0.205	0.071	0	1.88010115	Up
ANXA6	0	-0.676792264	0.123	0.314	0	0.625554608	Down
RNF144B	0	0.890639481	0.251	0.086	0	1.853997734	Up
LTB	0	-1.488726293	0.395	0.615	0	0.356326999	Down
MPIG6B	0	0.760548154	0.068	0.009	0	1.694134191	Up
GPSM3	0	-0.605436678	0.465	0.695	0	0.657272405	Down
HLA-DMB	0	-0.70068319	0.118	0.286	0	0.615280771	Down
HLA-DPB1	0	-0.955205035	0.441	0.587	0	0.515768284	Down
FKBP5	0	0.660649153	0.386	0.169	0	1.580793756	Up
PIM1	0	0.685023063	0.408	0.212	0	1.607727683	Up
TREML1	0	1.530261724	0.081	0.013	0	2.888382334	Up
HSP90AB1	0	0.732367982	0.784	0.758	0	1.661363751	Up
UBE2J1	0	0.863387431	0.461	0.257	0	1.819305007	Up
SNX9	0	0.836436035	0.483	0.176	0	1.785633545	Up
UPP1	0	0.967646824	0.472	0.305	0	1.95564814	Up
STAG3	0	0.65231676	0.15	0.034	0	1.571690078	Up
NAMPT	0	1.318696522	0.463	0.3	0	2.494406378	Up
PRKAR2B	0	1.088660218	0.103	0.029	0	2.126764394	Up
MTPN	0	0.589970497	0.596	0.429	0	1.505215966	Up
TRBC1	0	-1.012514746	0.123	0.299	0	0.495681477	Down
TRBC2	0	-1.129869581	0.216	0.475	0	0.456957032	Down
GIMAP7	0	-0.926268411	0.12	0.377	0	0.526217666	Down
GIMAP4	0	-0.831329118	0.059	0.291	0	0.562011237	Down
GIMAP1	0	-0.616234125	0.043	0.227	0	0.652371596	Down
CLU	0	1.815897908	0.217	0.031	0	3.520786898	Up
RPS20	0	0.689479814	0.925	0.896	0	1.612701929	Up
ASPH	0	0.718526045	0.179	0.061	0	1.645500022	Up
FABP5	0	0.592555561	0.251	0.108	0	1.507915475	Up
PLIN2	0	0.845206034	0.398	0.192	0	1.796521292	Up
TOMM5	0	0.590472717	0.403	0.191	0	1.505740041	Up
CTSL	0	1.129447771	0.18	0.049	0	2.187749824	Up
AKNA	0	-0.602901437	0.154	0.331	0	0.658428443	Down
STOM	0	0.845910801	0.278	0.125	0	1.79739912	Up
ARPC5L	0	0.631542064	0.556	0.348	0	1.549220035	Up
LCN2	0	1.520652862	0.075	0.007	0	2.869208603	Up
PAXX	0	-0.62123023	0.241	0.422	0	0.650116317	Down
IFITM2	0	1.446966784	0.739	0.544	0	2.726342443	Up
IFITM1	0	0.664893956	0.502	0.298	0	1.585451731	Up
IFITM3	0	1.70177294	0.413	0.178	0	3.253004775	Up
LSP1	0	-1.028208526	0.267	0.63	0	0.490318627	Down
HBB	0	1.12847965	0.24	0.029	0	2.186282226	Up
TRIM22	0	0.831341101	0.397	0.229	0	1.779338633	Up
ADM	0	0.906888353	0.195	0.03	0	1.874997086	Up
MTRNR2L8	0	2.451046126	0.63	0.16	0	5.468124633	Up
AHNAK	0	-0.849267678	0.278	0.518	0	0.55506642	Down
TBC1D10C	0	-0.913451909	0.1	0.379	0	0.530913264	Down
ATM	0	-0.596716397	0.259	0.454	0	0.661257279	Down
JAML	0	-0.62548032	0.068	0.201	0	0.648203933	Down
CD3E	0	-0.952855203	0.233	0.471	0	0.516609041	Down
CD3D	0	-1.057198697	0.194	0.426	0	0.480564273	Down
CD3G	0	-0.997159146	0.123	0.357	0	0.500985535	Down
HSPA8	0	-1.019483085	0.361	0.642	0	0.493293067	Down
ESAM	0	0.701455633	0.058	0.008	0	1.626144693	Up
KLF6	0	0.856712073	0.791	0.581	0	1.810906517	Up
MAP3K8	0	0.996091336	0.476	0.29	0	1.994588775	Up
CCDC6	0	0.638985566	0.319	0.105	0	1.557233802	Up
DDX21	0	0.981806637	0.71	0.468	0	1.974937007	Up
IFIT3	0	0.972746657	0.185	0.026	0	1.962573462	Up
CD9	0	1.054859988	0.117	0.036	0	2.077516576	Up
CD27	0	-0.592763842	0.033	0.185	0	0.663071411	Down
CD163	0	1.396274637	0.214	0.078	0	2.63221008	Up
CLEC1B	0	1.664694978	0.07	0.004	0	3.170466159	Up
LDHB	0	-0.727583374	0.453	0.61	0	0.603914671	Down
RPS26	0	0.67320634	0.935	0.944	0	1.594613005	Up
POMP	0	0.630096526	0.676	0.513	0	1.547668539	Up
TRAC	0	-1.393463059	0.09	0.384	0	0.380649989	Down
CMTM5	0	1.566240613	0.078	0.01	0	2.961320445	Up
HIF1A	0	1.050952471	0.653	0.345	0	2.071897268	Up
FOS	0	0.612994976	0.779	0.589	0	1.529430952	Up
EVL	0	-0.931583301	0.251	0.525	0	0.524282647	Down
THBS1	0	1.180301582	0.229	0.088	0	2.266241457	Up
BCL2A1	0	0.821803998	0.315	0.187	0	1.767614901	Up
RPS17	0	0.726531271	0.666	0.449	0	1.65465595	Up
ISG20	0	1.317237096	0.521	0.425	0	2.49188432	Up
HAPLN3	0	0.646014964	0.201	0.04	0	1.564839794	Up
HBA2	0	0.649103935	0.17	0.026	0	1.56819388	Up
SNHG9	0	0.795070042	0.645	0.337	0	1.735161614	Up
IL32	0	-0.789719626	0.268	0.41	0	0.578456498	Down
YPEL3	0	-0.658679544	0.276	0.519	0	0.633457817	Down
CORO1A	0	-1.0834718	0.493	0.77	0	0.471891863	Down
CNOT1	0	0.589795102	0.564	0.321	0	1.505032981	Up
ACAP1	0	-0.861735054	0.187	0.441	0	0.550290354	Down
VAMP2	0	-0.682320437	0.494	0.688	0	0.623162171	Down
ITGA2B	0	1.485080919	0.084	0.011	0	2.799328737	Up
FMNL1	0	-0.678594514	0.347	0.555	0	0.624773638	Down
SKAP1	0	-0.61006856	0.083	0.263	0	0.655165567	Down
LIMD2	0	-0.863530979	0.585	0.815	0	0.549605757	Down
UBALD2	0	0.591766125	0.692	0.498	0	1.507090576	Up
SEPT9	0	-0.826456284	0.23	0.498	0	0.563912691	Down
RAB31	0	1.028203152	0.346	0.165	0	2.039482534	Up
RIOK3	0	0.614128094	0.525	0.333	0	1.530632666	Up
PMAIP1	0	0.78603206	0.375	0.189	0	1.724325408	Up
MYL9	0	2.062535822	0.088	0.014	0	4.177198847	Up
PTPN1	0	0.752085998	0.506	0.252	0	1.6842263	Up
GNAS	0	0.667055393	0.915	0.857	0	1.587828826	Up
GZMM	0	-0.994318034	0.152	0.361	0	0.501973102	Down
ABHD17A	0	-0.605714096	0.255	0.425	0	0.657146029	Down
AES	0	-0.934232029	0.655	0.838	0	0.523320968	Down
MATK	0	-0.631330348	0.064	0.189	0	0.645580833	Down
RETN	0	2.2811942	0.241	0.088	0	4.860801431	Up
MYO1F	0	-0.833961366	0.207	0.382	0	0.560986763	Down
EIF3G	0	-0.661287567	0.523	0.705	0	0.632313722	Down
ICAM3	0	-0.586444498	0.404	0.606	0	0.66598219	Down
JUNB	0	-1.062061124	0.752	0.879	0	0.478947317	Down
HCST	0	-0.717183259	0.501	0.688	0	0.608283907	Down
ARHGEF1	0	-0.709417605	0.258	0.49	0	0.61156697	Down
CD177	0	0.948444107	0.039	0	0	1.929790328	Up
CD37	0	-0.744122155	0.72	0.859	0	0.59703104	Down
NOSIP	0	-0.655027539	0.182	0.352	0	0.635063369	Down
LGALS2	0	-0.780646197	0.009	0.153	0	0.582106004	Down
DDX17	0	-0.920340097	0.32	0.576	0	0.528384446	Down
SUN2	0	-0.745359122	0.198	0.413	0	0.596519365	Down
RPL3	0	-0.586316346	0.923	0.992	0	0.666041351	Down
ETS2	0	0.99901606	0.259	0.099	0	1.998636434	Up
MX1	0	0.746285384	0.264	0.104	0	1.677468161	Up
GZMK	4.58E-295	-0.918614044	0.02	0.112	1.54E-290	0.529016988	Down
YWHAH	6.10E-291	0.872615834	0.323	0.193	2.05E-286	1.830979747	Up
HLA-DPA1	8.67E-291	-0.897183592	0.44	0.556	2.91E-286	0.536933903	Down
KLRB1	1.35E-286	-1.104094341	0.088	0.206	4.54E-282	0.465194408	Down
SOD2	1.33E-282	0.897135987	0.357	0.233	4.47E-278	1.862365177	Up
C19orf33	4.75E-272	0.599833341	0.051	0.007	1.59E-267	1.515541482	Up
AP1S2	1.86E-269	-0.787655881	0.2	0.309	6.25E-265	0.57928456	Down
SPARC	5.25E-268	0.931560966	0.084	0.023	1.76E-263	1.907338581	Up
PPBP	5.45E-261	4.228587047	0.139	0.058	1.83E-256	18.74698969	Up
HBG2	2.38E-258	0.700545564	0.033	0.001	7.97E-254	1.625119226	Up
TXN	1.21E-255	0.663142122	0.474	0.378	4.06E-251	1.58352772	Up
FGL2	3.51E-251	-0.821621489	0.079	0.178	1.18E-246	0.565805659	Down
HLA-DMA	1.56E-250	-0.665893823	0.266	0.384	5.23E-246	0.630298081	Down
TSPAN33	2.60E-249	0.648536497	0.183	0.089	8.71E-245	1.567577202	Up
HOPX	3.96E-249	-0.694851857	0.088	0.195	1.33E-244	0.617772751	Down
C1QB	1.43E-242	0.651414369	0.035	0.003	4.80E-238	1.570707309	Up
TNFRSF1B	1.26E-240	-0.588702248	0.239	0.351	4.23E-236	0.664940775	Down
MMP9	1.25E-223	1.04353162	0.039	0.005	4.20E-219	2.061267325	Up
SNCA	2.74E-223	0.843961546	0.091	0.031	9.19E-219	1.794972258	Up
TPM3	4.70E-220	0.621158127	0.766	0.74	1.58E-215	1.538109407	Up
PF4	5.08E-218	4.026529297	0.111	0.045	1.70E-213	16.29694114	Up
CTSW	9.01E-218	-0.615932265	0.18	0.303	3.02E-213	0.652508109	Down
TNFAIP2	4.61E-209	-0.58935147	0.092	0.182	1.55E-204	0.664641614	Down
CD79B	1.13E-206	-0.796994062	0.083	0.172	3.79E-202	0.575547115	Down
CD63	1.12E-205	1.212621598	0.528	0.48	3.76E-201	2.317583949	Up
TUBB1	1.37E-202	0.938648115	0.074	0.023	4.58E-198	1.916731313	Up
HLA-DRB1	1.17E-201	-0.93852955	0.446	0.524	3.91E-197	0.521764412	Down
S100A8	1.27E-201	2.944888609	0.387	0.306	4.25E-197	7.700160988	Up
TXNIP	3.30E-197	0.630403673	0.894	0.929	1.11E-192	1.54799807	Up
S100A12	4.17E-190	2.398597046	0.275	0.192	1.40E-185	5.272901499	Up
GNG11	4.56E-189	1.804643197	0.093	0.036	1.53E-184	3.493427493	Up
RAB32	6.36E-184	0.717979639	0.247	0.153	2.13E-179	1.644876923	Up
PTCRA	5.19E-181	0.662670824	0.041	0.008	1.74E-176	1.583010499	Up
MT2A	5.77E-172	2.091299433	0.416	0.342	1.94E-167	4.261317164	Up
FCER1G	1.27E-165	1.296028689	0.374	0.314	4.26E-161	2.455520197	Up
CAVIN2	7.75E-164	1.205897638	0.085	0.034	2.60E-159	2.306807531	Up
TCL1A	1.90E-157	-0.674306983	0.015	0.069	6.37E-153	0.626633158	Down
TPM1	3.21E-156	1.166532916	0.104	0.048	1.08E-151	2.244715981	Up
LYZ	3.48E-155	-1.554051722	0.291	0.393	1.17E-150	0.340552299	Down
ISG15	2.58E-154	0.748166722	0.311	0.223	8.65E-150	1.679657081	Up
CD151	3.92E-154	0.696955983	0.169	0.095	1.31E-149	1.621080779	Up
CA2	5.12E-154	0.820607885	0.071	0.026	1.72E-149	1.766150009	Up
STXBP2	6.55E-145	1.079110483	0.368	0.298	2.20E-140	2.11273304	Up
CFD	9.66E-139	-0.805505417	0.15	0.22	3.24E-134	0.572161601	Down
TPM4	1.18E-138	1.144683168	0.387	0.3	3.95E-134	2.210975699	Up
C1QA	3.91E-137	0.767731109	0.047	0.014	1.31E-132	1.702590056	Up
PARP14	5.39E-132	0.62437702	0.327	0.249	1.81E-127	1.541545017	Up
MPP1	3.02E-130	0.593860132	0.176	0.107	1.01E-125	1.509279638	Up
CTSA	5.81E-130	0.828896026	0.292	0.209	1.95E-125	1.776325569	Up
CPVL	1.71E-127	-0.704764388	0.136	0.203	5.73E-123	0.613542681	Down
TIMP1	1.23E-123	1.612618816	0.404	0.372	4.14E-119	3.058064458	Up
RGCC	1.82E-122	-0.650214753	0.175	0.25	6.11E-118	0.637185458	Down
PPP1R14A	2.38E-122	0.61792402	0.061	0.024	7.97E-118	1.53466527	Up
CCL5	4.92E-121	-0.60374177	0.235	0.326	1.65E-116	0.658045036	Down
ACRBP	1.82E-120	0.781514563	0.058	0.022	6.11E-116	1.718934489	Up
FCN1	5.53E-120	-1.458589744	0.208	0.263	1.85E-115	0.363848623	Down
HLA-DRA	2.17E-114	-0.708019874	0.463	0.507	7.28E-110	0.612159763	Down
HMOX1	2.94E-106	0.657087158	0.198	0.135	9.85E-102	1.576895611	Up
ACTB	2.13E-100	0.598311939	0.941	0.983	7.15E-96	1.513944102	Up
2-Mar	3.25E-100	0.761630794	0.244	0.174	1.09E-95	1.695405995	Up
ALOX5AP	7.79E-99	0.791960769	0.272	0.205	2.61E-94	1.731426048	Up
HIST1H2AC	7.47E-97	0.898506045	0.13	0.077	2.51E-92	1.864134614	Up
PARVB	2.40E-85	0.958810246	0.151	0.098	8.05E-81	1.943706308	Up
GZMH	3.11E-79	-0.590930345	0.112	0.169	1.04E-74	0.663914633	Down
LIMS1	2.18E-73	0.881854069	0.29	0.222	7.30E-69	1.842741967	Up
FGFBP2	2.40E-69	-0.606040461	0.105	0.156	8.04E-65	0.656997387	Down
SH3BGRL3	4.49E-67	0.649530577	0.771	0.912	1.51E-62	1.568657704	Up
CTSS	1.37E-64	-0.61362745	0.473	0.527	4.60E-60	0.653551373	Down
S100A9	6.12E-64	1.708812105	0.408	0.383	2.05E-59	3.268915547	Up
BEX3	2.75E-50	0.678236012	0.099	0.066	9.21E-46	1.60018201	Up
PDLIM1	1.73E-46	1.33965494	0.147	0.109	5.79E-42	2.53090778	Up
MTURN	2.48E-43	0.614685864	0.109	0.077	8.31E-39	1.531224548	Up
F13A1	1.18E-41	1.405704891	0.091	0.064	3.95E-37	2.649472019	Up
SERPINB2	8.05E-40	0.77185621	0.058	0.035	2.70E-35	1.707465241	Up
OAZ1	3.78E-37	0.794133083	0.661	0.788	1.27E-32	1.734035077	Up
CTSD	1.18E-36	0.79763818	0.371	0.377	3.97E-32	1.738253121	Up
MYL6	2.46E-35	1.018984964	0.82	0.877	8.25E-31	2.026492679	Up
MS4A1	1.14E-32	-0.669164538	0.147	0.175	3.82E-28	0.62887076	Down
CALM3	6.04E-30	0.71557554	0.446	0.437	2.03E-25	1.642138192	Up
RUFY1	6.29E-29	0.804287081	0.118	0.091	2.11E-24	1.74628264	Up
TAGLN2	6.17E-28	0.785702738	0.637	0.619	2.07E-23	1.723931843	Up
GSTO1	1.06E-23	0.674840899	0.341	0.335	3.54E-19	1.59642071	Up
RGS18	1.46E-17	1.297757022	0.109	0.09	4.89E-13	2.458463646	Up
TLN1	1.51E-17	1.292844999	0.38	0.357	5.07E-13	2.450107414	Up
VCL	1.52E-17	0.691359946	0.146	0.124	5.09E-13	1.614804985	Up
NRGN	2.42E-17	2.317188931	0.183	0.159	8.12E-13	4.983602258	Up
LGALS1	3.64E-14	1.150257391	0.41	0.445	1.22E-09	2.219534896	Up
MNDA	8.23E-13	-0.925696799	0.189	0.196	2.76E-08	0.526426201	Down
CST3	6.33E-07	-0.631183258	0.32	0.308	0.021226173	0.645646657	Down
NCOA4	4.09E-06	0.963110999	0.25	0.232	0.13729073	1.949509249	Up
FERMT3	7.97E-05	0.85987806	0.271	0.295	1	1.814884906	Up
GAPDH	0.000138857	0.684462591	0.765	0.867	1	1.607103218	Up

Supplementary table 7.Core genes are based on survival analysis from prospective studies

Gene	Mortality in the low expression group	HR (Low vs High)	95% CI	p-value
LTB	60.0% (6/10)	1.56	0.45 - 5.42	0.48
CD3D	72.7% (8/11)	3.25	1.02 - 10.34	0.046
TRAF3IP3	54.5% (6/11)	1.89	0.62 - 5.78	0.26
CD3G	63.6% (7/11)	2.33	0.76 - 7.12	0.14
GZMM	66.7% (8/12)	2.67	0.85 - 8.41	0.09
HLA-DPB1	58.3% (7/12)	1.82	0.59 - 5.64	0.3
CD3E	75.0% (9/12)	4.5	1.30 - 15.54	0.017