

Table S1. Pyroptosis-related genes from database and published literature

AIM2
APIP
BAK1
BAX
CASP1
CASP3
CASP4
CASP5
CASP6
CASP8
CASP9
CHMP2A
CHMP2B
CHMP4A
CHMP4B
CHMP4C
CHMP3
CHMP6
CHMP7
CYCS
DHX9
ELANE
GPX4
GSDMB
GSDMC

GSDMD
GZMB
HMGB1
IL18
IL1A
IL1B
IL6
IRF1
IRF2
NAIP
NLRC4
NLRP1
NLRP2
NLRP3
NLRP6
NLRP7
NLRP9
NOD1
NOD2
PLCG1
PRKACA
PYCARD
SCAF11
TP53
TP63
TREM2

TIRAP
TNF
GZMA
ZBP1

Table S2. Expression diversity of pyroptosis-related genes

ID	logFC	AveExpr	t	P.Value	adj.P.Val	B
IL1B	1.093264333	8.884718375	13.59613225	1.43E-36	6.57E-35	72.15442255
ZBP1	0.998155383	5.735227327	13.54246306	2.48E-36	6.57E-35	71.60761663
CASP3	0.451563593	7.760657355	12.09916811	4.33E-30	7.65E-29	57.33993773
IRF1	0.489458202	7.514940438	11.60576418	4.78E-28	6.34E-27	52.67405983
CHMP2B	-0.394698753	8.186940135	-11.50805466	1.20E-27	1.27E-26	51.7640155
NOD2	-0.448732071	7.16482093	-11.41547642	2.85E-27	2.51E-26	50.90613698
CHMP4C	-0.552444794	7.867333826	-11.1669149	2.85E-26	2.15E-25	48.62426451
GZMB	0.766788375	7.186122648	10.77772463	9.82E-25	6.50E-24	45.11593642
IL18	-0.659236659	8.134149469	-10.35584767	4.16E-23	2.45E-22	41.40564776
AIM2	0.594845939	7.108461794	9.858853565	3.03E-21	1.60E-20	37.16455227
IL6	0.815298956	6.856079973	8.401442813	3.67E-16	1.77E-15	25.60709852
IL1A	0.411300419	7.167036858	8.004151105	7.01E-15	3.10E-14	22.70174952
CYCS	-0.225098173	6.967687605	-7.941403303	1.11E-14	4.51E-14	22.25304947
GSDMC	-0.380194144	8.18064351	-7.878958438	1.74E-14	6.57E-14	21.80931006
IRF2	0.441118498	6.969535174	7.846253086	2.20E-14	7.76E-14	21.5780198
NLRP7	0.357221973	4.448973068	7.678340215	7.26E-14	2.40E-13	20.40273187
NLRP3	0.100003494	3.826389366	7.559369759	1.67E-13	5.21E-13	19.58246097
PYCARD	-0.351681938	8.485971099	-7.470373385	3.10E-13	9.13E-13	18.97567333

GZMA	0.530994571	5.995783088	7.448197687	3.61E-13	1.01E-12	18.82539076
CASP6	-0.279853953	7.351517741	-7.170384234	2.38E-12	6.32E-12	16.97388591
PRKACA	0.184867905	5.945140269	6.535325614	1.43E-10	3.62E-10	12.96378381
GSDMD	0.204015432	7.158637864	6.405177053	3.19E-10	7.69E-10	12.18111825
SCAF11	-0.17501792	7.776686925	-6.274984358	7.02E-10	1.62E-09	11.41179511
BAK1	0.246426943	6.76250081	6.098521308	2.00E-09	4.42E-09	10.39099331
CHMP4B	0.236544531	8.732067571	5.898183203	6.37E-09	1.35E-08	9.263022361
BAX	0.355814128	5.636637876	5.551126359	4.39E-08	8.95E-08	7.388044522
NOD1	0.115036585	6.801653725	5.318123795	1.52E-07	2.98E-07	6.186392229
APIP	-0.132162839	5.342158842	-4.88504006	1.35E-06	2.56E-06	4.077234191
PLCG1	0.092064368	7.059553713	4.860158321	1.53E-06	2.79E-06	3.961032616
GSDMB	0.107022201	5.331340641	4.792971369	2.11E-06	3.73E-06	3.649984787
HMGB1	-0.112029775	10.49026243	-4.649206725	4.16E-06	7.12E-06	2.99783076
CASP8	0.125050178	5.864874499	4.579715819	5.75E-06	9.52E-06	2.689188814
CHMP7	0.109328258	7.174982932	4.044928401	5.97E-05	9.59E-05	0.459322999
NLRP9	-0.125059817	4.595633998	-3.824771775	0.000145654	0.000227048	-0.382935326
DHX9	-0.144718533	7.156178232	-3.594756344	0.000353438	0.000535207	-1.215073759
CASP5	0.068116518	5.058479013	3.520631284	0.000465687	0.000685594	-1.472751404
GPX4	0.14484723	10.17762815	3.269958481	0.001141915	0.001635716	-2.306008831
TIRAP	0.054922132	5.29976763	3.199984465	0.001452403	0.002025721	-2.528045946
CASP1	0.093724748	8.30379802	3.046162308	0.002427303	0.003298643	-2.999849185
NLRC4	0.050623796	3.98937867	3.038157401	0.002491628	0.003301407	-3.023787035
CASP9	0.044312033	5.931721889	3.006026865	0.002765862	0.003575383	-3.119256762
NLRP6	0.069716466	4.03207328	2.884400477	0.004072976	0.005139708	-3.471736565
CHMP6	-0.073655375	6.686033002	-2.510872725	0.012324778	0.015191006	-4.465645515
ELANE	0.051284806	4.458036235	2.43886544	0.015044018	0.018121203	-4.641795414

CASP4	-0.082211543	7.086383147	-2.280957765	0.022926848	0.027002732	-5.01049949
TP63	-0.119790614	7.214297709	-2.16599317	0.030734323	0.035411285	-5.263697813
NLRP1	-0.060098184	6.43197677	-2.153882686	0.031676767	0.035720609	-5.289620797
CHMP2A	-0.13188881	9.624202837	-2.145007535	0.032383118	0.035756359	-5.308527652
NAIP	0.084937848	5.737104632	2.0624792	0.039624228	0.042858858	-5.480659869
TREM2	0.083858311	6.100085452	2.029804086	0.042850226	0.045421239	-5.54697387
TP53	-0.037683517	6.604711138	-0.71640703	0.474039659	0.49262945	-7.341724629
TNF	0.017000249	5.246058086	0.625801786	0.531700737	0.541925751	-7.402439697
NLRP2	0.009323966	4.515350461	0.189969794	0.84940186	0.84940186	-7.580020784

Table S3. Correlations between pyroptosis-related genes in all samples

Gene1	Gene2	cor	pvalue
AIM2	APIP	-0.170338315	5.33E-05
AIM2	BAX	0.114030767	0.00706067
AIM2	CASP1	0.544084291	3.08E-44
AIM2	CASP3	0.622563033	4.36E-61
AIM2	CASP4	0.217408933	2.20E-07
AIM2	CASP5	0.221094292	1.35E-07
AIM2	CASP6	-0.165531421	8.67E-05
AIM2	CASP8	0.327231976	2.28E-15
AIM2	CASP9	0.107695276	0.010978236
AIM2	CHMP2B	-0.303826924	2.33E-13
AIM2	CHMP4C	-0.381647872	9.37E-21
AIM2	CHMP6	-0.284785581	7.47E-12
AIM2	CHMP7	0.171341444	4.81E-05
AIM2	CYCS	-0.203421884	1.29E-06

AIM2	DHX9	-0.172412841	4.30E-05
AIM2	GSDMB	0.274989042	4.03E-11
AIM2	GSDMC	-0.378447039	2.08E-20
AIM2	GSDMD	0.3279171	1.98E-15
AIM2	GZMB	0.585529555	1.46E-52
AIM2	IL18	-0.345903329	4.24E-17
AIM2	IL1A	0.455010338	8.16E-30
AIM2	IL1B	0.531829412	5.43E-42
AIM2	IL6	0.370524678	1.44E-19
AIM2	IRF1	0.592920631	3.55E-54
AIM2	NAIP	0.288581638	3.82E-12
AIM2	NLRC4	0.21131082	4.83E-07
AIM2	NLRP1	-0.253653317	1.26E-09
AIM2	NLRP3	0.402439067	4.24E-23
AIM2	NLRP6	0.112338344	0.007960778
AIM2	NLRP7	0.303603812	2.43E-13
AIM2	NLRP9	-0.145573689	0.000568278
AIM2	NOD2	-0.296682625	8.82E-13
AIM2	PYCARD	-0.341841126	1.03E-16
AIM2	TP53	-0.415591249	1.14E-24
AIM2	TP63	-0.383532397	5.83E-21
AIM2	GZMA	0.520678682	5.02E-40
AIM2	ZBP1	0.512410108	1.29E-38
APIP	BAK1	-0.37725813	2.79E-20
APIP	BAX	0.094279422	0.02607898
APIP	CASP1	0.142710609	0.000730604

APIP	CASP4	0.379691906	1.53E-20
APIP	CASP5	0.084178605	0.047061208
APIP	CASP6	0.224940011	8.06E-08
APIP	CHMP2A	0.189952138	6.36E-06
APIP	CHMP2B	0.476380591	6.74E-33
APIP	CHMP4C	0.392213982	6.33E-22
APIP	CHMP6	-0.197805992	2.55E-06
APIP	CHMP7	-0.188919691	7.15E-06
APIP	CYCS	0.295180312	1.16E-12
APIP	DHX9	0.156786819	0.000203213
APIP	ELANE	0.106832123	0.01163954
APIP	GPX4	-0.382985761	6.70E-21
APIP	GSDMB	0.190578086	5.92E-06
APIP	GSDMC	0.109619425	0.009622548
APIP	GSDMD	-0.299178878	5.56E-13
APIP	GZMB	-0.283307908	9.67E-12
APIP	HMGB1	0.218492851	1.91E-07
APIP	IL18	0.256783093	7.74E-10
APIP	IL1B	-0.373270297	7.41E-20
APIP	IL6	-0.146149975	0.000539954
APIP	IRF1	-0.241090706	8.29E-09
APIP	NAIP	0.193646135	4.15E-06
APIP	NLRC4	0.096943214	0.022126231
APIP	NLRP1	-0.313205238	3.83E-14
APIP	NLRP3	-0.243760641	5.60E-09
APIP	NLRP6	-0.30244722	3.02E-13

APIP	NLRP9	-0.219547769	1.66E-07
APIP	NOD1	-0.495437524	7.75E-36
APIP	NOD2	0.436934082	2.26E-27
APIP	PLCG1	-0.475018625	1.08E-32
APIP	PRKACA	-0.289623316	3.17E-12
APIP	SCAF11	0.244596864	4.95E-09
APIP	TREM2	-0.424268449	9.58E-26
APIP	TNF	-0.266232927	1.72E-10
APIP	GZMA	0.165802427	8.44E-05
APIP	ZBP1	-0.281748693	1.27E-11
BAK1	BAX	0.275208198	3.88E-11
BAK1	CASP1	-0.22425679	8.84E-08
BAK1	CASP4	-0.281387276	1.35E-11
BAK1	CASP6	-0.463806142	4.67E-31
BAK1	CASP8	-0.143136165	0.000704026
BAK1	CHMP2A	-0.135540002	0.00134369
BAK1	CHMP2B	-0.527011392	3.92E-41
BAK1	CHMP4B	0.168091656	6.70E-05
BAK1	CHMP4C	-0.428622021	2.69E-26
BAK1	CHMP6	0.427205635	4.08E-26
BAK1	CHMP7	0.175878571	2.99E-05
BAK1	CYCS	-0.095190267	0.024663835
BAK1	DHX9	-0.093078585	0.028051249
BAK1	ELANE	0.232093428	3.01E-08
BAK1	GPX4	0.393495312	4.53E-22
BAK1	GSDMC	-0.189592698	6.62E-06

BAK1	GSDMD	0.220398148	1.48E-07
BAK1	GZMB	0.156618064	0.000206491
BAK1	HMGB1	-0.488119226	1.10E-34
BAK1	IL18	-0.360972638	1.39E-18
BAK1	IL1B	0.237259513	1.44E-08
BAK1	IL6	0.155089499	0.000238525
BAK1	IRF1	0.269348321	1.03E-10
BAK1	IRF2	0.28129724	1.37E-11
BAK1	NAIP	-0.208887227	6.56E-07
BAK1	NLRP3	0.217116982	2.29E-07
BAK1	NLRP6	0.196194764	3.08E-06
BAK1	NLRP7	0.133695835	0.001564449
BAK1	NLRP9	-0.086742141	0.040712355
BAK1	NOD1	0.142605674	0.000737299
BAK1	PLCG1	0.293733699	1.51E-12
BAK1	PRKACA	0.500589912	1.15E-36
BAK1	PYCARD	0.192520753	4.73E-06
BAK1	SCAF11	-0.386610466	2.67E-21
BAK1	TP53	0.379464197	1.62E-20
BAK1	TP63	0.103779416	0.014269778
BAK1	TREM2	0.189551879	6.65E-06
BAK1	TIRAP	0.124104969	0.003348919
BAK1	TNF	0.132404248	0.001738385
BAK1	GZMA	-0.130446829	0.002035995
BAK1	ZBP1	0.364030506	6.77E-19
BAX	CASP1	0.088356619	0.03709789

BAX	CASP3	0.22986165	4.10E-08
BAX	CASP4	0.22432048	8.77E-08
BAX	CASP6	-0.527543227	3.16E-41
BAX	CASP8	-0.32003291	9.90E-15
BAX	CASP9	0.229402426	4.37E-08
BAX	CHMP2A	0.367941505	2.68E-19
BAX	CHMP2B	-0.421222342	2.30E-25
BAX	CHMP4B	0.722252652	6.31E-91
BAX	CHMP4C	-0.334201291	5.32E-16
BAX	CHMP6	0.311639552	5.20E-14
BAX	CHMP7	0.176016608	2.95E-05
BAX	CYCS	-0.174090624	3.61E-05
BAX	DHX9	0.187967071	7.97E-06
BAX	ELANE	0.547841563	6.05E-45
BAX	GPX4	0.261337712	3.77E-10
BAX	GSDMB	0.389939214	1.14E-21
BAX	GSDMC	-0.179689731	1.99E-05
BAX	GSDMD	0.373831232	6.47E-20
BAX	GZMB	0.164791482	9.34E-05
BAX	HMGB1	-0.510094796	3.16E-38
BAX	IL18	-0.503730635	3.56E-37
BAX	IL1A	0.111784328	0.008276947
BAX	IL1B	0.236139703	1.70E-08
BAX	IL6	0.222206924	1.17E-07
BAX	IRF1	0.317181069	1.75E-14
BAX	IRF2	0.166647753	7.75E-05

BAX	NAIP	0.153348108	0.000280665
BAX	NLRC4	0.386791848	2.55E-21
BAX	NLRP1	-0.482091574	9.27E-34
BAX	NLRP3	0.184793215	1.14E-05
BAX	NLRP6	0.157734885	0.000185684
BAX	NLRP7	0.569840523	2.85E-49
BAX	NLRP9	-0.648367353	9.75E-68
BAX	NOD1	-0.189152946	6.96E-06
BAX	NOD2	0.086954857	0.040219726
BAX	PLCG1	0.188962085	7.12E-06
BAX	PRKACA	0.262467151	3.15E-10
BAX	PYCARD	0.205144017	1.05E-06
BAX	SCAF11	-0.208256295	7.11E-07
BAX	TP53	0.184875068	1.13E-05
BAX	TREM2	-0.372051031	9.97E-20
BAX	TIRAP	-0.246482877	3.74E-09
BAX	TNF	-0.162853501	0.000113087
BAX	GZMA	0.254923859	1.03E-09
BAX	ZBP1	0.505986301	1.52E-37
CASP1	CASP3	0.407912243	9.60E-24
CASP1	CASP4	0.399302285	9.81E-23
CASP1	CASP5	0.264256226	2.36E-10
CASP1	CASP6	0.140490815	0.000884955
CASP1	CASP8	0.413711452	1.93E-24
CASP1	CASP9	0.158688517	0.000169489
CASP1	CHMP2A	0.10698854	0.011517149

CASP1	CHMP4C	-0.089880371	0.033940193
CASP1	CHMP6	-0.397909715	1.42E-22
CASP1	CHMP7	-0.172820378	4.12E-05
CASP1	CYCS	-0.096381197	0.022913964
CASP1	DHX9	0.126160163	0.002856957
CASP1	ELANE	-0.128851947	0.002312192
CASP1	GPX4	-0.189733438	6.52E-06
CASP1	GSDMB	0.146238247	0.000535733
CASP1	GZMB	0.301658313	3.50E-13
CASP1	HMGB1	0.221233781	1.33E-07
CASP1	IL18	0.095967138	0.023509755
CASP1	IL1A	0.323711917	4.70E-15
CASP1	IL1B	0.258052949	6.35E-10
CASP1	IL6	0.102431779	0.015588497
CASP1	IRF1	0.2344076	2.17E-08
CASP1	IRF2	-0.113547046	0.007308145
CASP1	NAIP	0.323787082	4.63E-15
CASP1	NLRP1	-0.205803338	9.64E-07
CASP1	NLRP2	0.148529718	0.000436324
CASP1	NLRP3	0.107982224	0.010765885
CASP1	NLRP7	0.088627453	0.036519062
CASP1	NOD2	-0.116711376	0.005820432
CASP1	PLCG1	-0.152788541	0.00029562
CASP1	PRKACA	-0.289035341	3.52E-12
CASP1	PYCARD	-0.262215716	3.28E-10
CASP1	SCAF11	0.228267282	5.11E-08

CASP1	TP53	-0.38784232	1.95E-21
CASP1	TREM2	-0.09111884	0.031545307
CASP1	TNF	-0.091558093	0.030731359
CASP1	GZMA	0.511325887	1.97E-38
CASP1	ZBP1	0.15431122	0.000256569
CASP3	CASP4	0.207791038	7.53E-07
CASP3	CASP5	0.2298748	4.10E-08
CASP3	CASP6	-0.264528562	2.26E-10
CASP3	CASP8	0.334690667	4.80E-16
CASP3	CASP9	0.229110877	4.55E-08
CASP3	CHMP2B	-0.310216372	6.86E-14
CASP3	CHMP4B	0.195891243	3.19E-06
CASP3	CHMP4C	-0.350772004	1.43E-17
CASP3	CHMP6	-0.270637421	8.33E-11
CASP3	CHMP7	0.144469602	0.000626436
CASP3	CYCS	-0.146676803	0.000515213
CASP3	DHX9	-0.155811751	0.000222849
CASP3	ELANE	0.091932383	0.030052046
CASP3	GPX4	-0.09656418	0.022654867
CASP3	GSDMB	0.369432953	1.87E-19
CASP3	GSDMC	-0.304934291	1.89E-13
CASP3	GSDMD	0.228454381	4.98E-08
CASP3	GZMB	0.344062674	6.35E-17
CASP3	IL18	-0.420513838	2.82E-25
CASP3	IL1A	0.410369471	4.88E-24
CASP3	IL1B	0.486094436	2.26E-34

CASP3	IL6	0.377773258	2.46E-20
CASP3	IRF1	0.466689788	1.79E-31
CASP3	IRF2	0.177794531	2.44E-05
CASP3	NAIP	0.243932343	5.46E-09
CASP3	NLRC4	0.27374586	4.96E-11
CASP3	NLRP1	-0.461722899	9.26E-31
CASP3	NLRP3	0.380573559	1.23E-20
CASP3	NLRP6	0.130014401	0.002107733
CASP3	NLRP7	0.453966995	1.14E-29
CASP3	NLRP9	-0.224823938	8.19E-08
CASP3	NOD1	-0.144493366	0.000625128
CASP3	NOD2	-0.233577675	2.44E-08
CASP3	PLCG1	-0.087690056	0.038555736
CASP3	PYCARD	-0.468608262	9.44E-32
CASP3	SCAF11	-0.17949138	2.03E-05
CASP3	TP53	-0.377388916	2.70E-20
CASP3	TP63	-0.322605955	5.89E-15
CASP3	GZMA	0.383032059	6.62E-21
CASP3	ZBP1	0.596004649	7.32E-55
CASP4	CASP8	-0.122501147	0.003784964
CASP4	CASP9	0.183268833	1.35E-05
CASP4	CHMP2A	0.415166495	1.28E-24
CASP4	CHMP2B	0.249735628	2.29E-09
CASP4	CHMP4B	0.131951246	0.001803475
CASP4	CHMP4C	0.14897874	0.000418978
CASP4	CHMP6	-0.166326164	8.01E-05

CASP4	CHMP7	0.103861269	0.014192941
CASP4	ELANE	0.091408833	0.031005901
CASP4	GPX4	-0.263611095	2.62E-10
CASP4	GSDMB	0.158263002	0.000176544
CASP4	GZMB	0.109521753	0.0096876
CASP4	IL1A	0.192191062	4.92E-06
CASP4	IL6	0.088634297	0.036504535
CASP4	NAIP	0.20227326	1.49E-06
CASP4	NLRC4	0.289652201	3.15E-12
CASP4	NLRP1	-0.465902306	2.33E-31
CASP4	NLRP3	-0.114117174	0.007017263
CASP4	NLRP7	0.212844158	3.97E-07
CASP4	NLRP9	-0.326018166	2.93E-15
CASP4	NOD1	-0.307936961	1.06E-13
CASP4	NOD2	0.180179958	1.89E-05
CASP4	PLCG1	-0.292223028	1.99E-12
CASP4	PRKACA	-0.185600171	1.04E-05
CASP4	PYCARD	-0.104532479	0.013576474
CASP4	SCAF11	0.202809791	1.39E-06
CASP4	TP53	-0.337201714	2.81E-16
CASP4	TP63	-0.154008319	0.00026393
CASP4	TREM2	-0.524365827	1.14E-40
CASP4	TIRAP	-0.401252683	5.83E-23
CASP4	TNF	-0.095512843	0.024178821
CASP4	GZMA	0.243619375	5.72E-09
CASP5	CASP6	0.083148826	0.049835671

CASP5	CASP8	0.202321797	1.48E-06
CASP5	CHMP2A	-0.126089782	0.002872653
CASP5	CHMP4C	-0.207910069	7.42E-07
CASP5	CHMP6	-0.174509071	3.46E-05
CASP5	GPX4	-0.121355921	0.004127151
CASP5	GSDMB	0.161944428	0.000123633
CASP5	GSDMC	-0.09401477	0.026503064
CASP5	GSDMD	0.132924488	0.001666296
CASP5	GZMB	0.185462516	1.06E-05
CASP5	IL1A	0.239729053	1.01E-08
CASP5	IL1B	0.209771977	5.87E-07
CASP5	IL6	0.119003908	0.004919114
CASP5	IRF1	0.158934388	0.000165534
CASP5	NAIP	0.192375348	4.81E-06
CASP5	NLRC4	0.093708571	0.027001126
CASP5	NOD2	-0.108326788	0.010515715
CASP5	PLCG1	-0.18139013	1.65E-05
CASP5	PYCARD	-0.137824258	0.001110054
CASP5	TP53	-0.215403856	2.86E-07
CASP5	TP63	-0.146839542	0.000507786
CASP5	TREM2	0.093536057	0.027285268
CASP5	TIRAP	0.181031501	1.72E-05
CASP5	GZMA	0.210334459	5.47E-07
CASP5	ZBP1	0.14477891	0.000609609
CASP6	CASP8	0.217637761	2.13E-07
CASP6	CHMP2B	0.544614005	2.45E-44

CASP6	CHMP4B	-0.449426677	4.81E-29
CASP6	CHMP4C	0.469517492	6.96E-32
CASP6	CHMP6	-0.351899246	1.11E-17
CASP6	CHMP7	-0.391667841	7.29E-22
CASP6	CYCS	0.340202169	1.47E-16
CASP6	ELANE	-0.421280478	2.26E-25
CASP6	GPX4	-0.338641518	2.06E-16
CASP6	GSDMB	-0.100633827	0.017513716
CASP6	GSDMC	0.315821164	2.29E-14
CASP6	GSDMD	-0.387597319	2.08E-21
CASP6	GZMB	-0.193395623	4.28E-06
CASP6	HMGB1	0.663220201	7.23E-72
CASP6	IL18	0.675848864	1.43E-75
CASP6	IL1B	-0.37241286	9.13E-20
CASP6	IL6	-0.345273813	4.87E-17
CASP6	IRF1	-0.46917823	7.80E-32
CASP6	IRF2	-0.363413647	7.83E-19
CASP6	NLRC4	-0.363255341	8.13E-19
CASP6	NLRP1	0.299184843	5.56E-13
CASP6	NLRP3	-0.349928333	1.73E-17
CASP6	NLRP6	-0.272097117	6.54E-11
CASP6	NLRP7	-0.426661933	4.78E-26
CASP6	NLRP9	0.390557947	9.71E-22
CASP6	NOD1	-0.122800017	0.0037
CASP6	PLCG1	-0.29708696	8.19E-13
CASP6	PRKACA	-0.515330619	4.14E-39

CASP6	SCAF11	0.576077692	1.47E-50
CASP6	TP53	-0.277623468	2.58E-11
CASP6	TREM2	0.088919932	0.035902612
CASP6	TNF	-0.105982884	0.01232434
CASP6	GZMA	-0.158964985	0.000165048
CASP6	ZBP1	-0.576405045	1.26E-50
CASP8	CHMP2A	-0.370532165	1.44E-19
CASP8	CHMP4B	-0.183472088	1.32E-05
CASP8	CHMP6	-0.400758285	6.65E-23
CASP8	CHMP7	-0.290487578	2.72E-12
CASP8	CYCS	0.091669897	0.030527076
CASP8	DHX9	0.134100979	0.001513275
CASP8	ELANE	-0.35549713	4.91E-18
CASP8	GPX4	-0.276512996	3.11E-11
CASP8	GSDMD	-0.292802333	1.79E-12
CASP8	GZMB	0.25096381	1.90E-09
CASP8	HMGB1	0.446130071	1.35E-28
CASP8	IL18	0.08954635	0.034612049
CASP8	IL1A	0.227173506	5.94E-08
CASP8	IL1B	0.185255475	1.08E-05
CASP8	IL6	0.097426183	0.021468168
CASP8	IRF1	0.090285791	0.033139692
CASP8	IRF2	-0.093849194	0.026771397
CASP8	NAIP	0.162864546	0.000112964
CASP8	NLRC4	-0.210602241	5.29E-07
CASP8	NLRP1	0.189512757	6.68E-06

CASP8	NLRP3	0.132932647	0.001665188
CASP8	NLRP7	-0.203675327	1.25E-06
CASP8	NLRP9	0.390093298	1.10E-21
CASP8	NOD1	0.166252206	8.07E-05
CASP8	NOD2	-0.256253772	8.41E-10
CASP8	PLCG1	-0.191125337	5.56E-06
CASP8	PRKACA	-0.317929372	1.51E-14
CASP8	PYCARD	-0.426124348	5.59E-26
CASP8	SCAF11	0.147336554	0.000485717
CASP8	TP53	-0.282516367	1.11E-11
CASP8	TP63	0.085148173	0.044568564
CASP8	TREM2	0.383023074	6.63E-21
CASP8	TIRAP	0.367475104	2.99E-19
CASP8	GZMA	0.244604086	4.95E-09
CASP9	CHMP2A	0.211097062	4.97E-07
CASP9	CHMP2B	-0.139882501	0.000932234
CASP9	CHMP4B	0.209523592	6.06E-07
CASP9	CHMP4C	-0.112353461	0.007952305
CASP9	CHMP6	0.086864806	0.040427657
CASP9	CHMP7	0.103302748	0.014724549
CASP9	GPX4	0.094309065	0.026031845
CASP9	GSDMD	0.090100983	0.033502573
CASP9	GZMB	0.188298577	7.67E-06
CASP9	HMGB1	-0.149103002	0.000414293
CASP9	IL1A	0.207968319	7.37E-07
CASP9	IL1B	0.233726963	2.39E-08

CASP9	IL6	0.112668434	0.00777757
CASP9	IRF1	0.121075419	0.004215122
CASP9	NAIP	-0.111193775	0.00862626
CASP9	NLRC4	0.116803664	0.005781458
CASP9	NLRP1	-0.148475898	0.000438447
CASP9	NLRP3	0.127336004	0.002606026
CASP9	NLRP6	0.128417559	0.002393133
CASP9	NLRP7	0.18653236	9.36E-06
CASP9	NLRP9	-0.145312268	0.000581577
CASP9	PYCARD	-0.190737981	5.81E-06
CASP9	SCAF11	-0.091459379	0.030912694
CASP9	TREM2	-0.13121926	0.001913386
CASP9	TIRAP	-0.107565149	0.011075751
CASP9	ZBP1	0.123334607	0.003552326
CHMP2A	CHMP2B	0.104256279	0.013827232
CHMP2A	CHMP4B	0.166375653	7.97E-05
CHMP2A	CHMP4C	0.140996878	0.000847324
CHMP2A	CHMP6	0.094060863	0.026428779
CHMP2A	CHMP7	0.116975898	0.00570935
CHMP2A	ELANE	0.20012687	1.93E-06
CHMP2A	GSDMD	0.152801985	0.000295252
CHMP2A	HMGB1	-0.151874895	0.000321647
CHMP2A	IL1B	-0.100987493	0.017119372
CHMP2A	IL6	-0.124224174	0.003318406
CHMP2A	IRF1	-0.190418975	6.03E-06
CHMP2A	IRF2	-0.335697411	3.87E-16

CHMP2A	NLRC4	0.17716785	2.61E-05
CHMP2A	NLRP1	-0.374088087	6.07E-20
CHMP2A	NLRP3	-0.103730706	0.014315677
CHMP2A	NLRP7	0.27900869	2.03E-11
CHMP2A	NLRP9	-0.400629223	6.89E-23
CHMP2A	NOD1	-0.299097927	5.65E-13
CHMP2A	NOD2	0.13120598	0.001915435
CHMP2A	PRKACA	-0.165034502	9.11E-05
CHMP2A	PYCARD	0.275721693	3.56E-11
CHMP2A	SCAF11	0.093997818	0.02653043
CHMP2A	TP53	-0.201589749	1.62E-06
CHMP2A	TP63	-0.141113346	0.000838875
CHMP2A	TREM2	-0.4262444	5.40E-26
CHMP2A	TIRAP	-0.544719454	2.34E-44
CHMP2A	TNF	-0.156029217	0.000218322
CHMP2B	CHMP4B	-0.33011107	1.26E-15
CHMP2B	CHMP4C	0.668278724	2.50E-73
CHMP2B	CHMP6	-0.264365086	2.32E-10
CHMP2B	CHMP7	-0.212682591	4.06E-07
CHMP2B	CYCS	0.432407694	8.79E-27
CHMP2B	DHX9	0.147698168	0.000470223
CHMP2B	ELANE	-0.345044875	5.12E-17
CHMP2B	GPX4	-0.460418313	1.42E-30
CHMP2B	GSDMB	-0.264061184	2.44E-10
CHMP2B	GSDMC	0.365387983	4.92E-19
CHMP2B	GSDMD	-0.52495173	9.03E-41

CHMP2B	GZMB	-0.356608112	3.80E-18
CHMP2B	HMGB1	0.514210059	6.42E-39
CHMP2B	IL18	0.630796676	3.85E-63
CHMP2B	IL1B	-0.497527383	3.59E-36
CHMP2B	IL6	-0.23142801	3.30E-08
CHMP2B	IRF1	-0.517315479	1.90E-39
CHMP2B	IRF2	-0.271456725	7.27E-11
CHMP2B	NLRC4	-0.158144041	0.000178565
CHMP2B	NLRP3	-0.391962429	6.75E-22
CHMP2B	NLRP6	-0.288354813	3.98E-12
CHMP2B	NLRP7	-0.376798832	3.12E-20
CHMP2B	NLRP9	0.18811832	7.83E-06
CHMP2B	NOD1	-0.242147637	7.11E-09
CHMP2B	NOD2	0.393019117	5.13E-22
CHMP2B	PLCG1	-0.475286301	9.81E-33
CHMP2B	PRKACA	-0.476806588	5.82E-33
CHMP2B	SCAF11	0.477175862	5.12E-33
CHMP2B	TP53	-0.196103921	3.11E-06
CHMP2B	TREM2	-0.236746252	1.55E-08
CHMP2B	TIRAP	-0.192818919	4.57E-06
CHMP2B	GZMA	-0.151257789	0.00034042
CHMP2B	ZBP1	-0.648633371	8.26E-68
CHMP4B	CHMP4C	-0.244578699	4.96E-09
CHMP4B	CHMP6	0.207187941	8.12E-07
CHMP4B	CYCS	-0.188994675	7.09E-06
CHMP4B	DHX9	0.183198057	1.36E-05

CHMP4B	ELANE	0.420574589	2.77E-25
CHMP4B	GPX4	0.1218348	0.003980796
CHMP4B	GSDMB	0.277748684	2.52E-11
CHMP4B	GSDMD	0.224033805	9.11E-08
CHMP4B	HMGB1	-0.399045018	1.05E-22
CHMP4B	IL18	-0.395809823	2.47E-22
CHMP4B	IL1A	0.141128251	0.000837799
CHMP4B	IL1B	0.17972208	1.98E-05
CHMP4B	IL6	0.147655186	0.000472041
CHMP4B	IRF1	0.236078395	1.71E-08
CHMP4B	IRF2	0.167469368	7.14E-05
CHMP4B	NAIP	0.105003727	0.013157876
CHMP4B	NLRC4	0.196624532	2.93E-06
CHMP4B	NLRP1	-0.329307585	1.49E-15
CHMP4B	NLRP6	0.108891184	0.010117066
CHMP4B	NLRP7	0.373781569	6.54E-20
CHMP4B	NLRP9	-0.42575226	6.23E-26
CHMP4B	PLCG1	0.251036722	1.88E-09
CHMP4B	PRKACA	0.253661215	1.26E-09
CHMP4B	SCAF11	-0.210510524	5.35E-07
CHMP4B	TP53	0.148949377	0.000420093
CHMP4B	TREM2	-0.22102481	1.36E-07
CHMP4B	TIRAP	-0.119119046	0.004877361
CHMP4B	TNF	-0.160320344	0.000144812
CHMP4B	GZMA	0.143547028	0.000679217
CHMP4B	ZBP1	0.392993909	5.16E-22

CHMP4C	CHMP6	-0.139446106	0.000967577
CHMP4C	CHMP7	-0.242490795	6.76E-09
CHMP4C	CYCS	0.376734491	3.17E-20
CHMP4C	DHX9	0.104744963	0.013386298
CHMP4C	ELANE	-0.204774101	1.10E-06
CHMP4C	GPX4	-0.355216642	5.23E-18
CHMP4C	GSDMB	-0.285096554	7.07E-12
CHMP4C	GSDMC	0.372774847	8.36E-20
CHMP4C	GSDMD	-0.530224423	1.05E-41
CHMP4C	GZMB	-0.389792506	1.18E-21
CHMP4C	HMGB1	0.349443197	1.93E-17
CHMP4C	IL18	0.585516348	1.47E-52
CHMP4C	IL1A	-0.255370382	9.65E-10
CHMP4C	IL1B	-0.562005068	1.08E-47
CHMP4C	IL6	-0.331090966	1.02E-15
CHMP4C	IRF1	-0.581769476	9.30E-52
CHMP4C	IRF2	-0.19753853	2.63E-06
CHMP4C	NLRC4	-0.145950103	0.000549625
CHMP4C	NLRP3	-0.432332315	8.99E-27
CHMP4C	NLRP6	-0.289899602	3.02E-12
CHMP4C	NLRP7	-0.325241481	3.44E-15
CHMP4C	NLRP9	0.19074483	5.81E-06
CHMP4C	NOD1	-0.195075529	3.51E-06
CHMP4C	NOD2	0.340339429	1.43E-16
CHMP4C	PLCG1	-0.312584664	4.33E-14
CHMP4C	PRKACA	-0.474456954	1.30E-32

CHMP4C	PYCARD	0.129041938	0.002277583
CHMP4C	SCAF11	0.322287006	6.28E-15
CHMP4C	TP63	0.170353124	5.32E-05
CHMP4C	TREM2	-0.147754506	0.000467851
CHMP4C	TIRAP	-0.156600808	0.000206829
CHMP4C	TNF	-0.18711549	8.77E-06
CHMP4C	GZMA	-0.130809639	0.001977537
CHMP4C	ZBP1	-0.66214396	1.47E-71
CHMP6	CHMP7	0.199684591	2.03E-06
CHMP6	CYCS	-0.113608621	0.007276217
CHMP6	ELANE	0.31821211	1.42E-14
CHMP6	GPX4	0.379572336	1.57E-20
CHMP6	GSDMB	-0.125410719	0.003028172
CHMP6	GSDMC	0.113873733	0.007140174
CHMP6	GSDMD	0.276250124	3.25E-11
CHMP6	GZMB	-0.095411744	0.024329935
CHMP6	HMGB1	-0.434351047	4.92E-27
CHMP6	IL18	-0.217249227	2.25E-07
CHMP6	IL1A	-0.332226046	8.08E-16
CHMP6	IRF2	0.134302442	0.001488405
CHMP6	NAIP	-0.287614318	4.53E-12
CHMP6	NLRC4	0.09299225	0.028197861
CHMP6	NLRP6	0.16445151	9.66E-05
CHMP6	NLRP9	-0.124681139	0.003203764
CHMP6	NOD2	0.101006478	0.017098425
CHMP6	PLCG1	0.332009295	8.45E-16

CHMP6	PRKACA	0.429040591	2.38E-26
CHMP6	PYCARD	0.352876114	8.91E-18
CHMP6	SCAF11	-0.335498081	4.04E-16
CHMP6	TP53	0.422543695	1.58E-25
CHMP6	TP63	0.147208371	0.000491322
CHMP6	TIRAP	-0.154924552	0.000242247
CHMP6	TNF	0.181705023	1.60E-05
CHMP6	GZMA	-0.285098714	7.07E-12
CHMP7	CYCS	-0.215857672	2.69E-07
CHMP7	DHX9	-0.372672059	8.57E-20
CHMP7	ELANE	0.132615213	0.001708814
CHMP7	GPX4	0.292711342	1.82E-12
CHMP7	GSDMC	-0.222038992	1.19E-07
CHMP7	GSDMD	0.337682291	2.54E-16
CHMP7	GZMB	0.205328044	1.02E-06
CHMP7	HMGB1	-0.358090125	2.71E-18
CHMP7	IL18	-0.312020806	4.83E-14
CHMP7	IL1B	0.200692434	1.80E-06
CHMP7	IL6	0.175105095	3.25E-05
CHMP7	IRF1	0.305691842	1.64E-13
CHMP7	IRF2	0.231974154	3.06E-08
CHMP7	NAIP	-0.106505413	0.011898899
CHMP7	NLRC4	0.365540301	4.74E-19
CHMP7	NLRP1	-0.264911421	2.13E-10
CHMP7	NLRP3	0.289670071	3.14E-12
CHMP7	NLRP6	0.156165246	0.000215534

CHMP7	NLRP7	0.405919627	1.65E-23
CHMP7	NLRP9	-0.328086218	1.92E-15
CHMP7	PLCG1	0.192655094	4.66E-06
CHMP7	PRKACA	0.322719435	5.75E-15
CHMP7	SCAF11	-0.349215267	2.03E-17
CHMP7	TP63	-0.405957303	1.64E-23
CHMP7	TREM2	-0.267245184	1.46E-10
CHMP7	TIRAP	-0.248128356	2.92E-09
CHMP7	TNF	0.261802816	3.50E-10
CHMP7	GZMA	0.094113951	0.026343442
CHMP7	ZBP1	0.280075577	1.69E-11
CYCS	DHX9	0.234088146	2.27E-08
CYCS	ELANE	-0.13966947	0.000949335
CYCS	GPX4	-0.333094845	6.73E-16
CYCS	GSDMB	-0.113388991	0.007390672
CYCS	GSDMC	0.222961186	1.05E-07
CYCS	GSDMD	-0.421451175	2.16E-25
CYCS	GZMB	-0.233983236	2.30E-08
CYCS	HMGB1	0.370406362	1.48E-19
CYCS	IL18	0.284800084	7.45E-12
CYCS	IL1B	-0.320807064	8.47E-15
CYCS	IRF1	-0.333432536	6.26E-16
CYCS	IRF2	-0.186941774	8.94E-06
CYCS	NLRC4	-0.158219099	0.000177288
CYCS	NLRP3	-0.228580096	4.90E-08
CYCS	NLRP6	-0.188173498	7.78E-06

CYCS	NLRP7	-0.175313076	3.18E-05
CYCS	NLRP9	0.147482035	0.000479427
CYCS	NOD1	-0.242225568	7.02E-09
CYCS	NOD2	0.323363621	5.05E-15
CYCS	PLCG1	-0.286448668	5.57E-12
CYCS	PRKACA	-0.351626132	1.18E-17
CYCS	SCAF11	0.348279119	2.50E-17
CYCS	TP63	0.083552707	0.048731636
CYCS	GZMA	-0.199835858	2.00E-06
CYCS	ZBP1	-0.400139042	7.85E-23
DHX9	GPX4	-0.175283852	3.19E-05
DHX9	GSDMB	-0.147309629	0.000486889
DHX9	GSDMC	0.234677051	2.09E-08
DHX9	GSDMD	-0.301163425	3.84E-13
DHX9	GZMB	-0.147836379	0.000464424
DHX9	HMGB1	0.213474539	3.66E-07
DHX9	IL1B	-0.100190609	0.018019106
DHX9	IRF1	-0.25610375	8.61E-10
DHX9	IRF2	-0.124620901	0.003218668
DHX9	NLRC4	-0.116611022	0.005863081
DHX9	NLRP3	-0.169968949	5.54E-05
DHX9	NLRP7	-0.134106467	0.001512593
DHX9	PLCG1	-0.091525072	0.030791916
DHX9	PRKACA	-0.209104103	6.39E-07
DHX9	SCAF11	0.316986902	1.82E-14
DHX9	TP53	0.118932141	0.004945302

DHX9	TP63	0.580924102	1.41E-51
DHX9	TNF	-0.253483456	1.29E-09
DHX9	GZMA	-0.083879416	0.047853606
DHX9	ZBP1	-0.142929191	0.000716838
ELANE	GPX4	0.190527472	5.95E-06
ELANE	GSDMB	0.261500406	3.68E-10
ELANE	GSDMC	-0.171515771	4.72E-05
ELANE	GSDMD	0.300294914	4.52E-13
ELANE	HMGB1	-0.452223065	1.99E-29
ELANE	IL18	-0.424650297	8.58E-26
ELANE	IL1B	0.09355734	0.027250075
ELANE	IL6	0.114045612	0.007053196
ELANE	IRF1	0.16454856	9.56E-05
ELANE	IRF2	0.242163779	7.09E-09
ELANE	NLRC4	0.285109891	7.06E-12
ELANE	NLRP1	-0.382431422	7.70E-21
ELANE	NLRP3	0.161058703	0.000134793
ELANE	NLRP6	0.135042805	0.0014002
ELANE	NLRP7	0.427023075	4.30E-26
ELANE	NLRP9	-0.461377442	1.04E-30
ELANE	NOD1	-0.163691832	0.000104116
ELANE	NOD2	0.135972335	0.001296267
ELANE	PLCG1	0.122259842	0.003854849
ELANE	PRKACA	0.324779139	3.78E-15
ELANE	PYCARD	0.191100141	5.57E-06
ELANE	SCAF11	-0.301280127	3.76E-13

ELANE	TP53	0.251942545	1.64E-09
ELANE	TREM2	-0.232744924	2.74E-08
ELANE	TIRAP	-0.108167331	0.01063084
ELANE	TNF	-0.117985359	0.005302752
ELANE	GZMA	0.128632643	0.002352738
ELANE	ZBP1	0.356598136	3.81E-18
GPX4	GSDMC	-0.319109401	1.19E-14
GPX4	GSDMD	0.389009894	1.45E-21
GPX4	GZMB	0.161926352	0.000123852
GPX4	HMGB1	-0.397550275	1.56E-22
GPX4	IL18	-0.29099673	2.48E-12
GPX4	IL1B	0.234946294	2.01E-08
GPX4	IRF1	0.266513723	1.64E-10
GPX4	IRF2	0.215459614	2.84E-07
GPX4	NAIP	-0.083808316	0.048043551
GPX4	NLRP1	0.156182173	0.000215189
GPX4	NLRP3	0.22955192	4.28E-08
GPX4	NLRP6	0.21306922	3.86E-07
GPX4	NLRP7	0.201560681	1.62E-06
GPX4	NLRP9	-0.168420612	6.48E-05
GPX4	NOD1	0.258877466	5.57E-10
GPX4	NOD2	-0.305832778	1.59E-13
GPX4	PLCG1	0.343141004	7.78E-17
GPX4	PRKACA	0.526262773	5.31E-41
GPX4	PYCARD	0.221383578	1.30E-07
GPX4	SCAF11	-0.214255809	3.31E-07

GPX4	TP53	0.388414852	1.69E-21
GPX4	TNF	0.200600836	1.82E-06
GPX4	ZBP1	0.32726955	2.27E-15
GSDMB	GSDMC	-0.303638585	2.41E-13
GSDMB	GSDMD	0.317278903	1.72E-14
GSDMB	GZMB	0.236898411	1.52E-08
GSDMB	HMGB1	-0.178789198	2.19E-05
GSDMB	IL18	-0.253296082	1.33E-09
GSDMB	IL1A	0.186649368	9.24E-06
GSDMB	IL1B	0.155748071	0.000224192
GSDMB	IL6	0.084151586	0.047132312
GSDMB	IRF1	0.39113512	8.37E-22
GSDMB	IRF2	0.128072584	0.002459248
GSDMB	NAIP	0.401107921	6.06E-23
GSDMB	NLRC4	0.193090128	4.43E-06
GSDMB	NLRP1	-0.295403518	1.11E-12
GSDMB	NLRP3	0.094979596	0.02498511
GSDMB	NLRP7	0.364263364	6.41E-19
GSDMB	NLRP9	-0.363796478	7.16E-19
GSDMB	NOD1	-0.208756744	6.67E-07
GSDMB	PRKACA	0.093748947	0.026934992
GSDMB	TP53	-0.103045358	0.014975374
GSDMB	TP63	-0.330868804	1.07E-15
GSDMB	TIRAP	0.224383456	8.69E-08
GSDMB	TNF	-0.148689239	0.000430086
GSDMB	GZMA	0.328643672	1.71E-15

GSDMB	ZBP1	0.489755396	6.10E-35
GSDMC	GSDMD	-0.232824223	2.71E-08
GSDMC	GZMB	-0.284864047	7.37E-12
GSDMC	HMGB1	0.246493373	3.73E-09
GSDMC	IL18	0.396334676	2.15E-22
GSDMC	IL1A	-0.283087307	1.00E-11
GSDMC	IL1B	-0.373213797	7.51E-20
GSDMC	IL6	-0.2452091	4.52E-09
GSDMC	IRF1	-0.534301405	1.95E-42
GSDMC	IRF2	-0.286432053	5.59E-12
GSDMC	NAIP	-0.269861414	9.47E-11
GSDMC	NLRC4	-0.218410155	1.93E-07
GSDMC	NLRP1	0.144910157	0.000602597
GSDMC	NLRP2	0.091523854	0.030794151
GSDMC	NLRP3	-0.374278159	5.80E-20
GSDMC	NLRP6	-0.142618176	0.000736499
GSDMC	NLRP7	-0.398056422	1.37E-22
GSDMC	NLRP9	0.267452278	1.41E-10
GSDMC	NOD1	0.091343827	0.031126125
GSDMC	NOD2	0.265070037	2.07E-10
GSDMC	PRKACA	-0.305861934	1.58E-13
GSDMC	SCAF11	0.208522435	6.87E-07
GSDMC	TP63	0.344121931	6.27E-17
GSDMC	TIRAP	-0.177181177	2.60E-05
GSDMC	GZMA	-0.322356209	6.19E-15
GSDMC	ZBP1	-0.529009719	1.73E-41

GSDMD	GZMB	0.370669316	1.39E-19
GSDMD	HMGB1	-0.48352069	5.61E-34
GSDMD	IL18	-0.504734715	2.44E-37
GSDMD	IL1A	0.114445843	0.006854326
GSDMD	IL1B	0.336349297	3.37E-16
GSDMD	IL6	0.182790414	1.42E-05
GSDMD	IRF1	0.438988069	1.21E-27
GSDMD	NLRC4	0.27195718	6.69E-11
GSDMD	NLRP1	-0.292921481	1.75E-12
GSDMD	NLRP3	0.287670212	4.49E-12
GSDMD	NLRP6	0.241724696	7.56E-09
GSDMD	NLRP7	0.38821522	1.77E-21
GSDMD	NLRP9	-0.344515651	5.75E-17
GSDMD	NOD2	-0.190966246	5.66E-06
GSDMD	PLCG1	0.377746902	2.47E-20
GSDMD	PRKACA	0.327362396	2.22E-15
GSDMD	SCAF11	-0.271804888	6.86E-11
GSDMD	TP53	-0.097271985	0.021676398
GSDMD	TP63	-0.352858609	8.94E-18
GSDMD	TIRAP	-0.105449417	0.012772495
GSDMD	TNF	0.094601813	0.025570288
GSDMD	GZMA	0.1890956	7.01E-06
GSDMD	ZBP1	0.518213682	1.33E-39
GZMB	HMGB1	-0.185960468	9.98E-06
GZMB	IL18	-0.324418095	4.07E-15
GZMB	IL1A	0.362977562	8.68E-19

GZMB	IL1B	0.438714281	1.32E-27
GZMB	IL6	0.435153144	3.87E-27
GZMB	IRF1	0.570506826	2.08E-49
GZMB	NAIP	0.220257203	1.51E-07
GZMB	NLRC4	0.129108579	0.002265556
GZMB	NLRP1	-0.096419377	0.022859693
GZMB	NLRP2	-0.091278561	0.031247231
GZMB	NLRP3	0.387141229	2.34E-21
GZMB	NLRP7	0.171561662	4.70E-05
GZMB	NLRP9	-0.142100878	0.000770309
GZMB	NOD1	0.17613531	2.91E-05
GZMB	NOD2	-0.264238854	2.37E-10
GZMB	PLCG1	0.096639523	0.022548924
GZMB	PYCARD	-0.181445804	1.64E-05
GZMB	SCAF11	-0.111694893	0.008329024
GZMB	TP53	-0.276358378	3.19E-11
GZMB	TP63	-0.298835008	5.93E-13
GZMB	TNF	0.165459405	8.74E-05
GZMB	GZMA	0.499717322	1.60E-36
GZMB	ZBP1	0.406523762	1.40E-23
HMGB1	IL18	0.436147829	2.87E-27
HMGB1	IL1B	-0.261253819	3.82E-10
HMGB1	IL6	-0.184447073	1.18E-05
HMGB1	IRF1	-0.381525858	9.66E-21
HMGB1	IRF2	-0.256907517	7.59E-10
HMGB1	NAIP	0.102321815	0.015700677

HMGB1	NLRC4	-0.283576455	9.23E-12
HMGB1	NLRP1	0.188432494	7.56E-06
HMGB1	NLRP3	-0.249008623	2.56E-09
HMGB1	NLRP6	-0.164551399	9.56E-05
HMGB1	NLRP7	-0.323135716	5.29E-15
HMGB1	NLRP9	0.424715602	8.41E-26
HMGB1	PLCG1	-0.325997842	2.95E-15
HMGB1	PRKACA	-0.551711414	1.11E-45
HMGB1	PYCARD	-0.223553772	9.72E-08
HMGB1	SCAF11	0.512850203	1.09E-38
HMGB1	TP53	-0.282933103	1.03E-11
HMGB1	TREM2	0.084547238	0.046100049
HMGB1	GZMA	-0.091935602	0.03004626
HMGB1	ZBP1	-0.408061711	9.21E-24
IL18	IL1A	-0.092375842	0.029263891
IL18	IL1B	-0.401510789	5.44E-23
IL18	IL6	-0.393080451	5.05E-22
IL18	IRF1	-0.559072122	4.10E-47
IL18	IRF2	-0.299604015	5.14E-13
IL18	NLRC4	-0.362835939	8.97E-19
IL18	NLRP1	0.359544346	1.93E-18
IL18	NLRP2	0.083482425	0.048922271
IL18	NLRP3	-0.428370852	2.90E-26
IL18	NLRP6	-0.282641589	1.09E-11
IL18	NLRP7	-0.525160107	8.30E-41
IL18	NLRP9	0.331994182	8.48E-16

IL18	NOD2	0.226606468	6.42E-08
IL18	PLCG1	-0.269358081	1.03E-10
IL18	PRKACA	-0.354608051	6.01E-18
IL18	PYCARD	0.099218552	0.019172329
IL18	SCAF11	0.504567522	2.60E-37
IL18	TP53	-0.100501659	0.017663111
IL18	TP63	0.187376109	8.52E-06
IL18	GZMA	-0.244297472	5.18E-09
IL18	ZBP1	-0.643948723	1.49E-66
IL1A	IL1B	0.585125511	1.78E-52
IL1A	IL6	0.452131348	2.05E-29
IL1A	IRF1	0.406914933	1.26E-23
IL1A	IRF2	0.111590566	0.008390141
IL1A	NAIP	0.289950723	2.99E-12
IL1A	NLRP1	-0.149435296	0.000402002
IL1A	NLRP3	0.282663798	1.08E-11
IL1A	NLRP7	0.112823233	0.007692958
IL1A	NOD2	-0.149932133	0.000384258
IL1A	PLCG1	-0.207808553	7.52E-07
IL1A	PYCARD	-0.396654168	1.98E-22
IL1A	TP53	-0.267530644	1.39E-10
IL1A	TP63	-0.156894413	0.000201148
IL1A	GZMA	0.2464787	3.74E-09
IL1A	ZBP1	0.24868194	2.69E-09
IL1B	IL6	0.526955133	4.01E-41
IL1B	IRF1	0.541961125	7.67E-44

IL1B	IRF2	0.152714133	0.000297663
IL1B	NAIP	0.147511103	0.00047818
IL1B	NLRC4	0.176093448	2.92E-05
IL1B	NLRP1	-0.10534506	0.012861826
IL1B	NLRP3	0.510905921	2.31E-38
IL1B	NLRP6	0.229903789	4.08E-08
IL1B	NLRP7	0.287817245	4.37E-12
IL1B	NLRP9	-0.109548447	0.009669782
IL1B	NOD1	0.169849627	5.60E-05
IL1B	NOD2	-0.400073174	7.99E-23
IL1B	PLCG1	0.105864248	0.012422785
IL1B	PRKACA	0.270450491	8.59E-11
IL1B	PYCARD	-0.335705549	3.87E-16
IL1B	SCAF11	-0.251762244	1.68E-09
IL1B	TP53	-0.142437851	0.000748125
IL1B	TP63	-0.168028041	6.75E-05
IL1B	TREM2	0.107075262	0.011449783
IL1B	TNF	0.14463738	0.000617256
IL1B	GZMA	0.191017174	5.63E-06
IL1B	ZBP1	0.557142942	9.80E-47
IL6	IRF1	0.498119106	2.89E-36
IL6	IRF2	0.177939841	2.40E-05
IL6	NAIP	0.144302512	0.000635704
IL6	NLRC4	0.121121856	0.004200442
IL6	NLRP1	-0.193528796	4.21E-06
IL6	NLRP3	0.426457192	5.07E-26

IL6	NLRP6	0.120469582	0.00441094
IL6	NLRP7	0.240301103	9.31E-09
IL6	NLRP9	-0.195858189	3.21E-06
IL6	NOD1	0.096244117	0.023109744
IL6	PLCG1	-0.084547189	0.046100176
IL6	PRKACA	0.099145093	0.019262037
IL6	PYCARD	-0.267366096	1.43E-10
IL6	SCAF11	-0.232144668	2.98E-08
IL6	TP53	-0.08709638	0.039894776
IL6	TP63	-0.096377474	0.022919263
IL6	TNF	0.084995452	0.044953657
IL6	GZMA	0.154916344	0.000242434
IL6	ZBP1	0.312329158	4.55E-14
IRF1	IRF2	0.313641062	3.52E-14
IRF1	NAIP	0.323339122	5.07E-15
IRF1	NLRC4	0.252500898	1.50E-09
IRF1	NLRP1	-0.1764442	2.82E-05
IRF1	NLRP3	0.503735578	3.55E-37
IRF1	NLRP6	0.170318109	5.34E-05
IRF1	NLRP7	0.408216555	8.83E-24
IRF1	NLRP9	-0.255445162	9.54E-10
IRF1	NOD2	-0.248186754	2.90E-09
IRF1	PLCG1	0.134867845	0.001420599
IRF1	PRKACA	0.293748279	1.51E-12
IRF1	PYCARD	-0.17870522	2.21E-05
IRF1	SCAF11	-0.276279439	3.24E-11

IRF1	TP63	-0.309057553	8.58E-14
IRF1	TIRAP	0.173005311	4.05E-05
IRF1	TNF	0.159961983	0.000149923
IRF1	GZMA	0.459812708	1.73E-30
IRF1	ZBP1	0.631819667	2.12E-63
IRF2	NAIP	0.120722897	0.004328085
IRF2	NLRC4	0.181310012	1.67E-05
IRF2	NLRP1	-0.148068857	0.00045482
IRF2	NLRP3	0.201012017	1.73E-06
IRF2	NLRP6	0.114462952	0.006845938
IRF2	NLRP7	0.274090478	4.68E-11
IRF2	NLRP9	-0.167943905	6.80E-05
IRF2	PRKACA	0.533293026	2.96E-42
IRF2	PYCARD	-0.149302104	0.000406887
IRF2	SCAF11	-0.377350893	2.73E-20
IRF2	TP53	0.511894544	1.58E-38
IRF2	TP63	0.136837146	0.001205995
IRF2	TREM2	-0.083185619	0.049734238
IRF2	TIRAP	0.236611635	1.58E-08
IRF2	GZMA	0.141593484	0.000804862
IRF2	ZBP1	0.28121455	1.39E-11
NAIP	NLRC4	0.126991225	0.002677437
NAIP	NLRP1	-0.133032567	0.001651668
NAIP	NLRP3	0.095362753	0.024403455
NAIP	NLRP6	-0.137884911	0.001104395
NAIP	NLRP7	0.178648681	2.23E-05

NAIP	NLRP9	-0.194939154	3.57E-06
NAIP	NOD1	-0.190734705	5.81E-06
NAIP	PLCG1	-0.274775585	4.17E-11
NAIP	SCAF11	0.192434534	4.78E-06
NAIP	TP53	-0.127341261	0.00260495
NAIP	TP63	-0.136601008	0.001230051
NAIP	TREM2	-0.165596239	8.62E-05
NAIP	TIRAP	0.175915338	2.98E-05
NAIP	GZMA	0.499353754	1.83E-36
NAIP	ZBP1	0.199904796	1.98E-06
NLRC4	NLRP1	-0.482567446	7.84E-34
NLRC4	NLRP3	0.173062791	4.02E-05
NLRC4	NLRP7	0.474065037	1.49E-32
NLRC4	NLRP9	-0.383934135	5.27E-21
NLRC4	NOD1	-0.166486799	7.88E-05
NLRC4	PRKACA	0.134700415	0.001440376
NLRC4	SCAF11	-0.22818755	5.17E-08
NLRC4	TP63	-0.245131751	4.57E-09
NLRC4	TREM2	-0.321149609	7.90E-15
NLRC4	TIRAP	-0.181195168	1.69E-05
NLRC4	GZMA	0.263120126	2.84E-10
NLRC4	ZBP1	0.332457175	7.69E-16
NLRP1	NLRP3	-0.148628834	0.000432438
NLRP1	NLRP7	-0.552378802	8.23E-46
NLRP1	NLRP9	0.532618109	3.92E-42
NLRP1	NOD1	0.449506449	4.69E-29

NLRP1	NOD2	-0.211717609	4.59E-07
NLRP1	PLCG1	0.149506503	0.000399413
NLRP1	SCAF11	0.199999566	1.96E-06
NLRP1	TP53	0.229784414	4.15E-08
NLRP1	TP63	0.273979826	4.77E-11
NLRP1	TREM2	0.49875688	2.28E-36
NLRP1	TIRAP	0.352085724	1.07E-17
NLRP1	TNF	0.14570886	0.000561513
NLRP1	GZMA	-0.299008105	5.74E-13
NLRP1	ZBP1	-0.327803601	2.03E-15
NLRP2	NLRP6	-0.10937295	0.009787458
NLRP2	PYCARD	0.1055047	0.012725394
NLRP2	TREM2	-0.103403999	0.014626898
NLRP2	TNF	-0.106591648	0.01182995
NLRP3	NLRP6	0.209375786	6.17E-07
NLRP3	NLRP7	0.313955089	3.31E-14
NLRP3	NLRP9	-0.149334751	0.000405685
NLRP3	NOD1	0.130490446	0.002028884
NLRP3	NOD2	-0.209902185	5.78E-07
NLRP3	PLCG1	0.085309855	0.0441639
NLRP3	PRKACA	0.273245438	5.40E-11
NLRP3	PYCARD	-0.201258125	1.68E-06
NLRP3	SCAF11	-0.327848638	2.01E-15
NLRP3	TP63	-0.22766122	5.56E-08
NLRP3	TNF	0.135235273	0.00137807
NLRP3	GZMA	0.227895799	5.38E-08

NLRP3	ZBP1	0.433109664	7.13E-27
NLRP6	NLRP7	0.171905247	4.53E-05
NLRP6	NOD1	0.114527959	0.006814151
NLRP6	NOD2	-0.239387304	1.06E-08
NLRP6	PLCG1	0.209896391	5.78E-07
NLRP6	PRKACA	0.234872592	2.03E-08
NLRP6	PYCARD	-0.111602439	0.008383165
NLRP6	SCAF11	-0.185572748	1.04E-05
NLRP6	TP53	0.128297166	0.00241602
NLRP6	TREM2	0.161272776	0.000132012
NLRP6	GZMA	-0.08908316	0.035562443
NLRP6	ZBP1	0.35614545	4.23E-18
NLRP7	NLRP9	-0.597059838	4.25E-55
NLRP7	NOD1	-0.236251986	1.67E-08
NLRP7	PRKACA	0.228305051	5.09E-08
NLRP7	SCAF11	-0.266360729	1.68E-10
NLRP7	TP63	-0.345363636	4.77E-17
NLRP7	TREM2	-0.385769507	3.31E-21
NLRP7	TIRAP	-0.194922307	3.58E-06
NLRP7	TNF	-0.134271536	0.001492195
NLRP7	GZMA	0.34891267	2.17E-17
NLRP7	ZBP1	0.62724087	3.02E-62
NLRP9	NOD1	0.244141077	5.30E-09
NLRP9	NOD2	-0.112774815	0.007719334
NLRP9	PRKACA	-0.190703482	5.83E-06
NLRP9	PYCARD	-0.141368463	0.00082064

NLRP9	SCAF11	0.093249584	0.027762796
NLRP9	TP63	0.192679998	4.65E-06
NLRP9	TREM2	0.498023121	2.99E-36
NLRP9	TIRAP	0.292383922	1.93E-12
NLRP9	TNF	0.086134796	0.042147053
NLRP9	GZMA	-0.31969649	1.06E-14
NLRP9	ZBP1	-0.418735904	4.68E-25
NOD1	NOD2	-0.314869555	2.76E-14
NOD1	PLCG1	0.365098453	5.26E-19
NOD1	PRKACA	0.148478003	0.000438364
NOD1	PYCARD	-0.144033264	0.000650906
NOD1	SCAF11	-0.181824989	1.58E-05
NOD1	TP63	0.159953601	0.000150045
NOD1	TREM2	0.328425957	1.78E-15
NOD1	TIRAP	0.116365752	0.005968499
NOD1	TNF	0.110111554	0.009300649
NOD2	PLCG1	-0.274640004	4.27E-11
NOD2	PRKACA	-0.146356464	0.000530128
NOD2	PYCARD	0.344443366	5.84E-17
NOD2	TP63	0.09094271	0.031876823
NOD2	TREM2	-0.350984044	1.37E-17
NOD2	TIRAP	-0.244230134	5.23E-09
NOD2	GZMA	-0.100631507	0.017516328
NOD2	ZBP1	-0.385493453	3.55E-21
PLCG1	PRKACA	0.238252426	1.25E-08
PLCG1	SCAF11	-0.222988188	1.05E-07

PLCG1	TP53	0.114311758	0.006920385
PLCG1	TREM2	0.237079998	1.48E-08
PLCG1	TIRAP	-0.104920805	0.013230698
PLCG1	GZMA	-0.091219956	0.03135632
PLCG1	ZBP1	0.229399569	4.37E-08
PRKACA	PYCARD	0.103782596	0.014266786
PRKACA	SCAF11	-0.484539049	3.92E-34
PRKACA	TP53	0.502637865	5.37E-37
PRKACA	TIRAP	0.120245548	0.00448541
PRKACA	TNF	0.179347986	2.06E-05
PRKACA	GZMA	-0.088449437	0.036898648
PRKACA	ZBP1	0.417702938	6.28E-25
PYCARD	TP53	0.301229307	3.80E-13
PYCARD	TREM2	-0.134155422	0.001506517
PYCARD	TIRAP	-0.152164718	0.000313167
PYCARD	GZMA	-0.153089694	0.000287481
PYCARD	ZBP1	-0.232425109	2.87E-08
SCAF11	TP53	-0.243107615	6.17E-09
SCAF11	TP63	0.100517993	0.017644588
SCAF11	TIRAP	-0.093947872	0.026611199
SCAF11	TNF	-0.105171292	0.013011798
SCAF11	ZBP1	-0.298791827	5.98E-13
TP53	TP63	0.468226373	1.07E-31
TP53	TREM2	0.093712399	0.02699485
TP53	TIRAP	0.246806186	3.56E-09
TP53	GZMA	-0.23921111	1.09E-08

TP63	TREM2	0.170546067	5.22E-05
TP63	TIRAP	0.102247205	0.015777194
TP63	TNF	-0.142204397	0.00076343
TP63	GZMA	-0.24353364	5.79E-09
TP63	ZBP1	-0.305978756	1.55E-13
TREM2	TIRAP	0.481901477	9.91E-34
TREM2	GZMA	-0.225972287	7.01E-08
TIRAP	ZBP1	0.114634973	0.006762111
GZMA	ZBP1	0.369787358	1.72E-19

Table S4. Correlations between pyroptosis-related genes in periodontitis samples

Gene1	Gene2	cor	pvalue
AIM2	APIP	-0.111790206	0.021316759
AIM2	CASP1	0.510703998	1.53E-29
AIM2	CASP3	0.563082257	7.78E-37
AIM2	CASP4	0.224545789	3.01E-06
AIM2	CASP5	0.188692695	9.26E-05
AIM2	CASP8	0.311012407	5.82E-11
AIM2	CHMP2B	-0.130526297	0.007117645
AIM2	CHMP4B	-0.194132886	5.72E-05
AIM2	CHMP4C	-0.255168319	9.98E-08
AIM2	CHMP6	-0.322926233	9.54E-12
AIM2	CHMP7	0.141671174	0.003463046
AIM2	CYCS	-0.111578065	0.02156577
AIM2	DHX9	-0.130536145	0.007113276
AIM2	ELANE	-0.109211494	0.024519235

AIM2	GSDMB	0.212460114	1.02E-05
AIM2	GSDMC	-0.291117153	9.99E-10
AIM2	GSDMD	0.182745407	0.000154477
AIM2	GZMB	0.418910919	1.91E-19
AIM2	HMGB1	0.165260101	0.000634579
AIM2	IL18	-0.210883228	1.19E-05
AIM2	IL1A	0.388848176	9.36E-17
AIM2	IL1B	0.435807666	4.40E-21
AIM2	IL6	0.227845989	2.13E-06
AIM2	IRF1	0.454288955	5.58E-23
AIM2	IRF2	-0.098496492	0.042651062
AIM2	NAIP	0.268502303	1.96E-08
AIM2	NLRC4	0.131313997	0.006775689
AIM2	NLRP1	-0.181127513	0.000177051
AIM2	NLRP3	0.285589438	2.12E-09
AIM2	NLRP6	0.131883041	0.006537887
AIM2	NLRP7	0.204619677	2.18E-05
AIM2	NOD1	-0.097887898	0.043954431
AIM2	NOD2	-0.217851488	5.98E-06
AIM2	PRKACA	-0.171835787	0.000378925
AIM2	PYCARD	-0.271335722	1.37E-08
AIM2	SCAF11	0.127512568	0.00857292
AIM2	TP53	-0.453690379	6.45E-23
AIM2	TP63	-0.383359353	2.71E-16
AIM2	GZMA	0.400368606	9.38E-18
AIM2	ZBP1	0.379094459	6.12E-16

APIP	BAK1	-0.33465005	1.49E-12
APIP	BAX	0.131795733	0.00657388
APIP	CASP1	0.131661395	0.006629608
APIP	CASP3	0.206535235	1.81E-05
APIP	CASP4	0.384340131	2.25E-16
APIP	CASP5	0.109708176	0.023871951
APIP	CHMP2A	0.115761245	0.017095141
APIP	CHMP2B	0.402251424	6.38E-18
APIP	CHMP4B	0.123547269	0.01088885
APIP	CHMP4C	0.336832787	1.04E-12
APIP	CHMP6	-0.155322161	0.001335085
APIP	CYCS	0.194446821	5.56E-05
APIP	ELANE	0.152039235	0.001691157
APIP	GPX4	-0.373000296	1.92E-15
APIP	GSDMB	0.218562347	5.57E-06
APIP	GSDMD	-0.206349892	1.85E-05
APIP	GZMB	-0.229531685	1.79E-06
APIP	HMGB1	0.121652773	0.0121793
APIP	IL18	0.148133627	0.00222714
APIP	IL1B	-0.277204247	6.43E-09
APIP	IRF1	-0.122307833	0.011718587
APIP	IRF2	0.23007374	1.69E-06
APIP	NAIP	0.217169645	6.40E-06
APIP	NLRC4	0.186332375	0.000113692
APIP	NLRP1	-0.443137664	8.04E-22
APIP	NLRP3	-0.155694269	0.001299408

APIP	NLRP6	-0.286488154	1.88E-09
APIP	NLRP7	0.162338421	0.000793172
APIP	NLRP9	-0.294210987	6.51E-10
APIP	NOD1	-0.495390985	1.22E-27
APIP	NOD2	0.445758685	4.33E-22
APIP	PLCG1	-0.450291582	1.47E-22
APIP	PRKACA	-0.171288766	0.000395817
APIP	TREM2	-0.464789049	4.13E-24
APIP	TNF	-0.191372031	7.32E-05
APIP	GZMA	0.278476722	5.44E-09
APIP	ZBP1	-0.177370669	0.000241936
BAK1	BAX	0.260581815	5.20E-08
BAK1	CASP1	-0.273294733	1.06E-08
BAK1	CASP3	-0.10874128	0.025145933
BAK1	CASP4	-0.275532364	7.98E-09
BAK1	CASP5	-0.155707946	0.001298113
BAK1	CASP6	-0.396898208	1.89E-17
BAK1	CASP8	-0.226185557	2.54E-06
BAK1	CHMP2B	-0.515724396	3.46E-30
BAK1	CHMP4B	0.111741033	0.021374255
BAK1	CHMP4C	-0.385500948	1.80E-16
BAK1	CHMP6	0.471184588	8.08E-25
BAK1	CHMP7	0.126022261	0.009386123
BAK1	ELANE	0.254842393	1.04E-07
BAK1	GPX4	0.360804696	1.76E-14
BAK1	GSDMB	0.095769649	0.048754998

BAK1	GSDMC	-0.173960031	0.000319493
BAK1	GSDMD	0.140195809	0.003820861
BAK1	GZMB	0.096010573	0.048187784
BAK1	HMGB1	-0.46749704	2.08E-24
BAK1	IL18	-0.223387233	3.40E-06
BAK1	IL1A	-0.115345512	0.017499881
BAK1	IL1B	0.106131396	0.028881336
BAK1	IRF1	0.187894861	9.93E-05
BAK1	IRF2	0.216046093	7.17E-06
BAK1	NAIP	-0.202462406	2.67E-05
BAK1	NLRP3	0.164413058	0.000677233
BAK1	NLRP6	0.227139214	2.30E-06
BAK1	NOD1	0.099398862	0.040778576
BAK1	PLCG1	0.280844116	3.99E-09
BAK1	PRKACA	0.481792044	5.00E-26
BAK1	PYCARD	0.318760033	1.81E-11
BAK1	SCAF11	-0.299749667	2.99E-10
BAK1	TP53	0.414721557	4.69E-19
BAK1	TP63	0.098169131	0.043348035
BAK1	TREM2	0.194723073	5.43E-05
BAK1	TIRAP	0.101748996	0.036224966
BAK1	GZMA	-0.240717268	5.28E-07
BAK1	ZBP1	0.284780874	2.36E-09
BAX	CASP4	0.213648447	9.09E-06
BAX	CASP5	-0.096823497	0.046314499
BAX	CASP6	-0.499540384	3.81E-28

BAX	CASP8	-0.432059155	1.03E-20
BAX	CASP9	0.190381704	7.99E-05
BAX	CHMP2A	0.398547973	1.36E-17
BAX	CHMP2B	-0.382970074	2.93E-16
BAX	CHMP4B	0.719047132	1.09E-68
BAX	CHMP4C	-0.256267473	8.75E-08
BAX	CHMP6	0.40941513	1.44E-18
BAX	CHMP7	0.161907657	0.000819438
BAX	CYCS	-0.111543146	0.021606998
BAX	DHX9	0.213419586	9.30E-06
BAX	ELANE	0.581209124	1.12E-39
BAX	GPX4	0.218109719	5.83E-06
BAX	GSDMB	0.341581352	4.78E-13
BAX	GSDMD	0.334409471	1.55E-12
BAX	HMGB1	-0.507233258	4.21E-29
BAX	IL18	-0.45134235	1.14E-22
BAX	IL1B	0.121793975	0.01207866
BAX	IL6	0.130847596	0.006976341
BAX	IRF1	0.220569092	4.54E-06
BAX	NAIP	0.11680478	0.016115054
BAX	NLRC4	0.373414141	1.78E-15
BAX	NLRP1	-0.454411993	5.41E-23
BAX	NLRP6	0.173673386	0.000326971
BAX	NLRP7	0.507336416	4.09E-29
BAX	NLRP9	-0.631256171	1.62E-48
BAX	NOD1	-0.267856713	2.12E-08

BAX	NOD2	0.216853525	6.61E-06
BAX	PLCG1	0.166499187	0.000576652
BAX	PRKACA	0.24381615	3.72E-07
BAX	PYCARD	0.418073427	2.28E-19
BAX	SCAF11	-0.201379755	2.95E-05
BAX	TP53	0.257104937	7.92E-08
BAX	TREM2	-0.349548826	1.25E-13
BAX	TIRAP	-0.237820307	7.28E-07
BAX	TNF	-0.210423357	1.25E-05
BAX	GZMA	0.148589295	0.002157458
BAX	ZBP1	0.424267315	5.91E-20
CASP1	CASP3	0.380307077	4.87E-16
CASP1	CASP4	0.378180136	7.28E-16
CASP1	CASP5	0.227559862	2.20E-06
CASP1	CASP6	0.2339878	1.11E-06
CASP1	CASP8	0.415044038	4.38E-19
CASP1	CASP9	0.133274643	0.005987552
CASP1	CHMP2B	0.145106609	0.002744684
CASP1	CHMP6	-0.405740984	3.11E-18
CASP1	CHMP7	-0.19508826	5.25E-05
CASP1	CYCS	-0.10260949	0.034669363
CASP1	DHX9	0.166967168	0.00055608
CASP1	ELANE	-0.190375514	7.99E-05
CASP1	GPX4	-0.240991796	5.12E-07
CASP1	GSDMB	0.099252077	0.041078351
CASP1	GSDMC	0.169290541	0.000463662

CASP1	GSDMD	-0.099165471	0.041256096
CASP1	GZMB	0.201274049	2.98E-05
CASP1	HMGB1	0.338166575	8.39E-13
CASP1	IL18	0.206672578	1.79E-05
CASP1	IL1A	0.293425719	7.26E-10
CASP1	IL1B	0.269163761	1.80E-08
CASP1	IRF1	0.158287688	0.001074101
CASP1	IRF2	-0.209932177	1.31E-05
CASP1	NAIP	0.306586443	1.12E-10
CASP1	NLRP1	-0.144562453	0.002848577
CASP1	NLRP2	0.158382059	0.001066626
CASP1	NOD2	-0.104378608	0.031649085
CASP1	PLCG1	-0.195103573	5.24E-05
CASP1	PRKACA	-0.375649271	1.17E-15
CASP1	PYCARD	-0.232401954	1.31E-06
CASP1	SCAF11	0.262984436	3.88E-08
CASP1	TP53	-0.393479023	3.75E-17
CASP1	GZMA	0.443258009	7.81E-22
CASP3	CASP4	0.226170532	2.55E-06
CASP3	CASP5	0.215980604	7.21E-06
CASP3	CASP6	-0.127039371	0.00882405
CASP3	CASP8	0.319322285	1.66E-11
CASP3	CASP9	0.111341309	0.02184665
CASP3	CHMP2B	-0.112197436	0.020845738
CASP3	CHMP4C	-0.20588457	1.93E-05
CASP3	CHMP6	-0.291832532	9.05E-10

CASP3	GPX4	-0.296745209	4.57E-10
CASP3	GSDMB	0.324486235	7.49E-12
CASP3	GSDMC	-0.212362753	1.03E-05
CASP3	GZMB	0.150642666	0.001867495
CASP3	HMGB1	0.126264025	0.009249712
CASP3	IL18	-0.330984677	2.68E-12
CASP3	IL1A	0.283017828	2.99E-09
CASP3	IL1B	0.299493028	3.10E-10
CASP3	IL6	0.255053112	1.01E-07
CASP3	IRF1	0.334593979	1.50E-12
CASP3	NAIP	0.238305825	6.90E-07
CASP3	NLRC4	0.258224228	6.92E-08
CASP3	NLRP1	-0.486274399	1.50E-26
CASP3	NLRP3	0.263457262	3.66E-08
CASP3	NLRP6	0.102074076	0.035630455
CASP3	NLRP7	0.34833926	1.53E-13
CASP3	NLRP9	-0.129876398	0.007411316
CASP3	NOD1	-0.352634994	7.35E-14
CASP3	PLCG1	-0.231913932	1.38E-06
CASP3	PRKACA	-0.199897411	3.38E-05
CASP3	PYCARD	-0.341241868	5.05E-13
CASP3	TP53	-0.393820645	3.51E-17
CASP3	TP63	-0.33407778	1.63E-12
CASP3	TNF	-0.098620187	0.042390178
CASP3	GZMA	0.299320297	3.18E-10
CASP3	ZBP1	0.481345305	5.64E-26

CASP4	CASP5	0.161488184	0.000845786
CASP4	CASP8	-0.140713348	0.003691701
CASP4	CASP9	0.141609876	0.003477285
CASP4	CHMP2A	0.343432562	3.51E-13
CASP4	CHMP2B	0.272758405	1.14E-08
CASP4	CHMP4B	0.151038368	0.001815896
CASP4	CHMP4C	0.150854979	0.001839645
CASP4	CHMP6	-0.147474693	0.002331546
CASP4	CHMP7	0.145896798	0.002599952
CASP4	ELANE	0.109716646	0.023861041
CASP4	GPX4	-0.239017713	6.37E-07
CASP4	GSDMB	0.169488786	0.000456477
CASP4	GSDMC	0.109192881	0.024543784
CASP4	IL1A	0.165800691	0.000608673
CASP4	IL1B	0.107992813	0.026171985
CASP4	IL6	0.124208015	0.010468133
CASP4	NAIP	0.240088644	5.66E-07
CASP4	NLRC4	0.284360648	2.50E-09
CASP4	NLRP1	-0.431385132	1.21E-20
CASP4	NLRP3	-0.109327159	0.02436716
CASP4	NLRP7	0.208872594	1.45E-05
CASP4	NLRP9	-0.309820246	6.94E-11
CASP4	NOD1	-0.287608848	1.61E-09
CASP4	NOD2	0.148267025	0.002206531
CASP4	PLCG1	-0.305080396	1.39E-10
CASP4	PRKACA	-0.175562998	0.000280531

CASP4	SCAF11	0.15748233	0.001139884
CASP4	TP53	-0.276550685	7.00E-09
CASP4	TP63	-0.101491888	0.036701117
CASP4	TREM2	-0.527774995	8.83E-32
CASP4	TIRAP	-0.349748163	1.21E-13
CASP4	TNF	-0.100510478	0.038567772
CASP4	GZMA	0.245685916	3.01E-07
CASP5	CASP6	0.152430478	0.001644569
CASP5	CASP8	0.145808547	0.002615764
CASP5	CHMP2B	0.135871866	0.005070492
CASP5	CHMP4B	-0.165278624	0.000633675
CASP5	CHMP4C	-0.145421472	0.002686157
CASP5	CHMP6	-0.175602972	0.000279619
CASP5	GPX4	-0.196067203	4.81E-05
CASP5	GSDMB	0.124983563	0.009992753
CASP5	GSDMD	0.117774797	0.015248513
CASP5	GZMB	0.153027207	0.001575774
CASP5	HMGB1	0.121800988	0.012073681
CASP5	IL1A	0.225535638	2.72E-06
CASP5	IL1B	0.19718734	4.34E-05
CASP5	NAIP	0.205824832	1.94E-05
CASP5	NLRC4	0.126075389	0.009355994
CASP5	PLCG1	-0.2325864	1.29E-06
CASP5	PYCARD	-0.109971388	0.023534953
CASP5	TP53	-0.264484646	3.23E-08
CASP5	TP63	-0.202965309	2.54E-05

CASP5	TIRAP	0.128594373	0.008022562
CASP5	GZMA	0.14935394	0.002044987
CASP6	CASP8	0.306643326	1.11E-10
CASP6	CHMP2B	0.408265964	1.84E-18
CASP6	CHMP4B	-0.408168794	1.88E-18
CASP6	CHMP4C	0.350144328	1.13E-13
CASP6	CHMP6	-0.371741031	2.42E-15
CASP6	CHMP7	-0.308802903	8.06E-11
CASP6	CYCS	0.187311628	0.00010446
CASP6	ELANE	-0.427075261	3.17E-20
CASP6	GPX4	-0.230217687	1.66E-06
CASP6	GSDMB	-0.097814363	0.04411416
CASP6	GSDMC	0.271743654	1.30E-08
CASP6	GSDMD	-0.263060959	3.84E-08
CASP6	HMGB1	0.591288088	2.47E-41
CASP6	IL18	0.596171449	3.71E-42
CASP6	IL1B	-0.196989601	4.42E-05
CASP6	IL6	-0.253594396	1.20E-07
CASP6	IRF1	-0.381915336	3.58E-16
CASP6	IRF2	-0.292944055	7.76E-10
CASP6	NLRC4	-0.277681877	6.04E-09
CASP6	NLRP1	0.229865662	1.72E-06
CASP6	NLRP3	-0.228418896	2.01E-06
CASP6	NLRP6	-0.253444594	1.22E-07
CASP6	NLRP7	-0.351625166	8.75E-14
CASP6	NLRP9	0.342691259	3.97E-13

CASP6	NOD2	-0.144104796	0.002938711
CASP6	PLCG1	-0.206206474	1.87E-05
CASP6	PRKACA	-0.446478053	3.65E-22
CASP6	PYCARD	-0.134820794	0.005425179
CASP6	SCAF11	0.509774025	2.01E-29
CASP6	TP53	-0.343493335	3.47E-13
CASP6	TREM2	0.102262951	0.035288862
CASP6	ZBP1	-0.456565191	3.19E-23
CASP8	CHMP2A	-0.363117889	1.16E-14
CASP8	CHMP2B	0.151536987	0.001752736
CASP8	CHMP4B	-0.344701198	2.84E-13
CASP8	CHMP6	-0.393909309	3.44E-17
CASP8	CHMP7	-0.339547575	6.69E-13
CASP8	CYCS	0.144317974	0.002896409
CASP8	DHX9	0.150955918	0.001826538
CASP8	ELANE	-0.354226973	5.58E-14
CASP8	GPX4	-0.364573314	8.95E-15
CASP8	GSDMB	-0.12707092	0.008807105
CASP8	GSDMD	-0.402252231	6.38E-18
CASP8	GZMB	0.154722169	0.001394514
CASP8	HMGB1	0.545554926	2.99E-34
CASP8	IL18	0.189237988	8.83E-05
CASP8	IL1A	0.162038336	0.000811386
CASP8	IL1B	0.102318656	0.035188648
CASP8	IRF2	-0.156614949	0.001214868
CASP8	NAIP	0.135812525	0.005089947

CASP8	NLRC4	-0.265107324	2.99E-08
CASP8	NLRP1	0.204049457	2.30E-05
CASP8	NLRP7	-0.275121231	8.42E-09
CASP8	NLRP9	0.447166046	3.10E-22
CASP8	NOD1	0.145116481	0.002742832
CASP8	NOD2	-0.196977545	4.42E-05
CASP8	PLCG1	-0.230959824	1.53E-06
CASP8	PRKACA	-0.406931092	2.43E-18
CASP8	PYCARD	-0.447377351	2.95E-22
CASP8	SCAF11	0.218338073	5.69E-06
CASP8	TP53	-0.291919282	8.94E-10
CASP8	TP63	0.11181107	0.021292404
CASP8	TREM2	0.340626411	5.60E-13
CASP8	TIRAP	0.348411742	1.52E-13
CASP8	GZMA	0.216292721	6.99E-06
CASP9	CHMP2A	0.229833183	1.73E-06
CASP9	CHMP4B	0.159710449	0.000966372
CASP9	CHMP6	0.170566225	0.000419204
CASP9	CHMP7	0.142018182	0.00338343
CASP9	DHX9	0.11089335	0.022386781
CASP9	GPX4	0.099968324	0.039633001
CASP9	GZMB	0.110768583	0.022539265
CASP9	HMGB1	-0.158667013	0.001044346
CASP9	IL1B	0.154482738	0.0014189
CASP9	NAIP	-0.213005539	9.69E-06
CASP9	NLRC4	0.148472901	0.002175065

CASP9	NLRP1	-0.148308059	0.002200226
CASP9	NLRP6	0.158874073	0.001028426
CASP9	NLRP7	0.105447316	0.029935797
CASP9	SCAF11	-0.136310606	0.004928722
CASP9	TREM2	-0.114551348	0.018296364
CASP9	TIRAP	-0.13661216	0.004833363
CASP9	GZMA	-0.099636506	0.040297156
CHMP2A	CHMP4B	0.24964878	1.91E-07
CHMP2A	CHMP6	0.129051592	0.007799592
CHMP2A	CHMP7	0.171905161	0.000376832
CHMP2A	CYCS	-0.130647592	0.007064003
CHMP2A	ELANE	0.208136679	1.56E-05
CHMP2A	GPX4	0.145866117	0.002605439
CHMP2A	GSDMB	0.100440481	0.038703925
CHMP2A	GSDMD	0.250842769	1.66E-07
CHMP2A	HMGB1	-0.200707792	3.14E-05
CHMP2A	IL1A	-0.144300574	0.00289984
CHMP2A	IL6	-0.108576902	0.025368252
CHMP2A	IRF1	-0.165722643	0.000612352
CHMP2A	IRF2	-0.352637376	7.35E-14
CHMP2A	NAIP	-0.101412816	0.036848618
CHMP2A	NLRC4	0.201512498	2.91E-05
CHMP2A	NLRP1	-0.345967429	2.29E-13
CHMP2A	NLRP7	0.315505948	2.97E-11
CHMP2A	NLRP9	-0.382335163	3.30E-16
CHMP2A	NOD1	-0.223663533	3.30E-06

CHMP2A	PLCG1	0.100823134	0.037964557
CHMP2A	PRKACA	-0.138738015	0.004206968
CHMP2A	PYCARD	0.317988809	2.04E-11
CHMP2A	TP53	-0.193554673	6.03E-05
CHMP2A	TP63	-0.1573427	0.001151659
CHMP2A	TREM2	-0.360819239	1.75E-14
CHMP2A	TIRAP	-0.486988329	1.24E-26
CHMP2A	TNF	-0.197183579	4.34E-05
CHMP2B	CHMP4B	-0.179752031	0.000198637
CHMP2B	CHMP4C	0.557556252	5.27E-36
CHMP2B	CHMP6	-0.31906476	1.73E-11
CHMP2B	CHMP7	-0.137797539	0.004474427
CHMP2B	CYCS	0.285379449	2.18E-09
CHMP2B	ELANE	-0.352509297	7.51E-14
CHMP2B	GPX4	-0.374909889	1.35E-15
CHMP2B	GSDMB	-0.26117447	4.84E-08
CHMP2B	GSDMC	0.302774121	1.94E-10
CHMP2B	GSDMD	-0.424390955	5.75E-20
CHMP2B	GZMB	-0.177478074	0.000239806
CHMP2B	HMGB1	0.45673918	3.06E-23
CHMP2B	IL18	0.519029349	1.28E-30
CHMP2B	IL1A	0.131140384	0.006849768
CHMP2B	IL1B	-0.263405928	3.68E-08
CHMP2B	IRF1	-0.357270418	3.28E-14
CHMP2B	NLRC4	-0.098008524	0.043693468
CHMP2B	NLRP3	-0.272303263	1.21E-08

CHMP2B	NLRP6	-0.278604835	5.35E-09
CHMP2B	NLRP7	-0.30627261	1.17E-10
CHMP2B	NLRP9	0.141059477	0.003607539
CHMP2B	NOD2	0.211898008	1.08E-05
CHMP2B	PLCG1	-0.403698834	4.74E-18
CHMP2B	PRKACA	-0.387300574	1.27E-16
CHMP2B	PYCARD	-0.218174349	5.79E-06
CHMP2B	SCAF11	0.355026636	4.86E-14
CHMP2B	TP53	-0.244505396	3.44E-07
CHMP2B	TREM2	-0.284379329	2.49E-09
CHMP2B	TIRAP	-0.172532029	0.000358397
CHMP2B	ZBP1	-0.533847925	1.31E-32
CHMP4B	CHMP4C	-0.112643099	0.020340648
CHMP4B	CHMP6	0.308907293	7.94E-11
CHMP4B	DHX9	0.316432937	2.58E-11
CHMP4B	ELANE	0.474477512	3.44E-25
CHMP4B	GSDMB	0.170414017	0.000424292
CHMP4B	GSDMC	0.145741631	0.002627812
CHMP4B	GSDMD	0.120108913	0.013328915
CHMP4B	GZMB	-0.148164018	0.00222243
CHMP4B	HMGB1	-0.378104111	7.39E-16
CHMP4B	IL18	-0.289292798	1.28E-09
CHMP4B	NLRC4	0.171204738	0.000398473
CHMP4B	NLRP1	-0.286861761	1.78E-09
CHMP4B	NLRP7	0.232533586	1.29E-06
CHMP4B	NLRP9	-0.399153105	1.20E-17

CHMP4B	NOD1	-0.124959432	0.010007251
CHMP4B	NOD2	0.186833753	0.000108874
CHMP4B	PLCG1	0.215053952	7.91E-06
CHMP4B	PRKACA	0.204973158	2.11E-05
CHMP4B	PYCARD	0.19912013	3.64E-05
CHMP4B	SCAF11	-0.144438571	0.002872724
CHMP4B	TP53	0.259725757	5.77E-08
CHMP4B	TP63	0.144212617	0.002917245
CHMP4B	TREM2	-0.286509038	1.87E-09
CHMP4B	TIRAP	-0.185752038	0.00011952
CHMP4B	TNF	-0.18468968	0.000130921
CHMP4B	ZBP1	0.224316917	3.09E-06
CHMP4C	CHMP6	-0.164226538	0.000686976
CHMP4C	CHMP7	-0.190897148	7.63E-05
CHMP4C	CYCS	0.256241904	8.78E-08
CHMP4C	ELANE	-0.171637899	0.000384957
CHMP4C	GPX4	-0.251730429	1.50E-07
CHMP4C	GSDMB	-0.28144018	3.69E-09
CHMP4C	GSDMC	0.328234968	4.16E-12
CHMP4C	GSDMD	-0.446456493	3.67E-22
CHMP4C	GZMB	-0.243620101	3.81E-07
CHMP4C	HMGB1	0.265658103	2.79E-08
CHMP4C	IL18	0.451599378	1.07E-22
CHMP4C	IL1A	-0.21297654	9.72E-06
CHMP4C	IL1B	-0.462749461	6.89E-24
CHMP4C	IL6	-0.173158712	0.00034081

CHMP4C	IRF1	-0.492058514	3.09E-27
CHMP4C	NLRP3	-0.336366902	1.13E-12
CHMP4C	NLRP6	-0.277674082	6.04E-09
CHMP4C	NLRP7	-0.239238897	6.22E-07
CHMP4C	NLRP9	0.13921395	0.004077201
CHMP4C	NOD2	0.203440107	2.43E-05
CHMP4C	PLCG1	-0.227695853	2.17E-06
CHMP4C	PRKACA	-0.396002535	2.27E-17
CHMP4C	SCAF11	0.2131276	9.57E-06
CHMP4C	TP63	0.209314869	1.39E-05
CHMP4C	TREM2	-0.173134759	0.000341467
CHMP4C	TIRAP	-0.169741648	0.000447462
CHMP4C	TNF	-0.203638437	2.39E-05
CHMP4C	ZBP1	-0.587694567	9.79E-41
CHMP6	CHMP7	0.181236514	0.000175438
CHMP6	ELANE	0.336124327	1.17E-12
CHMP6	GPX4	0.444730873	5.52E-22
CHMP6	GSDMD	0.280105793	4.40E-09
CHMP6	HMGB1	-0.455869073	3.79E-23
CHMP6	IL18	-0.240431084	5.45E-07
CHMP6	IL1A	-0.332173299	2.22E-12
CHMP6	IRF2	0.121300092	0.01243391
CHMP6	NAIP	-0.256302081	8.72E-08
CHMP6	NLRP6	0.122553787	0.011549623
CHMP6	NLRP9	-0.183505034	0.000144836
CHMP6	NOD2	0.104111396	0.032090332

CHMP6	PLCG1	0.373005584	1.92E-15
CHMP6	PRKACA	0.43859825	2.32E-21
CHMP6	PYCARD	0.378112315	7.37E-16
CHMP6	SCAF11	-0.29864304	3.50E-10
CHMP6	TP53	0.433965312	6.71E-21
CHMP6	TP63	0.130507844	0.007125838
CHMP6	TIRAP	-0.183958328	0.000139356
CHMP6	TNF	0.126543013	0.00909449
CHMP6	GZMA	-0.299326351	3.17E-10
CHMP7	CYCS	-0.14452983	0.002854918
CHMP7	DHX9	-0.348003671	1.62E-13
CHMP7	ELANE	0.123392026	0.010989843
CHMP7	GPX4	0.297634948	4.03E-10
CHMP7	GSDMC	-0.252749917	1.33E-07
CHMP7	GSDMD	0.315862488	2.81E-11
CHMP7	GZMB	0.151239071	0.001790226
CHMP7	HMGB1	-0.301891866	2.20E-10
CHMP7	IL18	-0.281730585	3.55E-09
CHMP7	IL1B	0.112251884	0.020783451
CHMP7	IRF1	0.281772838	3.53E-09
CHMP7	IRF2	0.187257706	0.00010495
CHMP7	NLRC4	0.359661083	2.15E-14
CHMP7	NLRP1	-0.259821428	5.71E-08
CHMP7	NLRP3	0.232913024	1.24E-06
CHMP7	NLRP6	0.120319398	0.013166754
CHMP7	NLRP7	0.423946925	6.34E-20

CHMP7	NLRP9	-0.330999148	2.68E-12
CHMP7	NOD1	-0.108595564	0.025342926
CHMP7	PLCG1	0.12942403	0.007622073
CHMP7	PRKACA	0.2759806	7.53E-09
CHMP7	PYCARD	0.138669753	0.004225883
CHMP7	SCAF11	-0.265683647	2.78E-08
CHMP7	TP63	-0.4508367	1.29E-22
CHMP7	TREM2	-0.314664586	3.37E-11
CHMP7	TIRAP	-0.257115788	7.91E-08
CHMP7	TNF	0.177347519	0.000242397
CHMP7	GZMA	0.098034557	0.043637319
CHMP7	ZBP1	0.226374011	2.49E-06
CYCS	DHX9	0.125112685	0.009915494
CYCS	GPX4	-0.265523614	2.84E-08
CYCS	GSDMC	0.160918665	0.000882812
CYCS	GSDMD	-0.309671994	7.10E-11
CYCS	GZMB	-0.137640465	0.004520564
CYCS	HMGB1	0.267154745	2.31E-08
CYCS	IL18	0.140427523	0.003762536
CYCS	IL1B	-0.201885027	2.81E-05
CYCS	IL6	0.196899217	4.46E-05
CYCS	IRF1	-0.219773786	4.92E-06
CYCS	NAIP	-0.096093706	0.047993348
CYCS	NLRP3	-0.111048878	0.022197955
CYCS	NLRP6	-0.137277334	0.004628874
CYCS	NOD1	-0.126247027	0.009259245

CYCS	NOD2	0.192864046	6.41E-05
CYCS	PLCG1	-0.165896657	0.000604178
CYCS	PRKACA	-0.243616102	3.81E-07
CYCS	PYCARD	-0.09631301	0.047483576
CYCS	SCAF11	0.233200835	1.20E-06
CYCS	GZMA	-0.118893508	0.014300134
CYCS	ZBP1	-0.259107633	6.22E-08
DHX9	GPX4	-0.250705813	1.69E-07
DHX9	GSDMB	-0.160758273	0.000893507
DHX9	GSDMC	0.247685948	2.39E-07
DHX9	GSDMD	-0.271284525	1.38E-08
DHX9	GZMB	-0.119247506	0.014011032
DHX9	HMGB1	0.156777223	0.001200504
DHX9	IL1A	0.115296539	0.017548106
DHX9	IL6	0.100760456	0.038084838
DHX9	IRF1	-0.201003143	3.06E-05
DHX9	NLRC4	-0.11645202	0.016440714
DHX9	NLRP3	-0.151860696	0.001712816
DHX9	NLRP6	0.137042207	0.004700247
DHX9	PRKACA	-0.174635102	0.000302507
DHX9	PYCARD	-0.136905178	0.0047423
DHX9	SCAF11	0.290071961	1.15E-09
DHX9	TP63	0.601929405	3.79E-43
DHX9	TNF	-0.241982888	4.58E-07
ELANE	GPX4	0.1528502	0.0015959
ELANE	GSDMB	0.315818677	2.83E-11

ELANE	GSDMC	-0.182157676	0.000162346
ELANE	GSDMD	0.252458897	1.37E-07
ELANE	HMGB1	-0.429974611	1.66E-20
ELANE	IL18	-0.437287598	3.13E-21
ELANE	IRF1	0.141419094	0.003521943
ELANE	IRF2	0.228922707	1.90E-06
ELANE	NLRC4	0.297529898	4.09E-10
ELANE	NLRP1	-0.429583612	1.81E-20
ELANE	NLRP3	0.144721715	0.002817806
ELANE	NLRP6	0.114307287	0.018547408
ELANE	NLRP7	0.424061962	6.18E-20
ELANE	NLRP9	-0.47246593	5.80E-25
ELANE	NOD1	-0.231247845	1.49E-06
ELANE	NOD2	0.249727981	1.89E-07
ELANE	PRKACA	0.33508289	1.39E-12
ELANE	PYCARD	0.308896244	7.95E-11
ELANE	SCAF11	-0.328034513	4.29E-12
ELANE	TP53	0.268106986	2.05E-08
ELANE	TREM2	-0.211237219	1.15E-05
ELANE	TIRAP	-0.099156734	0.041274064
ELANE	TNF	-0.153124353	0.001564828
ELANE	ZBP1	0.356521322	3.74E-14
GPX4	GSDMC	-0.271359677	1.36E-08
GPX4	GSDMD	0.395013816	2.76E-17
GPX4	HMGB1	-0.355522008	4.45E-14
GPX4	IL18	-0.197335983	4.28E-05

GPX4	IL1A	-0.132110793	0.006444825
GPX4	IL1B	0.106111078	0.02891219
GPX4	IL6	-0.178745356	0.000215971
GPX4	IRF1	0.177656272	0.000236312
GPX4	NAIP	-0.133730527	0.005816528
GPX4	NLRP1	0.164376122	0.000679152
GPX4	NLRP3	0.155043626	0.001362378
GPX4	NLRP6	0.198224962	3.95E-05
GPX4	NLRP7	0.13136546	0.006753869
GPX4	NOD1	0.15443949	0.001423346
GPX4	NOD2	-0.196830261	4.48E-05
GPX4	PLCG1	0.345556583	2.46E-13
GPX4	PRKACA	0.490426219	4.84E-27
GPX4	PYCARD	0.412882706	6.95E-19
GPX4	SCAF11	-0.158703759	0.001041504
GPX4	TP53	0.345876739	2.33E-13
GPX4	TP63	-0.114927489	0.017915266
GPX4	TNF	0.162482127	0.000784584
GPX4	GZMA	-0.098659176	0.042308224
GPX4	ZBP1	0.210402466	1.25E-05
GSDMB	GSDMC	-0.276657373	6.90E-09
GSDMB	GSDMD	0.32730305	4.81E-12
GSDMB	GZMB	0.189353593	8.74E-05
GSDMB	HMGB1	-0.192874052	6.40E-05
GSDMB	IL18	-0.236823097	8.12E-07
GSDMB	IRF1	0.371925794	2.34E-15

GSDMB	IRF2	0.113569009	0.01932518
GSDMB	NAIP	0.359161264	2.35E-14
GSDMB	NLRC4	0.224379177	3.07E-06
GSDMB	NLRP1	-0.293862706	6.83E-10
GSDMB	NLRP7	0.328060948	4.27E-12
GSDMB	NLRP9	-0.368802252	4.16E-15
GSDMB	NOD1	-0.321270872	1.23E-11
GSDMB	PRKACA	0.149038956	0.002090652
GSDMB	PYCARD	0.119041779	0.014178413
GSDMB	TP63	-0.350741384	1.02E-13
GSDMB	TIRAP	0.269687514	1.68E-08
GSDMB	TNF	-0.095859574	0.048542637
GSDMB	GZMA	0.29886189	3.39E-10
GSDMB	ZBP1	0.514976048	4.33E-30
GSDMC	GSDMD	-0.21042352	1.25E-05
GSDMC	GZMB	-0.146815559	0.002440432
GSDMC	HMGB1	0.212590229	1.01E-05
GSDMC	IL18	0.383315102	2.74E-16
GSDMC	IL1A	-0.16102263	0.000875943
GSDMC	IL1B	-0.236878876	8.07E-07
GSDMC	IL6	-0.117671599	0.015338717
GSDMC	IRF1	-0.457093468	2.81E-23
GSDMC	IRF2	-0.222594946	3.69E-06
GSDMC	NAIP	-0.221704352	4.04E-06
GSDMC	NLRC4	-0.21742636	6.24E-06
GSDMC	NLRP1	0.157756582	0.001117077

GSDMC	NLRP2	0.112607372	0.020380743
GSDMC	NLRP3	-0.342941601	3.81E-13
GSDMC	NLRP6	-0.155349503	0.001332433
GSDMC	NLRP7	-0.366861723	5.92E-15
GSDMC	NLRP9	0.213271074	9.44E-06
GSDMC	NOD1	0.235728865	9.16E-07
GSDMC	NOD2	0.147663324	0.002301211
GSDMC	PRKACA	-0.312160837	4.90E-11
GSDMC	PYCARD	-0.12442693	0.010331957
GSDMC	SCAF11	0.23917542	6.26E-07
GSDMC	TP63	0.392328363	4.72E-17
GSDMC	TIRAP	-0.201044682	3.04E-05
GSDMC	GZMA	-0.207110173	1.72E-05
GSDMC	ZBP1	-0.4865665	1.39E-26
GSDMD	GZMB	0.26150059	4.65E-08
GSDMD	HMGB1	-0.40456848	3.96E-18
GSDMD	IL18	-0.426703153	3.44E-20
GSDMD	IL1B	0.23981058	5.84E-07
GSDMD	IRF1	0.339964226	6.24E-13
GSDMD	IRF2	-0.155783502	0.001290983
GSDMD	NLRC4	0.225106784	2.84E-06
GSDMD	NLRP1	-0.225711628	2.67E-06
GSDMD	NLRP3	0.173517513	0.000331106
GSDMD	NLRP6	0.201177048	3.01E-05
GSDMD	NLRP7	0.315846594	2.82E-11
GSDMD	NLRP9	-0.28994426	1.17E-09

GSDMD	NOD1	-0.117145531	0.015805859
GSDMD	NOD2	-0.112866729	0.020091231
GSDMD	PLCG1	0.306110651	1.20E-10
GSDMD	PRKACA	0.239907055	5.78E-07
GSDMD	PYCARD	0.225988183	2.59E-06
GSDMD	SCAF11	-0.157753462	0.001117334
GSDMD	TP63	-0.384187896	2.31E-16
GSDMD	TIRAP	-0.154835211	0.001383134
GSDMD	ZBP1	0.412425737	7.65E-19
GZMB	IL18	-0.148491604	0.002172227
GZMB	IL1A	0.209177744	1.41E-05
GZMB	IL1B	0.243716864	3.77E-07
GZMB	IL6	0.246095351	2.87E-07
GZMB	IRF1	0.377739273	7.91E-16
GZMB	IRF2	-0.213951812	8.83E-06
GZMB	NAIP	0.157131343	0.001169697
GZMB	NLRP2	-0.108801425	0.02506501
GZMB	NLRP3	0.235897058	8.99E-07
GZMB	NOD2	-0.138253836	0.004342802
GZMB	PRKACA	-0.110501569	0.022868621
GZMB	TP53	-0.261458636	4.68E-08
GZMB	TP63	-0.255929376	9.11E-08
GZMB	TNF	0.187017857	0.000107153
GZMB	GZMA	0.352523638	7.49E-14
GZMB	ZBP1	0.191898136	6.99E-05
HMGB1	IL18	0.343211146	3.64E-13

HMGB1	IL1B	-0.14864858	0.00214854
HMGB1	IRF1	-0.277970935	5.81E-09
HMGB1	IRF2	-0.150387822	0.001901433
HMGB1	NAIP	0.106246766	0.028706679
HMGB1	NLRC4	-0.224607379	3.00E-06
HMGB1	NLRP1	0.123679978	0.010803168
HMGB1	NLRP3	-0.153819923	0.001488467
HMGB1	NLRP6	-0.135866453	0.005072264
HMGB1	NLRP7	-0.217262532	6.35E-06
HMGB1	NLRP9	0.372926578	1.95E-15
HMGB1	NOD2	-0.189770163	8.43E-05
HMGB1	PLCG1	-0.276341533	7.19E-09
HMGB1	PRKACA	-0.504995053	8.04E-29
HMGB1	PYCARD	-0.43359935	7.29E-21
HMGB1	SCAF11	0.486492716	1.41E-26
HMGB1	TP53	-0.336378971	1.12E-12
HMGB1	ZBP1	-0.287688375	1.60E-09
IL18	IL1B	-0.220547491	4.55E-06
IL18	IL6	-0.289405748	1.26E-09
IL18	IRF1	-0.46350525	5.70E-24
IL18	IRF2	-0.205520525	2.00E-05
IL18	NLRC4	-0.310970566	5.85E-11
IL18	NLRP1	0.340450052	5.76E-13
IL18	NLRP2	0.136072613	0.005005175
IL18	NLRP3	-0.344729488	2.82E-13
IL18	NLRP6	-0.311778356	5.19E-11

IL18	NLRP7	-0.506791614	4.79E-29
IL18	NLRP9	0.31004937	6.71E-11
IL18	NOD1	0.166880214	0.00055985
IL18	PLCG1	-0.158816334	0.001032842
IL18	PRKACA	-0.246038161	2.89E-07
IL18	SCAF11	0.429655497	1.78E-20
IL18	TP53	-0.130827118	0.006985272
IL18	TP63	0.233172454	1.21E-06
IL18	GZMA	-0.104497294	0.03145477
IL18	ZBP1	-0.537016104	4.79E-33
IL1A	IL1B	0.538579366	2.90E-33
IL1A	IL6	0.391664846	5.38E-17
IL1A	IRF1	0.300502284	2.68E-10
IL1A	NAIP	0.297464523	4.13E-10
IL1A	NLRP1	-0.126612853	0.009055998
IL1A	NLRP3	0.193084609	6.29E-05
IL1A	NOD1	-0.118995369	0.014216414
IL1A	PLCG1	-0.290723297	1.05E-09
IL1A	PYCARD	-0.288397015	1.45E-09
IL1A	TP53	-0.260397896	5.32E-08
IL1A	TP63	-0.107025139	0.027551828
IL1A	GZMA	0.120658882	0.012908871
IL1B	IL6	0.424230008	5.95E-20
IL1B	IRF1	0.371123257	2.72E-15
IL1B	NAIP	0.163771117	0.000711312
IL1B	NLRC4	0.14013208	0.003837046

IL1B	NLRP3	0.425265835	4.74E-20
IL1B	NLRP6	0.206449434	1.83E-05
IL1B	NLRP7	0.125977438	0.00941161
IL1B	NOD2	-0.232673951	1.28E-06
IL1B	PRKACA	0.122175382	0.01181048
IL1B	PYCARD	-0.14511717	0.002742703
IL1B	TP53	-0.156564202	0.001219393
IL1B	TP63	-0.139717376	0.003943887
IL1B	TREM2	0.096048977	0.048097879
IL1B	TNF	0.12017646	0.013276685
IL1B	ZBP1	0.367371408	5.40E-15
IL6	IRF1	0.341096796	5.18E-13
IL6	NAIP	0.108641529	0.025280644
IL6	NLRC4	0.095762046	0.04877299
IL6	NLRP1	-0.201583861	2.89E-05
IL6	NLRP3	0.300860874	2.55E-10
IL6	NLRP6	0.115877769	0.016983178
IL6	NLRP9	-0.12946959	0.007600607
IL6	NOD2	0.173391308	0.000334489
IL6	PLCG1	-0.242255117	4.44E-07
IL6	PYCARD	-0.143220772	0.003120196
IL6	SCAF11	-0.154797912	0.00138688
IL6	TNF	0.113814336	0.019063636
IL6	ZBP1	0.102451785	0.034950131
IRF1	IRF2	0.181922966	0.000165592
IRF1	NAIP	0.332721325	2.03E-12

IRF1	NLRC4	0.234247656	1.08E-06
IRF1	NLRP1	-0.149733936	0.001991111
IRF1	NLRP3	0.373514358	1.74E-15
IRF1	NLRP6	0.192510008	6.62E-05
IRF1	NLRP7	0.314329773	3.55E-11
IRF1	NLRP9	-0.177576903	0.000237863
IRF1	NOD1	-0.130113496	0.007302947
IRF1	PRKACA	0.196897759	4.46E-05
IRF1	SCAF11	-0.19427116	5.65E-05
IRF1	TP63	-0.32344325	8.81E-12
IRF1	TIRAP	0.181262973	0.000175048
IRF1	TNF	0.170183523	0.000432106
IRF1	GZMA	0.318168984	1.98E-11
IRF1	ZBP1	0.510754199	1.51E-29
IRF2	NAIP	0.154960665	0.001370606
IRF2	NLRC4	0.132870574	0.006142899
IRF2	NLRP1	-0.182975093	0.0001515
IRF2	NLRP6	0.0956943	0.048933538
IRF2	NLRP7	0.219173476	5.23E-06
IRF2	NLRP9	-0.148270244	0.002206036
IRF2	NOD1	-0.20542182	2.02E-05
IRF2	NOD2	0.154343314	0.001433281
IRF2	PLCG1	-0.204550866	2.19E-05
IRF2	PRKACA	0.495846276	1.08E-27
IRF2	SCAF11	-0.288862992	1.36E-09
IRF2	TP53	0.572894995	2.37E-38

IRF2	TP63	0.152651825	0.001618735
IRF2	TREM2	-0.113412025	0.019494176
IRF2	TIRAP	0.23859443	6.68E-07
IRF2	ZBP1	0.142263768	0.003328091
NAIP	NLRC4	0.167553417	0.000531271
NAIP	NLRP1	-0.176113681	0.000268204
NAIP	NLRP6	-0.157651402	0.001125773
NAIP	NLRP7	0.172786692	0.00035115
NAIP	NLRP9	-0.163857038	0.00070666
NAIP	NOD1	-0.284113049	2.58E-09
NAIP	PLCG1	-0.334216686	1.60E-12
NAIP	SCAF11	0.175407241	0.000284113
NAIP	TP53	-0.131291924	0.006785067
NAIP	TP63	-0.17321841	0.000339177
NAIP	TREM2	-0.183758579	0.000141746
NAIP	TIRAP	0.178551692	0.000219464
NAIP	GZMA	0.52149035	6.09E-31
NAIP	ZBP1	0.1900461	8.23E-05
NLRC4	NLRP1	-0.46226916	7.77E-24
NLRC4	NLRP3	0.188226898	9.65E-05
NLRC4	NLRP6	0.095838117	0.048593238
NLRC4	NLRP7	0.497346168	7.08E-28
NLRC4	NLRP9	-0.384248779	2.29E-16
NLRC4	NOD1	-0.224733024	2.96E-06
NLRC4	NOD2	0.098967115	0.041665638
NLRC4	PYCARD	0.13779957	0.004473834

NLRC4	SCAF11	-0.19453731	5.52E-05
NLRC4	TP63	-0.285056662	2.28E-09
NLRC4	TREM2	-0.357089112	3.39E-14
NLRC4	TIRAP	-0.149398592	0.002038588
NLRC4	GZMA	0.244355859	3.50E-07
NLRC4	ZBP1	0.290265388	1.12E-09
NLRP1	NLRP2	-0.096281108	0.047557448
NLRP1	NLRP3	-0.128507721	0.008065454
NLRP1	NLRP7	-0.574951656	1.13E-38
NLRP1	NLRP9	0.52287462	4.00E-31
NLRP1	NOD1	0.550275296	6.23E-35
NLRP1	NOD2	-0.295400973	5.52E-10
NLRP1	PLCG1	0.269898316	1.64E-08
NLRP1	SCAF11	0.210402135	1.25E-05
NLRP1	TP53	0.146043486	0.002573862
NLRP1	TP63	0.246645968	2.70E-07
NLRP1	TREM2	0.527238044	1.04E-31
NLRP1	TIRAP	0.293542576	7.14E-10
NLRP1	TNF	0.185916648	0.000117839
NLRP1	GZMA	-0.250224908	1.78E-07
NLRP1	ZBP1	-0.280267202	4.30E-09
NLRP2	NLRP7	0.120847996	0.012767153
NLRP2	PRKACA	0.102704682	0.034500819
NLRP2	PYCARD	0.098130359	0.043431214
NLRP2	TP53	0.104468927	0.031501119
NLRP2	TREM2	-0.111185816	0.022032843

NLRP3	NLRP6	0.193450781	6.08E-05
NLRP3	NLRP7	0.234098765	1.09E-06
NLRP3	PRKACA	0.180422415	0.000187826
NLRP3	SCAF11	-0.283798276	2.69E-09
NLRP3	TP53	-0.102306127	0.035211168
NLRP3	TP63	-0.259793441	5.73E-08
NLRP3	TNF	0.13381938	0.00578371
NLRP3	ZBP1	0.31102384	5.81E-11
NLRP6	NLRP7	0.164344716	0.000680788
NLRP6	NOD2	-0.216041175	7.17E-06
NLRP6	PLCG1	0.177261964	0.000244109
NLRP6	PRKACA	0.261070388	4.90E-08
NLRP6	SCAF11	-0.157907429	0.001104712
NLRP6	TP53	0.169429696	0.000458607
NLRP6	TREM2	0.169836627	0.000444119
NLRP6	GZMA	-0.124209595	0.010467145
NLRP6	ZBP1	0.395416482	2.55E-17
NLRP7	NLRP9	-0.545718798	2.83E-34
NLRP7	NOD1	-0.364123315	9.71E-15
NLRP7	PRKACA	0.175657443	0.00027838
NLRP7	PYCARD	0.164923145	0.00065124
NLRP7	SCAF11	-0.246034016	2.89E-07
NLRP7	TP63	-0.378311297	7.10E-16
NLRP7	TREM2	-0.379174099	6.03E-16
NLRP7	TIRAP	-0.16867641	0.000486593
NLRP7	TNF	-0.205325561	2.04E-05

NLRP7	GZMA	0.294371449	6.37E-10
NLRP7	ZBP1	0.571985681	3.30E-38
NLRP9	NOD1	0.335464277	1.30E-12
NLRP9	NOD2	-0.199030737	3.67E-05
NLRP9	PRKACA	-0.189824268	8.39E-05
NLRP9	PYCARD	-0.293078175	7.62E-10
NLRP9	SCAF11	0.114755982	0.018088165
NLRP9	TP53	-0.113914203	0.018958054
NLRP9	TP63	0.186292851	0.000114081
NLRP9	TREM2	0.472171841	6.26E-25
NLRP9	TIRAP	0.261087849	4.89E-08
NLRP9	TNF	0.128775966	0.007933333
NLRP9	GZMA	-0.242242223	4.45E-07
NLRP9	ZBP1	-0.367317283	5.45E-15
NOD1	NOD2	-0.202601284	2.63E-05
NOD1	PLCG1	0.313260471	4.16E-11
NOD1	TP63	0.218472889	5.62E-06
NOD1	TREM2	0.326290683	5.65E-12
NOD1	TNF	0.104073065	0.032154056
NOD1	GZMA	-0.182390181	0.000159189
NOD1	ZBP1	-0.147561791	0.002317494
NOD2	PLCG1	-0.246865933	2.63E-07
NOD2	PYCARD	0.221469305	4.14E-06
NOD2	SCAF11	-0.098547441	0.042543443
NOD2	TP63	0.118700797	0.014459711
NOD2	TREM2	-0.391420623	5.64E-17

NOD2	TIRAP	-0.19228191	6.75E-05
NOD2	ZBP1	-0.235326407	9.57E-07
PLCG1	PRKACA	0.169466802	0.000457268
PLCG1	PYCARD	0.148665764	0.002145961
PLCG1	TP53	0.139262343	0.004064211
PLCG1	TREM2	0.264620599	3.17E-08
PLCG1	TIRAP	-0.136860363	0.004756126
PLCG1	GZMA	-0.217415114	6.25E-06
PLCG1	ZBP1	0.117649786	0.015357844
PRKACA	PYCARD	0.250013746	1.83E-07
PRKACA	SCAF11	-0.40759903	2.11E-18
PRKACA	TP53	0.566961925	1.98E-37
PRKACA	TIRAP	0.139866833	0.003905076
PRKACA	GZMA	-0.209244405	1.40E-05
PRKACA	ZBP1	0.335956361	1.20E-12
PYCARD	TP53	0.303689833	1.70E-10
PYCARD	TREM2	-0.209989312	1.30E-05
PYCARD	TIRAP	-0.1648411	0.000655357
SCAF11	TP53	-0.276899277	6.69E-09
SCAF11	TP63	0.13222633	0.006398071
SCAF11	ZBP1	-0.172832376	0.000349865
TP53	TP63	0.435008404	5.29E-21
TP53	TREM2	0.108047364	0.026096004
TP53	TIRAP	0.259080409	6.24E-08
TP53	GZMA	-0.229521943	1.79E-06
TP63	TREM2	0.196709175	4.53E-05

TP63	TNF	-0.134797367	0.005433333
TP63	GZMA	-0.235772695	9.11E-07
TP63	ZBP1	-0.355347304	4.59E-14
TREM2	TIRAP	0.45555979	4.09E-23
TREM2	GZMA	-0.27354186	1.03E-08
TIRAP	ZBP1	0.176992839	0.000249567
TNF	ZBP1	-0.12242575	0.01163731
GZMA	ZBP1	0.219771844	4.92E-06

Table S5. The 3 distinct PRG patterns based on 48 significant PRGs

Samples	Subtype
GSM261086	cluster A
GSM261089	cluster A
GSM261090	cluster A
GSM261097	cluster A
GSM261098	cluster A
GSM261100	cluster A
GSM261105	cluster A
GSM261114	cluster A
GSM261115	cluster A
GSM261120	cluster A
GSM261125	cluster A
GSM261126	cluster A
GSM261128	cluster A
GSM261129	cluster A
GSM261136	cluster A

GSM261145	cluster A
GSM261164	cluster A
GSM261175	cluster A
GSM261176	cluster A
GSM261178	cluster A
GSM261179	cluster A
GSM261180	cluster A
GSM261186	cluster A
GSM261189	cluster A
GSM261191	cluster A
GSM261192	cluster A
GSM261194	cluster A
GSM261195	cluster A
GSM261197	cluster A
GSM261198	cluster A
GSM261200	cluster A
GSM261208	cluster A
GSM261216	cluster A
GSM261218	cluster A
GSM261219	cluster A
GSM261225	cluster A
GSM261238	cluster A
GSM261239	cluster A
GSM261247	cluster A
GSM261248	cluster A
GSM261250	cluster A

GSM261253	cluster A
GSM261255	cluster A
GSM261261	cluster A
GSM261262	cluster A
GSM261263	cluster A
GSM261264	cluster A
GSM261265	cluster A
GSM261267	cluster A
GSM261268	cluster A
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GSM261282	cluster A
GSM261284	cluster A
GSM261285	cluster A
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GSM261298	cluster A
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GSM261302	cluster A
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GSM261316	cluster A

GSM261319	cluster A
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GSM261331	cluster A
GSM404005	cluster A
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GSM404009	cluster A
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GSM404015	cluster A
GSM404019	cluster A
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GSM404045	cluster A
GSM404057	cluster A
GSM404062	cluster A
GSM404063	cluster A
GSM404065	cluster A
GSM404066	cluster A
GSM404073	cluster A

GSM404098	cluster A
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GSM404110	cluster A
GSM404111	cluster A
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GSM404129	cluster A
GSM404144	cluster A
GSM404145	cluster A
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GSM404164	cluster A
GSM404165	cluster A
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GSM404176	cluster A
GSM404178	cluster A
GSM404179	cluster A
GSM404181	cluster A
GSM404184	cluster A
GSM404185	cluster A
GSM404186	cluster A
GSM404187	cluster A

GSM404188	cluster A
GSM404189	cluster A
GSM404191	cluster A
GSM404192	cluster A
GSM404193	cluster A
GSM404204	cluster A
GSM404205	cluster A
GSM404213	cluster A
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GSM404229	cluster A
GSM404232	cluster A
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GSM404240	cluster A
GSM404241	cluster A
GSM404243	cluster A
GSM404244	cluster A
GSM404247	cluster A

GSM404252	cluster A
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GSM404254	cluster A
GSM404256	cluster A
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GSM404261	cluster A
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GSM404263	cluster A
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GSM404294	cluster A
GSM404297	cluster A
GSM404299	cluster A
GSM404301	cluster A
GSM404302	cluster A
GSM404304	cluster A
GSM404307	cluster A
GSM404309	cluster A

GSM404310	cluster A
GSM404311	cluster A
GSM404313	cluster A
GSM404314	cluster A
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GSM261092	cluster B
GSM261093	cluster B
GSM261101	cluster B
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GSM261132	cluster B
GSM261133	cluster B
GSM261139	cluster B
GSM261140	cluster B
GSM261141	cluster B
GSM261142	cluster B

GSM261148	cluster B
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GSM261156	cluster B
GSM261157	cluster B
GSM261158	cluster B
GSM261160	cluster B
GSM261161	cluster B
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GSM261166	cluster B
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GSM261187	cluster B
GSM261203	cluster B
GSM261204	cluster B
GSM261207	cluster B
GSM261209	cluster B
GSM261210	cluster B
GSM261211	cluster B

GSM261212	cluster B
GSM261214	cluster B
GSM261256	cluster B
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GSM261259	cluster B
GSM261260	cluster B
GSM261276	cluster B
GSM261278	cluster B
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GSM404032	cluster B
GSM404033	cluster B
GSM404041	cluster B
GSM404043	cluster B
GSM404044	cluster B
GSM404046	cluster B
GSM404047	cluster B

GSM404048	cluster B
GSM404050	cluster B
GSM404051	cluster B
GSM404052	cluster B
GSM404055	cluster B
GSM404056	cluster B
GSM404058	cluster B
GSM404067	cluster B
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GSM404069	cluster B
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GSM404089	cluster B
GSM404090	cluster B
GSM404091	cluster B
GSM404092	cluster B
GSM404094	cluster B
GSM404095	cluster B
GSM404097	cluster B

GSM404100	cluster B
GSM404101	cluster B
GSM404103	cluster B
GSM404104	cluster B
GSM404106	cluster B
GSM404107	cluster B
GSM404112	cluster B
GSM404114	cluster B
GSM404116	cluster B
GSM404120	cluster B
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GSM404133	cluster B
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GSM404138	cluster B
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GSM404141	cluster B
GSM404142	cluster B
GSM404156	cluster B
GSM404182	cluster B
GSM404199	cluster B
GSM404201	cluster B
GSM404202	cluster B
GSM404300	cluster B
GSM261094	cluster C

GSM261095	cluster C
GSM261118	cluster C
GSM261123	cluster C
GSM261124	cluster C
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GSM261152	cluster C
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GSM261230	cluster C
GSM261231	cluster C
GSM261232	cluster C
GSM261233	cluster C
GSM261235	cluster C
GSM261236	cluster C
GSM261241	cluster C

GSM261242	cluster C
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GSM261245	cluster C
GSM261251	cluster C
GSM261252	cluster C
GSM261271	cluster C
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GSM261315	cluster C
GSM261318	cluster C
GSM261321	cluster C
GSM261322	cluster C
GSM261327	cluster C
GSM261330	cluster C
GSM404011	cluster C

GSM404035	cluster C
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GSM404061	cluster C
GSM404072	cluster C
GSM404081	cluster C
GSM404086	cluster C
GSM404113	cluster C
GSM404119	cluster C
GSM404130	cluster C
GSM404139	cluster C
GSM404147	cluster C
GSM404148	cluster C
GSM404150	cluster C
GSM404153	cluster C
GSM404154	cluster C
GSM404157	cluster C
GSM404158	cluster C
GSM404159	cluster C
GSM404161	cluster C
GSM404162	cluster C
GSM404167	cluster C
GSM404168	cluster C
GSM404170	cluster C
GSM404171	cluster C
GSM404177	cluster C
GSM404194	cluster C

GSM404196	cluster C
GSM404197	cluster C
GSM404198	cluster C
GSM404207	cluster C
GSM404208	cluster C
GSM404209	cluster C
GSM404210	cluster C
GSM404211	cluster C
GSM404212	cluster C
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GSM404234	cluster C
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GSM404249	cluster C
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GSM404255	cluster C
GSM404257	cluster C
GSM404268	cluster C
GSM404269	cluster C
GSM404271	cluster C
GSM404276	cluster C
GSM404277	cluster C
GSM404280	cluster C

GSM404281	cluster C
GSM404282	cluster C
GSM404283	cluster C
GSM404285	cluster C
GSM404287	cluster C
GSM404288	cluster C
GSM404289	cluster C
GSM404290	cluster C
GSM404291	cluster C
GSM404292	cluster C
GSM404293	cluster C
GSM404295	cluster C
GSM404296	cluster C
GSM404298	cluster C
GSM404303	cluster C
GSM404305	cluster C
GSM404306	cluster C
GSM404308	cluster C
GSM404312	cluster C

Table S6. PRG pattern-related DEGs

SLAMF6
CCR5
LRRC25
DENND1C

SH2D2A
CYP26A1
KIF21B
AF289551
LY86
PACSIN3
CCDC163P
SENCR
KCNMB3
CD33
GAS2L1
IFNL2
ERBB2
CAMSAP3
LOC101927752
DOK4
TMEM151A
CD3E
GATSL3
DEGS2
EPB41L1
CTBS
CARNS1
CD8A
CTC-459F4.3
GALR3

OPLAH
ELMO3
KATNA1
ABR
SNORA68
TRAV12-2
C3orf20
LOC101928443
PLA2G2D
LAIR2
B4GALT7
RNF11
CCDC113
MSC
GPR1
lgk
ATP8B1
DNAJC4
ZNF512B
HLX
DHRS11
LMNB2
ADK
ACAP3
MPST
IDO1

SEPT1
UNC93B1
HRAS
SLC39A7
GRAMD1A
SPATA18
ZBTB32
MRPS9
TRG-AS1
LOC284023
IGSF8
GTF2H3
SPI1
SLA
CYP27C1
LINC00865
PLCD4
ATF5
SSSCA1
COL9A3
NCKAP1L
RP11-111M22.3
LINGO1
PRKCD
BIN2
COBL

RASSF2
PGLYRP2
ST6GALNAC4
KLK11
TMEM255B
ELL
PSD
PMM2
VPS4B
NLRP7
SNPH
CDK2AP2
HOPX
MID2
MGC10814
ORMDL3
C9orf172
VSIG10L
LOC100289098
P2RX5
TOX2
NEDD9
PM20D2
CDH5
MEIS1
ACAP1

ODF3B
LY9
VIT
PPP1CB
TPRXL
PPP1R16B
TAGAP
PLAGL1
KIAA0513
HPCAL1
VNN2
BST1
ZCCHC5
CMTR2
NFE2L2
ENO2
C2orf88
BCL2L1
FOXN1
DCPS
FMNL1
ARRDC3
NSG1
CCL18
SRGN
CCR10

MANSC1
OLFML2B
LINC00582
LRMP
JSRP1
WWP1
AHCYL2
SASH3
FCRL5
ID2
ME1
NDUFAF3
SAMSN1
TNFRSF19
TP53AIP1
GALNT12
IL24
U2AF1L4
CD19
PTPN13
NFE2
LINC00467
TMEM40
KMO
SCNN1B
STX11

CASP6
LOC344887
EFCAB4A
FCGR3B
UNG
ARHGAP30
BSPRY
IL1B
HLA-DMB
SLC51A
CYTIP
GMPPA
PRPS1
MPV17
IFNAR2
LA16c-381G6.1
PIK3AP1
GLRX
MYO1F
IL4I1
DNAJB9
PRDM1
GSTA4
FAM107B
CYP11B2
P2RY6

RAC2
SLC7A7
HLF
KAT2B
HSD11B1
FAM84A
APOL6
BET1L
NME4
ERV9-1
LILRB1
MOGS
PLVAP
GPSM3
SHC1
MAF
GRAMD2
SDF4
SLC7A5
PAG1
TCIRG1
ASNS
HERPUD1
CRYBG3
ERP29
NMU

SPCS3
EFS
P2RY13
SRM
CCM2
EDEM1
GMFG
GPX7
WNT2
OSBPL6
FUOM
MEI1
CCR1
C4orf48
HSPA13
FPR1
LIN7C
MIAT
RRAGD
CXCR4
KRT15
LIME1
KLF8
DLX3
PROCR
RAB30

CXCL14
CHID1
SLC38A5
SERINC5
LOC100505664
SUSD4
FERMT3
TNFRSF1B
KLHL6
VAV3
ANKRD29
BMF
LANCL3
IRX4
IL2RG
GBP6
SIL1
CILP
TMEM176B
FUT8
UBE2J1
TRAPPC6A
PCDH17
GPR65
PTPN6
MEF2C

STXBP3
 MNDA
 CSF3R
 SEL1L3
 ANKRD36BP2
 PIK3CG
 STAP1
 LY96
 PAX9
 CD180
 SDF2L1
 LOC80154
 LOC101929272
 ADAM28

Table S7. GO enrichment results based on 278 PRG pattern-related DEGs

ONTOLOGY	ID	Description	Gene	Ratic	BgRatio	pvalue	p.adjust	qvalue	geneID
BP	GO:0070661	leukocyte proliferation	21/227		318/18723	3.37E-10	4.64E-07	4.04E-07	ERBB2/CD
BP	GO:0046651	lymphocyte proliferation	20/227		288/18723	3.75E-10	4.64E-07	4.04E-07	ERBB2/CD
BP	GO:0032943	mononuclear cell proliferation	20/227		291/18723	4.50E-10	4.64E-07	4.04E-07	ERBB2/CD
BP	GO:1903131	mononuclear cell differentiation	22/227		426/18723	1.22E-08	8.18E-06	7.12E-06	SLAMF6/E
BP	GO:0002460	adaptive immune response based on somatic rec	20/227		356/18723	1.44E-08	8.18E-06	7.12E-06	SLAMF6/C
BP	GO:0050670	regulation of lymphocyte proliferation	16/227		225/18723	1.64E-08	8.18E-06	7.12E-06	ERBB2/CD
BP	GO:0032944	regulation of mononuclear cell proliferation	16/227		227/18723	1.85E-08	8.18E-06	7.12E-06	ERBB2/CD

Table S8. KEGG enrichment results based on 278 PRG pattern-related DEGs

ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
hsa04061	Interaction with cytokine and chemokine signaling pathway	9/127	100/8159	2.33E-05	0.005204513	0.004869719	CCR10/IL24/CCR1/CXCR4/CXCL14/TNFRSF19/IL24/IL1B/IFNAR2/CCR1/CXCR4/CD19/PIK3AP1/RAC2/LILRB1/VAV3/PTK2B/CD3E/CD8A/CD19/UNG/IL2RG	9
hsa04062	Chemokine signaling pathway	12/127	192/8159	4.13E-05	0.005204513	0.004869719	CCR10/IL24/CCR1/CXCR4/CXCL14/TNFRSF19/IL24/IL1B/IFNAR2/CCR1/CXCR4/CD19/PIK3AP1/RAC2/LILRB1/VAV3/PTK2B/CD3E/CD8A/CD19/UNG/IL2RG	12
hsa04060	Chemokine-cytokine receptor interaction	14/127	295/8159	0.0001874	0.014151452	0.013241125	TNFRSF19/IL24/IL1B/IFNAR2/CCR1/CXCR4/CD19/PIK3AP1/RAC2/LILRB1/VAV3/PTK2B/CD3E/CD8A/CD19/UNG/IL2RG	14
hsa04662	Thyroid hormone receptor signaling pathway	7/127	82/8159	0.0002708	0.014151452	0.013241125	CD19/PIK3AP1/RAC2/LILRB1/VAV3/PTK2B/CD3E/CD8A/CD19/UNG/IL2RG	7
hsa05340	Primary immunodeficiency	5/127	38/8159	0.0002808	0.014151452	0.013241125	CD3E/CD8A/CD19/UNG/IL2RG	5
hsa03250	Viral life cycle - HIV-1	6/127	63/8159	0.0004155	0.017450354	0.016327817	CCR5/ELL/VPS4B/KAT2B/CXCR4/SERINC5/CD19/PIK3AP1/RAC2/LILRB1/VAV3/PTK2B/CD3E/CD8A/CD19/UNG/IL2RG	6
hsa04640	Hematopoietic cell lineage	7/127	99/8159	0.0008527	0.030697867	0.028723151	CD19/PIK3AP1/RAC2/LILRB1/VAV3/PTK2B/CD3E/CD8A/CD19/UNG/IL2RG	7

Table S9. The 3 distinct gene patterns based on 278 PRG pattern-related DEGs.

ID	gene subtype
GSM261086	gene cluster A
GSM261087	gene cluster B
GSM261089	gene cluster B
GSM261090	gene cluster C
GSM261092	gene cluster A
GSM261093	gene cluster B
GSM261094	gene cluster B
GSM261095	gene cluster B
GSM261097	gene cluster C
GSM261098	gene cluster C
GSM261100	gene cluster C
GSM261101	gene cluster A
GSM261103	gene cluster A

GSM261104	gene cluster A
GSM261105	gene cluster A
GSM261106	gene cluster A
GSM261107	gene cluster A
GSM261108	gene cluster A
GSM261110	gene cluster A
GSM261111	gene cluster A
GSM261112	gene cluster A
GSM261114	gene cluster C
GSM261115	gene cluster C
GSM261118	gene cluster A
GSM261119	gene cluster A
GSM261120	gene cluster C
GSM261121	gene cluster A
GSM261123	gene cluster B
GSM261124	gene cluster B
GSM261125	gene cluster C
GSM261126	gene cluster C
GSM261128	gene cluster C
GSM261129	gene cluster B
GSM261130	gene cluster A
GSM261131	gene cluster A
GSM261132	gene cluster A
GSM261133	gene cluster A
GSM261135	gene cluster B
GSM261136	gene cluster C

GSM261139	gene cluster A
GSM261140	gene cluster A
GSM261141	gene cluster A
GSM261142	gene cluster A
GSM261144	gene cluster B
GSM261145	gene cluster C
GSM261147	gene cluster B
GSM261148	gene cluster A
GSM261149	gene cluster A
GSM261150	gene cluster A
GSM261152	gene cluster B
GSM261153	gene cluster A
GSM261155	gene cluster C
GSM261156	gene cluster C
GSM261157	gene cluster A
GSM261158	gene cluster A
GSM261160	gene cluster A
GSM261161	gene cluster A
GSM261163	gene cluster A
GSM261164	gene cluster A
GSM261166	gene cluster A
GSM261167	gene cluster C
GSM261169	gene cluster A
GSM261170	gene cluster A
GSM261172	gene cluster C
GSM261173	gene cluster C

GSM261175	gene cluster C
GSM261176	gene cluster C
GSM261178	gene cluster B
GSM261179	gene cluster B
GSM261180	gene cluster C
GSM261181	gene cluster A
GSM261182	gene cluster B
GSM261183	gene cluster C
GSM261185	gene cluster B
GSM261186	gene cluster C
GSM261187	gene cluster A
GSM261189	gene cluster C
GSM261190	gene cluster B
GSM261191	gene cluster B
GSM261192	gene cluster B
GSM261194	gene cluster C
GSM261195	gene cluster C
GSM261197	gene cluster C
GSM261198	gene cluster C
GSM261200	gene cluster C
GSM261201	gene cluster C
GSM261203	gene cluster C
GSM261204	gene cluster C
GSM261207	gene cluster A
GSM261208	gene cluster C
GSM261209	gene cluster A

GSM261210	gene cluster C
GSM261211	gene cluster A
GSM261212	gene cluster A
GSM261213	gene cluster B
GSM261214	gene cluster A
GSM261215	gene cluster B
GSM261216	gene cluster B
GSM261218	gene cluster C
GSM261219	gene cluster C
GSM261221	gene cluster B
GSM261222	gene cluster B
GSM261224	gene cluster B
GSM261225	gene cluster B
GSM261227	gene cluster B
GSM261228	gene cluster B
GSM261230	gene cluster B
GSM261231	gene cluster B
GSM261232	gene cluster B
GSM261233	gene cluster B
GSM261235	gene cluster B
GSM261236	gene cluster B
GSM261238	gene cluster C
GSM261239	gene cluster B
GSM261241	gene cluster B
GSM261242	gene cluster B
GSM261244	gene cluster B

GSM261245	gene cluster B
GSM261247	gene cluster C
GSM261248	gene cluster C
GSM261250	gene cluster C
GSM261251	gene cluster B
GSM261252	gene cluster C
GSM261253	gene cluster C
GSM261255	gene cluster B
GSM261256	gene cluster A
GSM261258	gene cluster A
GSM261259	gene cluster C
GSM261260	gene cluster C
GSM261261	gene cluster C
GSM261262	gene cluster C
GSM261263	gene cluster C
GSM261264	gene cluster C
GSM261265	gene cluster C
GSM261267	gene cluster C
GSM261268	gene cluster B
GSM261269	gene cluster B
GSM261270	gene cluster B
GSM261271	gene cluster B
GSM261273	gene cluster B
GSM261274	gene cluster B
GSM261275	gene cluster B
GSM261276	gene cluster C

GSM261278	gene cluster A
GSM261279	gene cluster A
GSM261281	gene cluster B
GSM261282	gene cluster B
GSM261284	gene cluster C
GSM261285	gene cluster B
GSM261287	gene cluster B
GSM261288	gene cluster B
GSM261289	gene cluster B
GSM261290	gene cluster B
GSM261291	gene cluster B
GSM261292	gene cluster B
GSM261294	gene cluster C
GSM261295	gene cluster B
GSM261297	gene cluster C
GSM261298	gene cluster B
GSM261299	gene cluster B
GSM261300	gene cluster B
GSM261301	gene cluster C
GSM261302	gene cluster C
GSM261304	gene cluster C
GSM261305	gene cluster B
GSM261307	gene cluster C
GSM261308	gene cluster C
GSM261310	gene cluster B
GSM261311	gene cluster B

GSM261312	gene cluster A
GSM261313	gene cluster A
GSM261315	gene cluster B
GSM261316	gene cluster C
GSM261318	gene cluster B
GSM261319	gene cluster C
GSM261321	gene cluster B
GSM261322	gene cluster B
GSM261324	gene cluster C
GSM261325	gene cluster C
GSM261327	gene cluster C
GSM261328	gene cluster C
GSM261330	gene cluster B
GSM261331	gene cluster C
GSM404005	gene cluster A
GSM404006	gene cluster B
GSM404008	gene cluster C
GSM404009	gene cluster C
GSM404011	gene cluster A
GSM404012	gene cluster C
GSM404014	gene cluster C
GSM404015	gene cluster C
GSM404018	gene cluster A
GSM404019	gene cluster C
GSM404020	gene cluster A
GSM404021	gene cluster C

GSM404022	gene cluster C
GSM404023	gene cluster C
GSM404024	gene cluster A
GSM404026	gene cluster A
GSM404027	gene cluster A
GSM404029	gene cluster C
GSM404030	gene cluster C
GSM404032	gene cluster A
GSM404033	gene cluster A
GSM404034	gene cluster B
GSM404035	gene cluster B
GSM404037	gene cluster C
GSM404038	gene cluster C
GSM404040	gene cluster C
GSM404041	gene cluster A
GSM404043	gene cluster A
GSM404044	gene cluster A
GSM404045	gene cluster A
GSM404046	gene cluster A
GSM404047	gene cluster A
GSM404048	gene cluster A
GSM404050	gene cluster A
GSM404051	gene cluster A
GSM404052	gene cluster A
GSM404055	gene cluster A
GSM404056	gene cluster A

GSM404057	gene cluster C
GSM404058	gene cluster A
GSM404060	gene cluster B
GSM404061	gene cluster B
GSM404062	gene cluster C
GSM404063	gene cluster C
GSM404065	gene cluster C
GSM404066	gene cluster C
GSM404067	gene cluster A
GSM404068	gene cluster A
GSM404069	gene cluster A
GSM404070	gene cluster A
GSM404072	gene cluster A
GSM404073	gene cluster C
GSM404076	gene cluster A
GSM404077	gene cluster A
GSM404078	gene cluster A
GSM404079	gene cluster A
GSM404081	gene cluster A
GSM404082	gene cluster A
GSM404083	gene cluster A
GSM404084	gene cluster A
GSM404086	gene cluster B
GSM404087	gene cluster A
GSM404089	gene cluster C
GSM404090	gene cluster C

GSM404091	gene cluster A
GSM404092	gene cluster A
GSM404094	gene cluster A
GSM404095	gene cluster A
GSM404097	gene cluster A
GSM404098	gene cluster A
GSM404100	gene cluster A
GSM404101	gene cluster C
GSM404103	gene cluster A
GSM404104	gene cluster A
GSM404106	gene cluster C
GSM404107	gene cluster C
GSM404109	gene cluster B
GSM404110	gene cluster B
GSM404111	gene cluster C
GSM404112	gene cluster A
GSM404113	gene cluster B
GSM404114	gene cluster C
GSM404116	gene cluster A
GSM404118	gene cluster C
GSM404119	gene cluster B
GSM404120	gene cluster B
GSM404121	gene cluster B
GSM404123	gene cluster C
GSM404124	gene cluster C
GSM404126	gene cluster C

GSM404127	gene cluster C
GSM404129	gene cluster C
GSM404130	gene cluster C
GSM404132	gene cluster C
GSM404133	gene cluster C
GSM404135	gene cluster A
GSM404136	gene cluster C
GSM404137	gene cluster A
GSM404138	gene cluster A
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GSM404140	gene cluster A
GSM404141	gene cluster B
GSM404142	gene cluster A
GSM404144	gene cluster C
GSM404145	gene cluster C
GSM404147	gene cluster B
GSM404148	gene cluster C
GSM404150	gene cluster B
GSM404151	gene cluster B
GSM404153	gene cluster B
GSM404154	gene cluster B
GSM404156	gene cluster A
GSM404157	gene cluster B
GSM404158	gene cluster B
GSM404159	gene cluster B
GSM404161	gene cluster B

GSM404162	gene cluster B
GSM404164	gene cluster C
GSM404165	gene cluster C
GSM404167	gene cluster B
GSM404168	gene cluster B
GSM404170	gene cluster B
GSM404171	gene cluster B
GSM404173	gene cluster C
GSM404174	gene cluster C
GSM404176	gene cluster C
GSM404177	gene cluster B
GSM404178	gene cluster C
GSM404179	gene cluster C
GSM404181	gene cluster B
GSM404182	gene cluster A
GSM404184	gene cluster C
GSM404185	gene cluster C
GSM404186	gene cluster C
GSM404187	gene cluster C
GSM404188	gene cluster C
GSM404189	gene cluster C
GSM404191	gene cluster C
GSM404192	gene cluster C
GSM404193	gene cluster B
GSM404194	gene cluster B
GSM404196	gene cluster B

GSM404197	gene cluster B
GSM404198	gene cluster B
GSM404199	gene cluster C
GSM404201	gene cluster A
GSM404202	gene cluster A
GSM404204	gene cluster B
GSM404205	gene cluster B
GSM404207	gene cluster B
GSM404208	gene cluster B
GSM404209	gene cluster B
GSM404210	gene cluster B
GSM404211	gene cluster B
GSM404212	gene cluster B
GSM404213	gene cluster C
GSM404214	gene cluster B
GSM404216	gene cluster C
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GSM404218	gene cluster B
GSM404219	gene cluster B
GSM404220	gene cluster C
GSM404221	gene cluster C
GSM404223	gene cluster C
GSM404224	gene cluster B
GSM404226	gene cluster C
GSM404227	gene cluster C
GSM404229	gene cluster B

GSM404230	gene cluster B
GSM404231	gene cluster B
GSM404232	gene cluster C
GSM404234	gene cluster B
GSM404235	gene cluster C
GSM404237	gene cluster B
GSM404238	gene cluster B
GSM404240	gene cluster C
GSM404241	gene cluster C
GSM404243	gene cluster C
GSM404244	gene cluster C
GSM404246	gene cluster B
GSM404247	gene cluster C
GSM404249	gene cluster B
GSM404250	gene cluster B
GSM404252	gene cluster C
GSM404253	gene cluster C
GSM404254	gene cluster C
GSM404255	gene cluster B
GSM404256	gene cluster C
GSM404257	gene cluster B
GSM404258	gene cluster B
GSM404259	gene cluster B
GSM404261	gene cluster C
GSM404262	gene cluster C
GSM404263	gene cluster B

GSM404264	gene cluster B
GSM404265	gene cluster C
GSM404266	gene cluster C
GSM404268	gene cluster B
GSM404269	gene cluster B
GSM404271	gene cluster B
GSM404272	gene cluster B
GSM404274	gene cluster B
GSM404275	gene cluster C
GSM404276	gene cluster B
GSM404277	gene cluster B
GSM404278	gene cluster C
GSM404279	gene cluster C
GSM404280	gene cluster B
GSM404281	gene cluster B
GSM404282	gene cluster B
GSM404283	gene cluster B
GSM404285	gene cluster B
GSM404286	gene cluster B
GSM404287	gene cluster B
GSM404288	gene cluster B
GSM404289	gene cluster B
GSM404290	gene cluster B
GSM404291	gene cluster B
GSM404292	gene cluster B
GSM404293	gene cluster B

GSM404294	gene cluster C
GSM404295	gene cluster B
GSM404296	gene cluster B
GSM404297	gene cluster B
GSM404298	gene cluster B
GSM404299	gene cluster C
GSM404300	gene cluster B
GSM404301	gene cluster B
GSM404302	gene cluster C
GSM404303	gene cluster C
GSM404304	gene cluster C
GSM404305	gene cluster C
GSM404306	gene cluster C
GSM404307	gene cluster C
GSM404308	gene cluster B
GSM404309	gene cluster C
GSM404310	gene cluster B
GSM404311	gene cluster C
GSM404312	gene cluster B
GSM404313	gene cluster C
GSM404314	gene cluster C