

Table S5 Prognostic analysis of 470 pyroptosis-related DEGs using univariate Cox regression analysis

Gene Symbol	HR	HR.95L	HR.95H	P
HMMR	1.358150335	1.195719544	1.542646301	2.47E-06
CCNA2	1.303944922	1.161273698	1.464144381	7.16E-06
TK1	1.328671907	1.170803567	1.507826835	1.07E-05
AL691432.2	0.648799261	0.532463983	0.790552027	1.78E-05
CFL1	2.002892258	1.454616781	2.757824225	2.08E-05
CDK1	1.275457805	1.131802389	1.437346861	6.59E-05
NCAPG	1.266356535	1.127353868	1.422498222	6.87E-05
ESYT3	0.750623161	0.651269698	0.865133342	7.50E-05
CENPM	1.331321883	1.153121138	1.537061371	9.49E-05
BIRC5	1.230597498	1.105074849	1.370377947	0.000156745
CDC20	1.225336499	1.102138661	1.362305478	0.000170721
SKA1	1.267559505	1.119552891	1.435132822	0.000182136
PFN1	1.86168294	1.328265556	2.609315098	0.000308586
AC135050.6	0.701885156	0.571985362	0.861285629	0.000698757
AC022497.1	0.705274432	0.575096473	0.864919274	0.000796858
MIR223HG	0.742308177	0.623494311	0.883763364	0.000812678
BLOC1S4	1.531562517	1.189208012	1.972475565	0.000958615
TREML1	0.657795704	0.512198934	0.844779556	0.001032825
PARP15	0.778629585	0.670214749	0.90458175	0.001072257
SNX30	0.801903397	0.701656211	0.916473122	0.001194947
RPL32P1	0.738936791	0.614819682	0.888110118	0.001260939
TAP2	1.315730238	1.109113434	1.560837699	0.001643172
APOL2	1.351808757	1.118642722	1.633575116	0.001804724
INMT	0.859418301	0.780886853	0.945847421	0.001943778
ZDHHC11B	0.840778116	0.752857547	0.938966268	0.002087681
HLA-DQB1-AS1	0.850276638	0.766547555	0.943151349	0.002165479
LRP2BP	0.680912952	0.531556479	0.872235532	0.002350761
LINC02390	0.500267616	0.319056473	0.784399344	0.002543116
GHRL	0.633222447	0.468512896	0.855836993	0.002951191
NEIL1	0.789534742	0.675194431	0.92323793	0.003070637
YWHAE	1.507109699	1.148398907	1.977866427	0.003099876
AC092279.2	0.758753613	0.63163337	0.911457616	0.003168345
LYPD5	1.231080851	1.071349133	1.414627607	0.003368594
SCN4B	0.790657614	0.675532362	0.925402688	0.003438457
GAB3	0.750566702	0.618815489	0.910368896	0.003574117
ANKRD44	0.770775285	0.645640195	0.920163497	0.00397048
CENPW	1.194761967	1.056646246	1.350930989	0.004524705
RASGRP2	0.772446422	0.646104074	0.923494369	0.004605798

RAMAC	1.479680246	1.126191276	1.94412235	0.00490486
N4BP2L1	0.760363545	0.626984488	0.922116466	0.005370558
DPEP2	0.784919761	0.661321623	0.931617853	0.005601939
ADGRE4P	0.723084485	0.57468377	0.90980675	0.005666497
TBC1D27P	0.663741047	0.494485367	0.890930666	0.006354698
CKS2	1.212017168	1.053268009	1.394693092	0.007263643
AC133065.3	0.830571965	0.724912167	0.95163224	0.007492989
MAIP1	1.460260939	1.106343961	1.927395174	0.007503957
TTC16	0.645265565	0.466656567	0.892235703	0.008059039
LINC00926	0.791495672	0.665768047	0.940966454	0.008063661
TLR2	0.858031499	0.765512634	0.961732073	0.008532159
C1orf210	0.813934763	0.698120904	0.948961411	0.00856561
TMSB10	1.278083655	1.064252132	1.534878607	0.008624614
TRAV14DV4	0.7769198	0.643303756	0.938288281	0.008754279
BTNL9	0.817020702	0.702344683	0.950420561	0.008820021
TRBV18	0.801214196	0.676639333	0.948724315	0.010156531
RAB1A	1.544018233	1.106483964	2.154565616	0.010613552
ECHDC2	0.786104667	0.653324076	0.945871384	0.010788517
RNASEH2A	1.239394539	1.049166403	1.464113624	0.011585635
MRPL19	1.41613172	1.079165199	1.858315159	0.012091014
LGALS17A	1.245030525	1.048837125	1.477923475	0.012246468
TRBV7-6	0.779467944	0.640850387	0.948068829	0.012640571
TRBV5-1	0.823622281	0.706986918	0.959499595	0.012751938
CHST11	1.219681525	1.041783467	1.427957988	0.013554651
SARM1	0.709999334	0.540838352	0.932069726	0.013640106
AL353597.3	0.19875065	0.054691165	0.72227061	0.014121425
AC025279.1	0.217552936	0.063720788	0.742760426	0.014907017
CGNL1	0.842581863	0.733937215	0.967309166	0.015021643
AC098935.2	0.695541399	0.518422547	0.933172835	0.015468872
TRAV8-2	0.786619812	0.646565423	0.957011782	0.016431237
AP000763.3	0.710700708	0.537656241	0.939439474	0.016449966
LY86-AS1	0.153655239	0.033081626	0.713687169	0.016827597
RHOH	0.820902605	0.697264644	0.96646387	0.017810794
MRPL30	1.39245192	1.058749442	1.831332581	0.017867163
AC007342.7	0.736642238	0.571515236	0.949479126	0.018260517
AC012368.1	0.776314366	0.62890495	0.958275165	0.018440344
SPATA6L	0.762036789	0.606488609	0.957478935	0.019649053
CLEC12B	0.424897657	0.206336446	0.874969123	0.020212617
OR52N4	0.606092811	0.396829906	0.925707691	0.02049228
CXCR6	0.828488689	0.706532192	0.97149644	0.020563614
DRC3	0.795624868	0.655308547	0.965986075	0.020913367
MAMDC2	0.880751583	0.790705415	0.981052281	0.021021089

TRBV3-1	0.824950281	0.70029282	0.971797719	0.021322791
PDCL3	1.363295878	1.04485165	1.778793813	0.022417997
TSPYL2	0.803520779	0.665394043	0.970320744	0.02302459
ACOXL-AS1	0.642493226	0.438549313	0.941279654	0.023174332
NICN1	0.776177742	0.623162509	0.966765295	0.023718082
AC068896.1	0.484106447	0.257923433	0.908638074	0.02393328
SUSD3	0.83884146	0.719688539	0.977721551	0.024563431
AL109659.2	0.690554577	0.49989363	0.953934187	0.024701049
CD2	0.865247744	0.762234496	0.982182861	0.025225432
HMGB1P6	1.269227735	1.029704323	1.564467591	0.025464071
PBX4	0.78629973	0.635625865	0.97269054	0.026754665
AC102945.2	0.845930034	0.729044503	0.981555474	0.027430113
SIT1	0.859089661	0.749238621	0.985046718	0.029570516
KCNJ11	0.869335098	0.765462563	0.987303035	0.031022556
CD48	0.873363388	0.772159074	0.987832213	0.031178455
ITGA9-AS1	0.623977035	0.406199973	0.958511488	0.031284494
AC008124.1	0.72940176	0.545936652	0.974521358	0.032796928
TRBV28	0.869532866	0.764344953	0.989196568	0.033579943
EPSTI1	1.164817384	1.011721204	1.341080461	0.033833661
AC023509.2	0.630515815	0.40977568	0.970165416	0.035929524
DBF4	1.22026023	1.012836457	1.47016334	0.036247206
SEPTIN7P14	0.756698416	0.582024319	0.98379479	0.037344861
PDXDC2P- NPIP14P	0.829029556	0.69480588	0.989182771	0.037465477
VIPR1-AS1	0.692269133	0.488923514	0.980187163	0.038195861
CARF	0.743917017	0.56158207	0.985452631	0.039196863
THEMIS	0.827027085	0.689709285	0.991684198	0.040354099
AC020659.1	0.765092642	0.592166813	0.988516644	0.040528799
TGFBI	1.109154054	1.004314785	1.224937375	0.040859599
DAAM2-AS1	0.713400795	0.515974171	0.986368548	0.041052939
ACP1	1.354537299	1.011378696	1.814128874	0.041763306
CORO1A	0.86357877	0.7491978	0.995422426	0.043046894
AC023510.2	0.78019461	0.613265024	0.992562115	0.04330631
CFAP221	0.886182098	0.788112316	0.996455319	0.043455382
MS4A14	0.809691455	0.65966653	0.993835857	0.043476418
UBE2L6	1.180901407	1.003204392	1.390073792	0.045671749
XCL2	0.85311315	0.728906122	0.998485298	0.047833363
SH2D1A	0.865587028	0.75016991	0.998761605	0.04804896
AC016722.2	0.682072992	0.466275463	0.997744046	0.048655075
TRBV6-5	0.848901421	0.720775299	0.999803439	0.049725375
GHITM	1.278095799	0.999744253	1.633946747	0.050239047
CASP6	1.262364165	0.999708309	1.594028248	0.050287199

GLUD1P3	0.802024645	0.642821538	1.00065647	0.050683353
CD247	0.851509267	0.724475418	1.00081799	0.051170785
TRBV4-1	0.851584032	0.724075301	1.001546886	0.052223506
LCK	0.868968329	0.753983163	1.00148915	0.052450702
A2MP1	0.385705975	0.147076935	1.011505304	0.052781009
ERMN	0.722509112	0.519735693	1.00439401	0.053128227
AC011346.1	0.730221009	0.530127109	1.005839377	0.054313466
MIR621	1.187837789	0.996786105	1.415507906	0.054356616
CTSW	0.892988542	0.795363096	1.002596851	0.055357627
AC005225.4	0.694061016	0.477485769	1.008869216	0.055659455
IL15RA	1.19693477	0.994985711	1.439872782	0.056566355
AC005274.1	0.732200402	0.530803841	1.010010454	0.057528841
IMPG1	0.682647952	0.460337521	1.012318584	0.057556299
CD70	1.147643563	0.995455595	1.323098443	0.057799709
ILF2	1.242163062	0.991758759	1.555790719	0.059036825
TRBV7-9	0.876856673	0.764967865	1.005111013	0.059191462
MCCC1-AS1	0.843397081	0.706562796	1.006730953	0.059336599
GBP2	1.153303081	0.993796232	1.33841119	0.060377891
AC022400.4	0.799343455	0.63236518	1.010412936	0.061024632
ICOS	0.854345975	0.724594405	1.007331882	0.061062291
WDR12	1.283335339	0.988300446	1.66644627	0.061252684
CD3D	0.888903103	0.785688156	1.005677279	0.061474476
MYOCD	0.779253972	0.599057165	1.013654102	0.063042762
RASGRP4	0.818894741	0.661227224	1.014157574	0.067082234
TRAV5	0.824615184	0.669213777	1.016103113	0.070292539
VENTX	0.818685644	0.658124482	1.018418556	0.072477722
CRTAM	0.844733261	0.702488148	1.015781241	0.072888202
AC108134.3	0.834347102	0.684508685	1.01698503	0.072940843
RRN3P2	0.771767264	0.581318747	1.024609499	0.07316209
LINC01934	0.64333368	0.396967139	1.04260072	0.073356078
TOMM20P2	0.825932289	0.668803806	1.019976472	0.07569135
GBP1	1.108175468	0.989278108	1.241362625	0.076095307
MCUB	1.153197289	0.984726343	1.350490924	0.076902198
BBS5	0.780407686	0.592489811	1.027926802	0.077732264
CCDC30	0.751905358	0.547428956	1.03275806	0.078253698
ATP1A4	0.25125515	0.052965719	1.191886969	0.082039915
PTRH1	0.541299714	0.270789745	1.082040165	0.082414744
ARMH1	0.853907455	0.713021386	1.022631236	0.086032645
AL450263.1	0.819516993	0.652288011	1.029618957	0.087395556
EPM2AIP1	0.795734907	0.610814412	1.036639002	0.090399422
NISCH	0.837266879	0.681066997	1.029290553	0.091809838
IGKC	0.938832541	0.871978443	1.010812304	0.094005967

AC048382.2	0.854692703	0.710816438	1.027690946	0.095012775
TRAV12-2	0.874222737	0.746451756	1.023864419	0.095431972
SYNE3	0.812410926	0.635797026	1.038085246	0.096693157
CSPG4P10	0.856906848	0.713966701	1.028464415	0.097210999
INTS6L	0.836762822	0.677743028	1.033093653	0.09747703
RAPGEF3	0.844029579	0.690633925	1.031495709	0.097530035
PTPN7	0.875913518	0.748480432	1.025042818	0.098611979
NFKBID	0.852661508	0.705546483	1.030451805	0.099039795
AL157935.2	0.827022112	0.659752176	1.036700748	0.099488945
TRDV1	0.874508639	0.742641863	1.029790263	0.107844749
AF131215.4	0.557441441	0.272876886	1.13875882	0.108836747
CASQ1	0.714175806	0.472781107	1.078822893	0.109716721
TRAV4	0.866069937	0.726101945	1.033019041	0.109873098
TRBV27	0.841899215	0.681739713	1.03968461	0.109935269
AP000907.2	0.728802245	0.494133577	1.074917263	0.110580687
AL663070.1	0.894324471	0.778067183	1.027952698	0.115964406
PLEK	0.909397642	0.807728798	1.023863546	0.116394975
SLFN14	0.473839669	0.186286741	1.205260398	0.116877695
ELN	0.928978888	0.847192308	1.018661013	0.117172901
LILRB1	0.881852291	0.752839626	1.032973607	0.119240531
CCDC200	0.80802904	0.617735302	1.056942882	0.119765177
GZMM	0.904223688	0.796283088	1.026796237	0.120600339
LAT	0.763684595	0.542736052	1.074581573	0.121822683
MZB1	0.933604544	0.855655322	1.018654851	0.122477312
AC083843.2	0.884109819	0.755320461	1.034858993	0.125178322
XKR6	0.745871909	0.512545122	1.085416445	0.125580855
IL21-AS1	0.484142532	0.191342045	1.224999927	0.125647556
SNX10	1.116638416	0.969392194	1.286250662	0.126238799
IL21R	0.882312289	0.750566522	1.037183186	0.129142328
NOL7	1.260851271	0.933792188	1.702462227	0.130315252
CD96	0.892708369	0.770098088	1.034839906	0.132158926
PPP1R18	1.128740822	0.963655669	1.322106935	0.133334468
RPN2	1.195578022	0.944514205	1.513377775	0.137462764
TRAV19	0.878249055	0.739449229	1.043102587	0.139096698
CXCL13	0.946583887	0.880071892	1.01812257	0.139729896
OSBPL2	0.82734859	0.643015555	1.064524308	0.140547815
MYO15A	0.670117463	0.39334083	1.141649634	0.1408532
ITGB2-AS1	0.913568109	0.809972292	1.030413878	0.141001298
TRDC	0.89769098	0.777390853	1.036607379	0.141504833
TRAC	0.910777855	0.803990136	1.031749351	0.141900343
AC108134.1	0.873280418	0.728725136	1.046510751	0.142220025
AC083843.3	0.885604677	0.751765631	1.043271483	0.146160787

LTA	0.869178429	0.718998372	1.050727194	0.147425168
IRF1	1.128283179	0.958117031	1.328671644	0.14789195
LNx2	0.867161292	0.713882278	1.053351134	0.150940493
UBA7	0.887147715	0.753207407	1.044906172	0.151590638
IL9R	0.792682168	0.576827621	1.0893116	0.151998348
TALDO1	1.126243995	0.957163032	1.325192777	0.152014527
CCR5	0.903378819	0.785561402	1.03886633	0.154107285
CCDC149	0.837666699	0.656207083	1.069304977	0.155019576
TRBC2	0.915423687	0.81022953	1.034275467	0.155941718
AC090360.1	0.672263798	0.388389846	1.163621086	0.156011417
PSMB9	1.091520099	0.967066774	1.231989516	0.156251328
SH2D2A	1.12527592	0.955800157	1.324801934	0.156433517
FAM174B	0.900307786	0.778257222	1.041498989	0.157681203
SAMSN1	0.909630234	0.79686674	1.038350732	0.160720408
NCF1B	0.878267494	0.731918548	1.053879277	0.162804279
PPP1R12B	0.895305003	0.765839632	1.046656525	0.165214977
TNS2	0.892069196	0.759174187	1.04822775	0.165233555
GOLGA6L9	0.852709974	0.680546054	1.068427766	0.166131527
SFTPD-AS1	0.635584178	0.334422332	1.207955355	0.166570689
CD244	0.862107527	0.697964289	1.06485303	0.168554436
CD8B	0.910833255	0.797292885	1.040542608	0.169161063
ADGRG5	0.883243287	0.73981813	1.054473622	0.169668128
AC006272.1	0.796392353	0.574946753	1.103129597	0.170834523
AL731567.1	0.897654555	0.768407717	1.048640822	0.173453522
PDE2A-AS2	0.828966414	0.631582665	1.088037012	0.176417658
CD3E	0.915655457	0.805703864	1.040611759	0.177002914
BCLAF3	0.839820089	0.65153726	1.082513351	0.177718949
AC009090.3	0.851970228	0.674641484	1.07590963	0.178472238
SRGN	1.088172709	0.9616179	1.231382908	0.180398366
GIMAP4	0.900469624	0.772364818	1.049821956	0.18057452
SLC35B2	1.160809578	0.931945492	1.445877349	0.183219729
EMP3	1.107659396	0.952689908	1.287837027	0.183619417
HAPLN3	1.100906046	0.954862295	1.269286816	0.185539555
NCF1	0.897625695	0.764943842	1.053321624	0.185699374
RHOG	1.201603591	0.915313575	1.577438846	0.185942305
FASLG	0.893976134	0.757136952	1.055546591	0.186098129
LCP2	0.90466847	0.778889193	1.050759272	0.189618615
C3orf35	0.790440732	0.555290282	1.125171051	0.19177804
SOCS1	0.907190008	0.783296561	1.05067959	0.193567428
LINC01871	0.922389951	0.816509959	1.04199981	0.194072629
PRDX3	1.162640298	0.924682762	1.461833742	0.197131999
CST7	0.924461374	0.81983466	1.042440475	0.199947153

SH3BGRL3	1.13837407	0.931972283	1.390487193	0.204181303
AC009806.1	0.778785143	0.528881364	1.146771925	0.205397458
AIF1	0.92077968	0.81016272	1.046499918	0.206256012
PDIA6	1.11955675	0.935544409	1.339762501	0.217685001
IL12RB1	0.893609126	0.74723246	1.068659772	0.217792504
WNT2B	0.808733519	0.576847889	1.13383427	0.218180223
GTF2IRD2	0.800807013	0.56200805	1.141072396	0.21887748
AL031846.1	0.856667594	0.669110879	1.096797839	0.219784716
BMS1P1	0.849171841	0.652054712	1.105877778	0.225059866
AC022893.1	0.808633318	0.573218225	1.140731077	0.226301507
FRY	0.892362383	0.741615464	1.073751373	0.227720529
PARM1-AS1	0.720349652	0.420931818	1.232749816	0.231453619
PSMB10	1.114276167	0.932925015	1.330880143	0.232519399
POU5F1P3	0.838012405	0.626512165	1.12091166	0.23372159
LINC02694	0.572607116	0.228256853	1.436447165	0.234768551
AC091564.1	0.817251709	0.585413097	1.140904364	0.235797257
GFI1	0.892815916	0.74012123	1.077013101	0.236134602
HSPE1P18	0.882970999	0.718520812	1.085059433	0.23656063
COTL1	1.096055554	0.939755451	1.278351486	0.242641951
SLA2	0.898347884	0.750336822	1.075555534	0.243203797
AKAP5	1.133404662	0.917788778	1.39967513	0.244773314
AC004148.1	0.914876336	0.787341028	1.063070106	0.24544434
AL513327.2	0.875195781	0.698382213	1.096774289	0.246973374
RERE-AS1	0.849194384	0.643694444	1.120300337	0.247527946
HID1	0.912086381	0.780320508	1.0661024	0.247716849
GPRC5C	0.93958133	0.845288212	1.04439298	0.248099386
TRBV9	0.90402199	0.761370073	1.073401474	0.24949878
CD7	1.079782118	0.945583324	1.233026633	0.256954535
PLA2G2D	0.950179724	0.868342877	1.039729273	0.266087858
SLAMF7	0.938726771	0.839195411	1.050062881	0.268847455
AC090181.3	0.884130049	0.710582088	1.100064239	0.269343075
MSC	1.08186041	0.940330689	1.244691851	0.27137007
CD86	0.926862019	0.809238576	1.061582118	0.272688123
AL158071.4	0.678482243	0.337169308	1.365302663	0.27693935
PPIAP53	0.910678755	0.768723718	1.078847675	0.27917389
NAXE	1.118517752	0.912617161	1.37087271	0.280567249
RN7SKP23	0.796852417	0.52734377	1.204098371	0.280965203
TPTE2P5	0.861238964	0.655684103	1.131234613	0.282964594
AL049552.1	0.908145608	0.76119711	1.083462399	0.284682162
SORBS1	0.919259363	0.787526862	1.073027243	0.286060411
CARD8	0.868879591	0.667170852	1.131571833	0.297023423
ABI3	0.915558041	0.773814023	1.083266134	0.303952222

IRF9	0.920424376	0.784513288	1.079881047	0.309053316
C19orf38	0.909484085	0.757317142	1.092225773	0.309805969
IL2RG	0.936096433	0.823922309	1.063542669	0.310581021
LIMD2	0.92476885	0.79422737	1.076766502	0.313769327
MDM4	0.898355183	0.729000119	1.107053365	0.314546613
TRAV26-2	0.897765057	0.72675697	1.109011858	0.317173775
AC007390.1	0.837978138	0.590884782	1.188399804	0.321373991
KMT5AP3	0.743033106	0.411626513	1.341260048	0.32431375
RIOK1	1.125806393	0.888844752	1.425940841	0.325731824
CORO2B	0.91223492	0.759182467	1.096143003	0.326936788
SIRPG	0.928469239	0.80031994	1.077138134	0.327386981
APOL6	1.09286594	0.914754345	1.305657599	0.327901001
CDX1	1.163467863	0.858728144	1.576351582	0.32852706
CR1L	0.80775963	0.525941834	1.240585133	0.32945954
TIGIT	0.926681398	0.793832714	1.081762441	0.334800271
CXCL11	1.045070808	0.954823953	1.143847503	0.338707962
MAMDC2-AS1	0.777004274	0.456364713	1.322923585	0.3527462
USP39	1.147695832	0.856070097	1.538665732	0.357054587
TRBJ2-3	0.951375775	0.85556743	1.057912952	0.357356181
CALHM6	1.051548181	0.944654858	1.170537121	0.358102057
FCGR1B	0.880822206	0.6714379	1.155501885	0.359503389
TRAV16	0.919537423	0.767413586	1.101816657	0.363283893
GZMA	0.949643644	0.848736855	1.062547295	0.367341469
AC022613.3	0.823112563	0.53881631	1.257412366	0.367888314
TRAV12-3	0.93122652	0.794435563	1.091571012	0.379382691
CD274	1.050537925	0.940497293	1.173453597	0.382493796
CD8A	0.948653292	0.841009188	1.070075191	0.391006219
AL365330.1	0.927127689	0.779062687	1.10333323	0.394051892
CCL4L2	0.948022948	0.838364036	1.072025363	0.394742781
CYP2F2P	0.857625239	0.601572776	1.22266346	0.395952005
TYROBP	0.950216583	0.844502575	1.069163768	0.3961015
TRAV29DV5	0.920859653	0.760862404	1.114501777	0.397170001
ATP6V0A1	0.91348666	0.74069547	1.126586987	0.397654683
ENDOUB	0.784732088	0.447193871	1.377041344	0.398175684
EBI3	1.064753227	0.918506722	1.234285399	0.405229894
B2M	1.072923578	0.906047844	1.270534456	0.414461833
CXCR3	0.946799864	0.829445277	1.080758439	0.418119856
CD40	0.949242111	0.836454403	1.077238141	0.419583124
IL2RB	0.947016603	0.829036422	1.081786546	0.42259789
HCST	0.943240771	0.817045548	1.088927239	0.425218756
AL512306.2	0.895783863	0.682033982	1.176523092	0.428807296
ANKRD10	0.918414591	0.743297283	1.134788704	0.430415351

GZMH	0.953660886	0.847480786	1.073144195	0.430799896
MEF2C-AS1	0.8208253	0.494081254	1.363650549	0.445841346
HAVCR2	0.952020315	0.83670745	1.083225302	0.455425021
AC095057.3	0.932469015	0.775378417	1.12138595	0.457589118
TYMP	1.061601771	0.906658415	1.243024166	0.457702252
AKAP13	0.939857744	0.796800638	1.108599236	0.461587268
TACC2	1.04512655	0.92844451	1.176472578	0.464928086
C1orf54	0.925019928	0.749887904	1.141053032	0.466734502
SRRM2	1.062144339	0.901454076	1.251478724	0.471299956
AD000864.1	0.884195781	0.63150062	1.238006987	0.473560245
TRAV13-2	0.931497395	0.766431276	1.132113765	0.475803693
HCP5	1.04899604	0.919648205	1.196536551	0.476208189
TRGV10	0.940237342	0.790927221	1.117734017	0.484901888
AC135050.5	0.940358992	0.790360023	1.118825608	0.487947057
AC067750.1	0.853105004	0.539119617	1.349956718	0.497468047
AP000238.1	0.911064884	0.695461558	1.193508418	0.499023304
SLC2A5	1.048586115	0.912253553	1.205293021	0.504376814
LAPTM5	0.958106931	0.843238679	1.088622846	0.51131504
CD72	0.943432757	0.792826079	1.122648953	0.511688176
PLEKHO1	0.943644545	0.791817929	1.124583059	0.516917785
CD300A	0.952970754	0.823547843	1.102732847	0.517739393
CXCR2P1	0.954620606	0.828344116	1.10014725	0.521180404
POPDC2	0.910542515	0.683222465	1.213495918	0.522497315
NR2C2	0.934829375	0.760376133	1.149307458	0.522512859
CAPN8	0.974029124	0.898360669	1.056071093	0.523635917
RAB33A	0.934295816	0.75763098	1.152155462	0.525087678
HLA-C	1.049854221	0.902322458	1.221507761	0.528906302
TNFRSF9	1.049574771	0.902490572	1.220630148	0.529933327
AC093158.1	0.782037817	0.351771947	1.738578508	0.546414889
FAM117B	0.932372941	0.740069793	1.174645024	0.552412896
PRKAR1B-AS1	0.946289144	0.787781078	1.136690343	0.555042704
TMIGD2	0.933177021	0.741617376	1.17421649	0.555212381
ATP6V1F	1.074994358	0.842901508	1.370993954	0.560064889
ZNF683	0.964604738	0.852085771	1.091981973	0.569043338
ETV7	1.042543118	0.902880868	1.203809043	0.570205341
HLA-B	1.039245485	0.907790784	1.189735783	0.576910673
IL411	1.03033277	0.923997619	1.148905142	0.590803648
AC036103.1	0.917868002	0.664372208	1.268086862	0.603273891
OR211P	1.022768487	0.938959013	1.114058614	0.605783161
CASP5	1.065349346	0.837132249	1.35578247	0.606793584
CLEC2B	0.966090465	0.843846443	1.106043397	0.61722615
LILRB4	0.97083022	0.863944342	1.090939856	0.618884126

CCL5	0.972642838	0.869411184	1.088131955	0.628000252
TNFSF13B	1.033094345	0.90401901	1.180598985	0.632554148
AC004585.1	1.037930505	0.890944911	1.209165371	0.632762793
FCER1G	0.970283331	0.857290449	1.098168939	0.632968048
ZBED2	1.031972715	0.906022181	1.175432243	0.63557206
RAC2	1.035536082	0.894592882	1.198684897	0.639934388
IDO1	0.980109122	0.899102469	1.06841425	0.64805123
LINC02446	1.025915595	0.917394726	1.147273663	0.653773005
IL27	1.0817307	0.766615476	1.526373188	0.654743579
LINC02528	1.052538979	0.84058036	1.317944546	0.655374207
C11orf49	1.052962289	0.836885222	1.324828726	0.659649076
SLC44A3	0.964491826	0.817896087	1.137362677	0.667336943
AL390066.1	0.93929125	0.701445614	1.257785402	0.674186813
LINC00158	0.837654159	0.364549743	1.924742789	0.676425564
IL18BP	1.037073082	0.873628547	1.231095963	0.677399775
PDE1B	0.950751799	0.748269759	1.208025544	0.679382035
AL450306.1	0.919724588	0.611227435	1.383925639	0.688129846
CNNM3	1.046622617	0.836979663	1.30877601	0.689476504
APOL4	1.029303106	0.892670308	1.186849024	0.691020999
USP30-AS1	0.970529751	0.834343296	1.128945365	0.698190495
CLEC4E	1.026792636	0.897285166	1.174992252	0.700703772
AC009093.6	0.948966044	0.723489359	1.244712919	0.70509985
CXCL10	1.015802344	0.933922969	1.10486029	0.714620992
GBP4	1.02305459	0.904712573	1.156876477	0.716305513
LINC01094	0.972673443	0.8365795	1.130907016	0.718634771
EBAG9P1	0.954558335	0.736074428	1.237893316	0.725819098
SIGLEC10	0.977128843	0.856606559	1.114608294	0.730485683
AC006042.1	1.02363382	0.896115892	1.16929764	0.730760016
MMP25	1.033366798	0.853032465	1.2518245	0.737294371
HLA-A	1.025771913	0.883481933	1.190978534	0.738400142
IL1B	0.979734576	0.867907052	1.105970779	0.740574307
KCNJ10	0.966031443	0.7846596	1.189326873	0.744629323
LILRA5	0.97697109	0.84850553	1.124886611	0.746013215
PLAAT4	0.983499654	0.88784495	1.089460011	0.749950816
TNFRSF8	1.039127232	0.81599172	1.323279854	0.755652917
SLC31A2	0.967910935	0.787156816	1.190171463	0.757135928
FCGR1A	0.977866592	0.847873643	1.127789595	0.758432601
IL15	0.966115217	0.775369059	1.20378625	0.7587
APOL3	1.023546264	0.880728751	1.189522829	0.76148232
HSD11B1	0.980102758	0.86014551	1.116789434	0.762866888
APOBEC3G	0.977666565	0.842210397	1.134908707	0.76659603
IL2RA	0.981256211	0.864550939	1.113715466	0.769611714

GBP5	0.983563445	0.879205206	1.100308601	0.772121565
CARD17	1.027106316	0.855115894	1.233689364	0.77485017
SLC9C1	1.048416527	0.750025717	1.465519368	0.782023794
AIM2	1.011975458	0.928368043	1.103112429	0.786718011
GAS8-AS1	0.973214043	0.798563284	1.186062011	0.787890829
SOCAR	0.963034024	0.730732699	1.269184385	0.789128604
CD14	0.983222708	0.867516383	1.114361541	0.791110851
HIBCH	1.03437484	0.805178245	1.328812987	0.791434503
GZMB	1.013897187	0.914597778	1.123977699	0.792981234
IFNG	1.018332231	0.88623957	1.170113104	0.79773972
CXCL9	0.990100559	0.916498614	1.069613311	0.800708446
ITGA10	1.021626801	0.86439962	1.207452312	0.801861793
KCNK13	0.978278045	0.821169264	1.165445391	0.805781528
SLC2A6	0.979605428	0.829552538	1.156800504	0.808080618
NCR1	1.037163441	0.769143638	1.398578823	0.810936926
LINC02195	0.984069036	0.861342149	1.124282458	0.813203722
AC018690.1	1.028988151	0.805748235	1.314078726	0.818857469
KLRD1	0.969376824	0.741491046	1.267299763	0.820061856
CARD16	0.98166623	0.836039168	1.152659615	0.821313515
KLHDC7B	0.985824899	0.870430648	1.116517133	0.822160002
LILRB2	0.984274872	0.854821216	1.13333292	0.825635026
C1QC	1.012067801	0.908215602	1.12779524	0.828089632
AL591895.1	0.984204932	0.848778148	1.141239733	0.833049617
UBD	1.008920444	0.926197163	1.099032154	0.838771657
LINC01943	0.978654411	0.793765768	1.206608417	0.83994382
LNX1	1.019998351	0.838296689	1.241084034	0.843185465
SLAMF8	0.988583115	0.873387952	1.118971898	0.855855757
FCGR3A	1.010023255	0.904134513	1.128313278	0.859901457
SREK1	0.977862923	0.761487383	1.25572126	0.860738633
CCL4	0.988813353	0.871795049	1.121538655	0.861032727
CCL3	0.989210414	0.875233963	1.118029332	0.862110974
AC008537.2	1.016829763	0.838917111	1.232473093	0.864950403
CLEC6A	0.978464695	0.757738525	1.263487506	0.867442063
PRF1	0.990317868	0.872885053	1.123549403	0.879915985
GPR84	0.989912732	0.863782787	1.134460228	0.884083937
BCL2A1	0.991574934	0.875178259	1.123452097	0.8943487
ACOD1	1.030943127	0.652892734	1.627899462	0.895974344
C1QB	1.007006582	0.906603291	1.118529202	0.896336362
GBP1P1	1.008708537	0.884953411	1.149770033	0.896695282
KCNC4	0.982383222	0.725827849	1.329622163	0.908368867
LAG3	0.993955353	0.877929512	1.125314995	0.923730785
AC034199.1	1.024977595	0.568690446	1.847365429	0.934581343

NKG7	1.004328346	0.898924732	1.122091083	0.939142147
C1QA	0.995945599	0.892020248	1.111978834	0.942400002
PDCD1LG2	1.004274375	0.879016839	1.147380773	0.949962995
PDCD1	1.003750806	0.875084665	1.151335088	0.957341393
AC010487.1	1.004933242	0.815188108	1.238843908	0.963236508
CCL25	0.995887385	0.813291974	1.219478016	0.968189807
HLA-F	1.001824628	0.878954823	1.141870502	0.978215066
GNLY	0.998867465	0.898516632	1.110425982	0.983263959
AL513477.2	0.998858327	0.833766965	1.196638867	0.990112026
TXK	0.99864944	0.781874046	1.275526039	0.991363556
FZD5	0.999297151	0.845564043	1.180980676	0.993418026
CLEC4D	1.001125965	0.760528481	1.317837822	0.993597623
AC008537.3	1.00029999	0.796456564	1.256314674	0.997941658