

Supplementary Table 9. Correlation of PRPF3 with various immune signatures.

marker gene	Class	None adjusted		Tumor purity adjusted	
		Correlation coefficient	P-value	Correlation coefficient	P-value
CCL2	chemokine	-0.1523	4.23E-03	-0.0963	7.27E-02
CCL3	chemokine	-0.0882	9.88E-02	-0.0191	7.23E-01
CCL4	chemokine	-0.1020	5.61E-02	-0.0193	7.19E-01
CCL5	chemokine	-0.1204	2.41E-02	-0.0480	3.72E-01
CCL7	chemokine	-0.0840	1.16E-01	-0.0431	4.23E-01
CCL8	chemokine	-0.0725	1.75E-01	-0.0247	6.46E-01
CCL11	chemokine	-0.0550	3.04E-01	-0.0004	9.93E-01
CCL13	chemokine	-0.0874	1.02E-01	-0.0202	7.07E-01
CCL14	chemokine	-0.3149	1.62E-09	-0.3120	2.70E-09
CCL15	chemokine	0.0382	4.76E-01	0.0090	8.68E-01
CCL16	chemokine	-0.3167	1.28E-09	-0.3306	2.55E-10
CCL17	chemokine	-0.0368	4.92E-01	0.0327	5.43E-01
CCL18	chemokine	-0.1415	7.94E-03	-0.0889	9.77E-02
CCL19	chemokine	-0.0462	3.89E-01	0.0090	8.67E-01
CCL20	chemokine	0.1877	4.06E-04	0.2188	3.84E-05
CCL21	chemokine	-0.0931	8.15E-02	-0.0494	3.58E-01
CCL22	chemokine	-0.1249	1.92E-02	-0.0621	2.48E-01
CCL23	chemokine	-0.1505	4.72E-03	-0.1071	4.59E-02
CCL24	chemokine	-0.0808	1.31E-01	-0.0472	3.80E-01
CCL25	chemokine	0.1248	1.93E-02	0.1203	2.49E-02
CCL26	chemokine	0.1730	1.14E-03	0.2174	4.33E-05
CCL27	chemokine	0.1678	1.61E-03	0.1777	8.68E-04
CCL28	chemokine	0.0723	1.76E-01	0.0757	1.59E-01
CX3CL1	chemokine	-0.2139	5.35E-05	-0.2003	1.69E-04
CXCL1	chemokine	0.0470	3.80E-01	0.0979	6.81E-02
CXCL2	chemokine	-0.1421	7.65E-03	-0.1147	3.25E-02

CXCL3	chemokine	0.0707	1.86E-01	0.1257	1.89E-02
CXCL5	chemokine	0.0640	2.32E-01	0.1099	4.04E-02
CXCL6	chemokine	-0.0638	2.33E-01	-0.0230	6.69E-01
CXCL9	chemokine	-0.0535	3.18E-01	0.0093	8.63E-01
CXCL10	chemokine	-0.0535	3.18E-01	-0.0027	9.61E-01
CXCL11	chemokine	-0.0706	1.87E-01	-0.0185	7.31E-01
CXCL12	chemokine	-0.1784	7.84E-04	-0.1356	1.13E-02
CXCL13	chemokine	0.0582	2.77E-01	0.1186	2.69E-02
CXCL14	chemokine	-0.0705	1.88E-01	-0.0287	5.93E-01
CXCL16	chemokine	0.0088	8.69E-01	0.0330	5.39E-01
CXCL17	chemokine	0.0627	2.41E-01	0.0810	1.31E-01
XCL1	chemokine	0.0367	4.93E-01	0.0992	6.46E-02
XCL2	chemokine	-0.0189	7.24E-01	0.0503	3.50E-01
CCR1	receptor	-0.1671	1.68E-03	-0.0996	6.36E-02
CCR2	receptor	-0.1156	3.03E-02	-0.0454	3.99E-01
CCR3	receptor	0.0780	1.45E-01	0.1181	2.76E-02
CCR4	receptor	-0.1389	9.19E-03	-0.0907	9.13E-02
CCR5	receptor	-0.0790	1.40E-01	0.0154	7.75E-01
CCR6	receptor	0.1354	1.11E-02	0.1725	1.23E-03
CCR7	receptor	-0.0941	7.82E-02	-0.0267	6.19E-01
CCR8	receptor	-0.0200	7.08E-01	0.0438	4.15E-01
CCR9	receptor	-0.0387	4.69E-01	-0.0066	9.02E-01
CCR10	receptor	0.0607	2.57E-01	0.0900	9.38E-02
CXCR1	receptor	-0.1047	5.00E-02	-0.0748	1.64E-01
CXCR2	receptor	-0.0767	1.51E-01	-0.0334	5.34E-01
CXCR3	receptor	-0.0428	4.24E-01	0.0471	3.81E-01
CXCR4	receptor	-0.0025	9.62E-01	0.0912	8.95E-02
CXCR5	receptor	0.0022	9.67E-01	0.0718	1.82E-01
CXCR6	receptor	-0.0798	1.36E-01	0.0047	9.30E-01

XCR1	receptor	-0.0976	6.78E-02	-0.0446	4.05E-01
CX3CR1	receptor	-0.1435	7.08E-03	-0.1080	4.34E-02
B2M	MHC	-0.2467	2.91E-06	-0.2118	6.53E-05
HLA-A	MHC	-0.0877	1.01E-01	-0.0417	4.37E-01
HLA-B	MHC	-0.1148	3.15E-02	-0.0678	2.06E-01
HLA-C	MHC	-0.1371	1.01E-02	-0.1001	6.14E-02
HLA-DMA	MHC	-0.0695	1.94E-01	-0.0043	9.35E-01
HLA-DMB	MHC	-0.0692	1.96E-01	0.0169	7.53E-01
HLA-DOA	MHC	-0.1057	4.78E-02	-0.0259	6.29E-01
HLA-DOB	MHC	0.0488	3.62E-01	0.1353	1.13E-02
HLA-DPA1	MHC	-0.1399	8.66E-03	-0.0697	1.93E-01
HLA-DPB1	MHC	-0.1093	4.07E-02	-0.0323	5.47E-01
HLA-DQA1	MHC	-0.0808	1.31E-01	-0.0047	9.30E-01
HLA-DQA2	MHC	-0.0006	9.91E-01	0.0772	1.49E-01
HLA-DQB1	MHC	-0.0946	7.67E-02	-0.0230	6.67E-01
HLA-DRA	MHC	-0.1168	2.87E-02	-0.0461	3.90E-01
HLA-DRB1	MHC	-0.1109	3.79E-02	-0.0458	3.93E-01
HLA-E	MHC	-0.2333	1.00E-05	-0.1968	2.12E-04
HLA-F	MHC	-0.0670	2.11E-01	-0.0194	7.17E-01
HLA-G	MHC	-0.0998	6.19E-02	-0.0682	2.03E-01
TAP1	MHC	0.0890	9.58E-02	0.1562	3.38E-03
TAP2	MHC	-0.0098	8.54E-01	0.0486	3.65E-01
TAPBP	MHC	-0.0772	1.49E-01	-0.0418	4.35E-01
ADORA2A	Immunoinhibitor	0.1235	2.07E-02	0.1719	1.24E-03
BTLA	Immunoinhibitor	-0.0500	3.51E-01	0.0276	6.07E-01
CD160	Immunoinhibitor	0.0574	2.84E-01	0.1050	4.96E-02
CD244	Immunoinhibitor	-0.1133	3.38E-02	-0.0554	3.01E-01
CD274	Immunoinhibitor	-0.1401	8.57E-03	-0.0897	9.40E-02
CD96	Immunoinhibitor	-0.1295	1.52E-02	-0.0568	2.90E-01

CSF1R	Immunoinhibitor	-0.1458	6.20E-03	-0.0746	1.64E-01
CTLA4	Immunoinhibitor	0.0755	1.58E-01	0.1751	1.01E-03
HAVCR2	Immunoinhibitor	-0.0969	6.99E-02	-0.0108	8.40E-01
IDO1	Immunoinhibitor	-0.0184	7.31E-01	0.0344	5.21E-01
IL10	Immunoinhibitor	-0.1173	2.79E-02	-0.0503	3.48E-01
IL10RB	Immunoinhibitor	0.0618	2.48E-01	0.0772	1.49E-01
KDR	Immunoinhibitor	-0.2891	3.48E-08	-0.2781	1.23E-07
KIR2DL1	Immunoinhibitor	-0.0627	2.42E-01	-0.0562	2.94E-01
KIR2DL3	Immunoinhibitor	-0.0680	2.04E-01	-0.0388	4.70E-01
LAG3	Immunoinhibitor	0.0527	3.24E-01	0.1163	2.96E-02
LGALS9	Immunoinhibitor	-0.0109	8.39E-01	0.0772	1.49E-01
PDCD1	Immunoinhibitor	0.0514	3.37E-01	0.1319	1.35E-02
PDCD1LG2	Immunoinhibitor	-0.1893	3.61E-04	-0.1356	1.11E-02
PVRL2	Immunoinhibitor	0.0715	1.81E-01	0.0649	2.26E-01
TGFB1	Immunoinhibitor	-0.0548	3.06E-01	-0.0022	9.67E-01
TGFBR1	Immunoinhibitor	0.0739	1.67E-01	0.1164	2.95E-02
TIGIT	Immunoinhibitor	-0.0336	5.30E-01	0.0568	2.89E-01
VTCN1	Immunoinhibitor	0.0275	6.08E-01	0.0659	2.18E-01
C10orf54	Immunostimulator	-0.1008	5.93E-02	-0.0466	3.84E-01
CD27	Immunostimulator	-0.0050	9.26E-01	0.0874	1.03E-01
CD276	Immunostimulator	0.1045	5.04E-02	0.1336	1.24E-02
CD28	Immunostimulator	-0.1067	4.59E-02	-0.0379	4.80E-01
CD40	Immunostimulator	-0.1267	1.76E-02	-0.0933	8.14E-02
CD40LG	Immunostimulator	-0.1460	6.13E-03	-0.0879	1.01E-01
CD48	Immunostimulator	-0.1062	4.69E-02	-0.0248	6.44E-01
CD70	Immunostimulator	-0.0018	9.74E-01	0.0865	1.06E-01
CD80	Immunostimulator	-0.0329	5.39E-01	0.0491	3.60E-01
CD86	Immunostimulator	-0.1016	5.73E-02	-0.0127	8.12E-01
CXCL12	Immunostimulator	-0.1784	7.84E-04	-0.1372	1.02E-02

CXCR4	Immunostimulator	-0.0025	9.62E-01	0.0847	1.14E-01
ENTPD1	Immunostimulator	-0.0342	5.23E-01	0.0334	5.33E-01
HHLA2	Immunostimulator	0.0811	1.29E-01	0.1092	4.12E-02
ICOS	Immunostimulator	0.0203	7.05E-01	0.1211	2.35E-02
ICOSLG	Immunostimulator	-0.2541	1.41E-06	-0.2452	3.46E-06
IL2RA	Immunostimulator	-0.0240	6.54E-01	0.0742	1.66E-01
IL6	Immunostimulator	-0.1381	9.58E-03	-0.0852	1.12E-01
IL6R	Immunostimulator	0.0118	8.26E-01	-0.0076	8.88E-01
KLRC1	Immunostimulator	-0.0973	6.86E-02	-0.0478	3.72E-01
KLRK1	Immunostimulator	-0.1338	1.21E-02	-0.0723	1.77E-01
LTA	Immunostimulator	0.0212	6.93E-01	0.1270	1.75E-02
MICB	Immunostimulator	0.1305	1.44E-02	0.1769	8.90E-04
NT5E	Immunostimulator	-0.0227	6.72E-01	-0.0163	7.61E-01
PVR	Immunostimulator	-0.0438	4.14E-01	-0.0653	2.23E-01
RAET1E	Immunostimulator	0.0041	9.39E-01	0.0232	6.65E-01
TMEM173	Immunostimulator	-0.1723	1.19E-03	-0.1165	2.93E-02
TMIGD2	Immunostimulator	-0.1258	1.84E-02	-0.0773	1.49E-01
TNFRSF13B	Immunostimulator	0.0333	5.34E-01	0.1043	5.12E-02
TNFRSF13C	Immunostimulator	0.1302	1.46E-02	0.1955	2.34E-04
TNFRSF14	Immunostimulator	-0.0725	1.76E-01	-0.0385	4.73E-01
TNFRSF17	Immunostimulator	-0.0347	5.17E-01	0.0390	4.67E-01
TNFRSF18	Immunostimulator	0.0829	1.21E-01	0.1717	1.26E-03
TNFRSF25	Immunostimulator	0.1293	1.53E-02	0.1654	1.90E-03
TNFRSF4	Immunostimulator	0.1376	9.87E-03	0.1928	2.84E-04
TNFRSF8	Immunostimulator	-0.0503	3.48E-01	0.0490	3.61E-01
TNFRSF9	Immunostimulator	0.0102	8.49E-01	0.0685	2.01E-01
TNFSF13	Immunostimulator	-0.1781	8.01E-04	-0.1350	1.15E-02
TNFSF13B	Immunostimulator	-0.0846	1.14E-01	-0.0028	9.58E-01
TNFSF14	Immunostimulator	0.0940	7.87E-02	0.1128	3.49E-02

TNFSF15	Immunostimulator	0.0261	6.25E-01	0.0663	2.16E-01
TNFSF18	Immunostimulator	-0.0601	2.61E-01	-0.0331	5.37E-01
TNFSF4	Immunostimulator	0.2993	1.07E-08	0.3064	4.84E-09
TNFSF9	Immunostimulator	0.1600	2.65E-03	0.2116	6.59E-05
ULBP1	Immunostimulator	0.1350	1.13E-02	0.1625	2.30E-03
ADRM1	Activated CD8 T cell	0.0434	4.17E-01	0.0510	3.42E-01
AHSA1	Activated CD8 T cell	0.0464	3.86E-01	0.0498	3.53E-01
C1GALT1C1	Activated CD8 T cell	-0.0042	9.38E-01	0.0134	8.03E-01
CCT6B	Activated CD8 T cell	-0.2883	3.82E-08	-0.3117	2.53E-09
CD37	Activated CD8 T cell	-0.0824	1.23E-01	0.0095	8.60E-01
CD3D	Activated CD8 T cell	0.0226	6.73E-01	0.1133	3.41E-02
CD3E	Activated CD8 T cell	-0.0931	8.14E-02	-0.0112	8.35E-01
CD3G	Activated CD8 T cell	-0.0688	1.99E-01	0.0126	8.14E-01
CD69	Activated CD8 T cell	-0.1511	4.56E-03	-0.0892	9.56E-02
CD8A	Activated CD8 T cell	-0.0993	6.32E-02	-0.0288	5.91E-01
CETN3	Activated CD8 T cell	0.0194	7.17E-01	0.0206	7.01E-01
CSE1L	Activated CD8 T cell	0.2510	1.91E-06	0.2442	3.78E-06
GEMIN6	Activated CD8 T cell	0.0557	2.98E-01	0.0379	4.80E-01
GNLY	Activated CD8 T cell	-0.0378	4.80E-01	-0.0003	9.95E-01
GPT2	Activated CD8 T cell	-0.2661	4.22E-07	-0.2872	4.52E-08
GZMA	Activated CD8 T cell	-0.1467	5.90E-03	-0.0849	1.13E-01
GZMH	Activated CD8 T cell	-0.1656	1.85E-03	-0.1192	2.57E-02
GZMK	Activated CD8 T cell	-0.1558	3.44E-03	-0.0950	7.60E-02
IL2RB	Activated CD8 T cell	-0.1291	1.55E-02	-0.0558	2.98E-01
LCK	Activated CD8 T cell	-0.0842	1.15E-01	0.0036	9.47E-01
MPZL1	Activated CD8 T cell	0.3774	2.51E-13	0.4119	9.18E-16
NKG7	Activated CD8 T cell	-0.1198	2.47E-02	-0.0651	2.25E-01
PIK3IP1	Activated CD8 T cell	-0.1298	1.49E-02	-0.0972	6.93E-02
PTRH2	Activated CD8 T cell	0.1665	1.74E-03	0.1594	2.78E-03

TIMM13	Activated CD8 T cell	-0.0588	2.72E-01	-0.0703	1.89E-01
ZAP70	Activated CD8 T cell	-0.0428	4.24E-01	0.0398	4.58E-01
ACTN4	Central memory CD8 T	0.0200	7.08E-01	0.0167	7.56E-01
ADAM12	Central memory CD8 T	0.0836	1.18E-01	0.1524	4.27E-03
ADCY9	Central memory CD8 T	-0.1317	1.35E-02	-0.1302	1.48E-02
F13A1	Central memory CD8 T	-0.1228	2.14E-02	-0.0585	2.75E-01
FCER1G	Central memory CD8 T	-0.0687	1.99E-01	0.0184	7.31E-01
FCGR3B	Central memory CD8 T	-0.0510	3.41E-01	-0.0127	8.12E-01
FGF7	Central memory CD8 T	-0.1948	2.41E-04	-0.1586	2.93E-03
FKBP4	Central memory CD8 T	0.0591	2.70E-01	0.0496	3.55E-01
GLUD1	Central memory CD8 T	-0.2082	8.53E-05	-0.2291	1.51E-05
GM2A	Central memory CD8 T	0.0466	3.84E-01	0.0829	1.22E-01
GUSB	Central memory CD8 T	-0.1621	2.31E-03	-0.1644	2.03E-03
IL1RN	Central memory CD8 T	-0.0734	1.70E-01	-0.0650	2.25E-01
NOL11	Central memory CD8 T	0.4122	7.86E-16	0.3962	1.34E-14
NTRK1	Central memory CD8 T	0.0389	4.68E-01	0.0925	8.39E-02
RARA	Central memory CD8 T	0.1511	4.55E-03	0.1363	1.07E-02
RNF128	Central memory CD8 T	-0.1689	1.50E-03	-0.1819	6.27E-04
SIGLEC1	Central memory CD8 T	-0.1521	4.30E-03	-0.0874	1.02E-01
TNFRSF11A	Central memory CD8 T	0.0905	9.04E-02	0.1342	1.20E-02
TOX4	Central memory CD8 T	0.1910	3.19E-04	0.1813	6.54E-04
UBA52	Central memory CD8 T	0.0840	1.16E-01	0.0788	1.41E-01
ULBP1	Central memory CD8 T	0.1350	1.13E-02	0.1625	2.30E-03
ACAP1	Effector memory CD8	-0.0730	1.72E-01	0.0161	7.65E-01
APOL3	Effector memory CD8	-0.0748	1.62E-01	-0.0354	5.09E-01
ARHGAP10	Effector memory CD8	-0.1793	7.40E-04	-0.1390	9.23E-03
ATP10D	Effector memory CD8	-0.0792	1.39E-01	-0.0353	5.10E-01
C3AR1	Effector memory CD8	-0.1005	6.00E-02	-0.0140	7.94E-01
CCR5	Effector memory CD8	-0.0790	1.40E-01	0.0165	7.58E-01

CD160	Effector memory CD8	0.0574	2.84E-01	0.1050	4.96E-02
CD55	Effector memory CD8	-0.0283	5.98E-01	-0.0077	8.86E-01
CFLAR	Effector memory CD8	-0.0568	2.88E-01	-0.0246	6.47E-01
CMKLR1	Effector memory CD8	-0.1315	1.37E-02	-0.0594	2.68E-01
DAPP1	Effector memory CD8	-0.0708	1.86E-01	0.0195	7.17E-01
FCRL6	Effector memory CD8	-0.1781	8.03E-04	-0.1349	1.15E-02
FLT3LG	Effector memory CD8	-0.1174	2.78E-02	-0.0720	1.79E-01
GZMM	Effector memory CD8	-0.1083	4.27E-02	-0.0452	3.99E-01
HAPLN3	Effector memory CD8	0.0078	8.84E-01	0.1115	3.71E-02
HLA-DMB	Effector memory CD8	-0.0692	1.96E-01	0.0169	7.53E-01
HLA-DPA1	Effector memory CD8	-0.1399	8.66E-03	-0.0697	1.93E-01
HLA-DPB1	Effector memory CD8	-0.1093	4.07E-02	-0.0323	5.47E-01
IFI16	Effector memory CD8	-0.0708	1.86E-01	0.0104	8.47E-01
LIME1	Effector memory CD8	-0.1964	2.13E-04	-0.2246	2.23E-05
LTK	Effector memory CD8	-0.0224	6.76E-01	0.0132	8.06E-01
NFKBIA	Effector memory CD8	-0.0905	9.06E-02	-0.0776	1.47E-01
SETD7	Effector memory CD8	-0.3218	6.73E-10	-0.3210	7.84E-10
SIK1	Effector memory CD8	-0.1384	9.44E-03	-0.1501	4.89E-03
TRIB2	Effector memory CD8	-0.0148	7.82E-01	-0.0120	8.23E-01
AIM2	Activated CD4 T cell	0.0519	3.32E-01	0.1657	1.86E-03
BIRC3	Activated CD4 T cell	0.1174	2.78E-02	0.1768	8.95E-04
BRIP1	Activated CD4 T cell	0.1941	2.54E-04	0.1915	3.13E-04
CCL20	Activated CD4 T cell	0.1877	4.06E-04	0.2190	3.59E-05
CCL4	Activated CD4 T cell	-0.1020	5.61E-02	-0.0259	6.29E-01
CCL5	Activated CD4 T cell	-0.1204	2.41E-02	-0.0516	3.35E-01
CCNB1	Activated CD4 T cell	0.3650	1.67E-12	0.3762	3.31E-13
CCR7	Activated CD4 T cell	-0.0941	7.82E-02	-0.0267	6.19E-01
DUSP2	Activated CD4 T cell	-0.0274	6.08E-01	0.0430	4.23E-01
ESCO2	Activated CD4 T cell	0.3049	5.53E-09	0.3218	7.13E-10

ETS1	Activated CD4 T cell	-0.2332	1.02E-05	-0.1945	2.52E-04
EXO1	Activated CD4 T cell	0.4795	1.41E-21	0.4902	1.48E-22
EXOC6	Activated CD4 T cell	0.2337	9.66E-06	0.2355	8.47E-06
IARS	Activated CD4 T cell	0.2431	4.09E-06	0.2496	2.26E-06
ITK	Activated CD4 T cell	-0.1523	4.23E-03	-0.0884	9.87E-02
KIF11	Activated CD4 T cell	0.4089	1.39E-15	0.4189	2.64E-16
KNTC1	Activated CD4 T cell	0.4255	7.19E-17	0.4308	3.02E-17
NUF2	Activated CD4 T cell	0.5126	6.60E-25	0.5176	2.25E-25
PRC1	Activated CD4 T cell	0.3915	2.66E-14	0.3994	7.75E-15
PSAT1	Activated CD4 T cell	-0.0417	4.37E-01	-0.0360	5.02E-01
RGS1	Activated CD4 T cell	0.0037	9.45E-01	0.0929	8.27E-02
RTKN2	Activated CD4 T cell	0.3646	1.79E-12	0.3849	8.36E-14
SAMSN1	Activated CD4 T cell	-0.1064	4.64E-02	-0.0189	7.25E-01
SELL	Activated CD4 T cell	-0.0732	1.71E-01	-0.0034	9.50E-01
TRAT1	Activated CD4 T cell	-0.1266	1.77E-02	-0.0603	2.60E-01
ABHD3	Central memory CD4 T	0.1600	2.64E-03	0.1562	3.39E-03
AHNAK	Central memory CD4 T	-0.0653	2.22E-01	-0.0558	2.98E-01
ANXA2P2	Central memory CD4 T	0.0712	1.83E-01	0.1127	3.51E-02
AQP3	Central memory CD4 T	0.0006	9.91E-01	-0.0011	9.83E-01
ATHL1	Central memory CD4 T	0.0010	9.85E-01	0.0034	9.49E-01
BMI1	Central memory CD4 T	-0.0071	8.94E-01	-0.0159	7.68E-01
BZW2	Central memory CD4 T	0.1441	6.85E-03	0.1497	5.00E-03
CD63	Central memory CD4 T	-0.0214	6.90E-01	-0.0053	9.22E-01
COL4A1	Central memory CD4 T	-0.1194	2.53E-02	-0.0864	1.06E-01
CYLD	Central memory CD4 T	-0.2229	2.50E-05	-0.1922	2.98E-04
ELMO2	Central memory CD4 T	0.0439	4.12E-01	0.0752	1.60E-01
FYN	Central memory CD4 T	-0.3358	1.06E-10	-0.3103	3.00E-09
GLIPR1	Central memory CD4 T	-0.1144	3.21E-02	-0.0411	4.44E-01
GSS	Central memory CD4 T	-0.1226	2.16E-02	-0.1199	2.49E-02

IFITM2	Central memory CD4 T	-0.2071	9.25E-05	-0.1881	4.02E-04
ITGB1	Central memory CD4 T	-0.0724	1.76E-01	-0.0623	2.45E-01
ITGB2	Central memory CD4 T	-0.1039	5.17E-02	-0.0115	8.31E-01
KLF5	Central memory CD4 T	0.2133	5.63E-05	0.2116	6.59E-05
LSP1	Central memory CD4 T	-0.0248	6.43E-01	0.0770	1.50E-01
NDUFB9	Central memory CD4 T	-0.0172	7.48E-01	-0.0287	5.92E-01
PKM2	Central memory CD4 T	0.2230	2.47E-05	0.2894	3.51E-08
SFXN3	Central memory CD4 T	0.0038	9.43E-01	0.0601	2.62E-01
SIRPG	Central memory CD4 T	0.0218	6.84E-01	0.1109	3.82E-02
SMAD4	Central memory CD4 T	0.0663	2.15E-01	0.0696	1.94E-01
STX4	Central memory CD4 T	0.1309	1.41E-02	0.1517	4.45E-03
TRADD	Central memory CD4 T	-0.0821	1.25E-01	-0.0665	2.14E-01
VIM	Central memory CD4 T	-0.1284	1.61E-02	-0.0702	1.90E-01
XRCC6	Central memory CD4 T	0.2489	2.36E-06	0.2521	1.79E-06
ATM	Effector memory CD4	0.0529	3.23E-01	0.0795	1.38E-01
CASP3	Effector memory CD4	0.0527	3.25E-01	0.0808	1.32E-01
CASQ1	Effector memory CD4	0.1262	1.80E-02	0.1484	5.40E-03
CD300E	Effector memory CD4	-0.1406	8.34E-03	-0.0961	7.25E-02
DARS	Effector memory CD4	0.1210	2.34E-02	0.1221	2.24E-02
DOCK9	Effector memory CD4	-0.0892	9.53E-02	-0.0650	2.25E-01
EXOSC9	Effector memory CD4	0.1669	1.70E-03	0.1917	3.10E-04
EZH2	Effector memory CD4	0.4368	8.79E-18	0.4417	3.81E-18
GDE1	Effector memory CD4	-0.2230	2.48E-05	-0.1983	1.89E-04
IL34	cytokine and cytokine re	-0.0274	6.09E-01	0.0312	5.61E-01
NCOA4	Effector memory CD4	-0.1985	1.82E-04	-0.2168	4.30E-05
NEFL	Effector memory CD4	-0.0344	5.21E-01	0.0019	9.72E-01
PDGFRL	Effector memory CD4	0.1669	1.71E-03	0.1819	6.30E-04
PTGS1	Effector memory CD4	-0.0081	8.80E-01	0.0799	1.36E-01
REPS1	Effector memory CD4	0.0577	2.81E-01	0.0762	1.55E-01

SCG2	Effector memory CD4	0.0347	5.17E-01	0.0879	1.01E-01
SDPR	Effector memory CD4	-0.2143	5.18E-05	-0.2094	7.92E-05
SIGLEC14	Effector memory CD4	-0.1073	4.46E-02	-0.0483	3.68E-01
SIGLEC6	Effector memory CD4	-0.0304	5.70E-01	0.0198	7.12E-01
TAL1	Effector memory CD4	-0.2188	3.56E-05	-0.1936	2.69E-04
TFEC	Effector memory CD4	-0.1046	5.02E-02	-0.0173	7.48E-01
TIPIN	Effector memory CD4	0.3645	1.81E-12	0.3781	2.46E-13
TPK1	Effector memory CD4	-0.2495	2.21E-06	-0.2176	4.02E-05
UQCRB	Effector memory CD4	-0.0336	5.31E-01	-0.0461	3.90E-01
USP9Y	Effector memory CD4	-0.0283	5.97E-01	-0.0186	7.28E-01
WIPF1	Effector memory CD4	-0.1186	2.62E-02	-0.0413	4.41E-01
ZCRB1	Effector memory CD4	0.0872	1.03E-01	0.0883	9.90E-02
B3GAT1	T follicular helper cell	0.0912	8.79E-02	0.0998	6.21E-02
CDK5R1	T follicular helper cell	0.2532	1.55E-06	0.2533	1.58E-06
PDCD1	T follicular helper cell	0.0514	3.37E-01	0.1319	1.35E-02
BCL6	T follicular helper cell	0.0004	9.93E-01	-0.0008	9.89E-01
CD200	T follicular helper cell	-0.0938	7.93E-02	-0.0525	3.27E-01
CD83	T follicular helper cell	0.0691	1.97E-01	0.1407	8.38E-03
CD84	T follicular helper cell	-0.1467	5.90E-03	-0.0815	1.28E-01
FGF2	T follicular helper cell	-0.1023	5.55E-02	-0.0863	1.07E-01
GPR18	T follicular helper cell	-0.0863	1.06E-01	-0.0183	7.33E-01
CEBPA	T follicular helper cell	0.1961	2.19E-04	0.1803	7.01E-04
CECR1	T follicular helper cell	-0.2006	1.55E-04	-0.1500	4.92E-03
CLEC10A	T follicular helper cell	-0.0965	7.09E-02	-0.0246	6.46E-01
CLEC4A	T follicular helper cell	-0.0447	4.03E-01	0.0452	3.99E-01
CSF1R	T follicular helper cell	-0.1458	6.20E-03	-0.0746	1.64E-01
CTSS	T follicular helper cell	-0.0043	9.35E-01	0.0804	1.33E-01
DPP4	T follicular helper cell	-0.0804	1.33E-01	-0.0955	7.45E-02
LRRC32	T follicular helper cell	-0.1808	6.65E-04	-0.1479	5.56E-03

MICA	T follicular helper cell	0.1629	2.21E-03	0.1522	4.33E-03
NCAM1	T follicular helper cell	-0.0309	5.64E-01	0.0147	7.85E-01
NRP1	T follicular helper cell	-0.1440	6.90E-03	-0.1279	1.67E-02
PDCD1LG2	T follicular helper cell	-0.1893	3.61E-04	-0.1356	1.11E-02
PDCD6	T follicular helper cell	0.1226	2.16E-02	0.1209	2.37E-02
PRDX1	T follicular helper cell	0.0685	2.00E-01	0.0967	7.07E-02
RAE1	T follicular helper cell	0.3348	1.23E-10	0.3335	1.54E-10
RAET1E	T follicular helper cell	0.0041	9.39E-01	0.0232	6.65E-01
SIGLEC7	T follicular helper cell	-0.1441	6.83E-03	-0.0751	1.61E-01
SIGLEC9	T follicular helper cell	-0.1018	5.67E-02	-0.0191	7.22E-01
TYRO3	T follicular helper cell	0.2739	1.85E-07	0.2885	3.91E-08
CHST12	T follicular helper cell	0.0716	1.81E-01	0.1111	3.77E-02
CLIC3	T follicular helper cell	0.0285	5.94E-01	0.0903	9.17E-02
IVNS1ABP	T follicular helper cell	0.1678	1.60E-03	0.1798	7.25E-04
LGMN	T follicular helper cell	-0.1517	4.40E-03	-0.0955	7.42E-02
ACP5	Gamma delta T cell	-0.0262	6.25E-01	0.0196	7.15E-01
AQP9	Gamma delta T cell	-0.2571	1.05E-06	-0.2913	2.83E-08
BTN3A2	Gamma delta T cell	-0.0810	1.30E-01	-0.0303	5.72E-01
C1orf54	Gamma delta T cell	-0.0024	9.64E-01	0.0715	1.82E-01
CARD8	Gamma delta T cell	0.0706	1.87E-01	0.0850	1.12E-01
CCL18	Gamma delta T cell	-0.1415	7.94E-03	-0.0926	8.37E-02
CD209	Gamma delta T cell	-0.0979	6.69E-02	-0.0369	4.91E-01
CD33	Gamma delta T cell	-0.0918	8.61E-02	-0.0054	9.20E-01
CD36	Gamma delta T cell	-0.1361	1.07E-02	-0.1349	1.15E-02
CDK5	Gamma delta T cell	-0.1028	5.42E-02	-0.1064	4.67E-02
IL10RB	Gamma delta T cell	0.0618	2.48E-01	0.0772	1.49E-01
KLRF1	Gamma delta T cell	-0.1361	1.07E-02	-0.1021	5.64E-02
LGALS1	Gamma delta T cell	-0.0155	7.72E-01	0.0236	6.60E-01
MAPK7	Gamma delta T cell	0.2240	2.28E-05	0.2309	1.28E-05

KLHL7	Gamma delta T cell	0.0690	1.97E-01	0.0545	3.10E-01
KRT80	Gamma delta T cell	0.1435	7.08E-03	0.1829	5.84E-04
LAMC1	Gamma delta T cell	0.2689	3.15E-07	0.2678	3.69E-07
LCORL	Gamma delta T cell	-0.0095	8.59E-01	-0.0009	9.86E-01
LMNB1	Gamma delta T cell	0.3572	5.28E-12	0.3751	3.91E-13
MEIS3P1	Gamma delta T cell	-0.2197	3.29E-05	-0.1872	4.32E-04
MPL	Gamma delta T cell	-0.0983	6.59E-02	-0.0926	8.35E-02
FABP1	Gamma delta T cell	-0.2080	8.66E-05	-0.1994	1.73E-04
FABP5	Gamma delta T cell	0.0812	1.29E-01	0.1460	6.22E-03
FADD	Gamma delta T cell	0.0364	4.96E-01	0.0500	3.51E-01
MFAP3L	Gamma delta T cell	-0.2741	1.82E-07	-0.2645	5.14E-07
MINPP1	Gamma delta T cell	-0.1670	1.69E-03	-0.1743	1.06E-03
RPS24	Gamma delta T cell	0.1326	1.29E-02	0.1239	2.04E-02
RPS7	Gamma delta T cell	0.1639	2.07E-03	0.1503	4.85E-03
RPS9	Gamma delta T cell	0.0715	1.82E-01	0.0711	1.84E-01
DBNL	Gamma delta T cell	-0.0277	6.05E-01	-0.0034	9.50E-01
CCL13	Gamma delta T cell	-0.0874	1.02E-01	-0.0245	6.47E-01
CD70	Type 1 T helper cell	-0.0018	9.74E-01	0.0865	1.06E-01
TBX21	Type 1 T helper cell	-0.1340	1.20E-02	-0.0763	1.54E-01
ADAM8	Type 1 T helper cell	0.0767	1.52E-01	0.1570	3.22E-03
AHCYL2	Type 1 T helper cell	-0.1757	9.46E-04	-0.1862	4.64E-04
ALCAM	Type 1 T helper cell	-0.0376	4.83E-01	-0.0501	3.50E-01
B3GALNT1	Type 1 T helper cell	0.1609	2.50E-03	0.2106	7.20E-05
BBS12	Type 1 T helper cell	-0.0091	8.65E-01	0.0408	4.46E-01
BST1	Type 1 T helper cell	-0.0576	2.82E-01	-0.0143	7.90E-01
CD151	Type 1 T helper cell	-0.0274	6.09E-01	-0.0138	7.97E-01
CD47	Type 1 T helper cell	0.0072	8.93E-01	0.0349	5.16E-01
CD48	Type 1 T helper cell	-0.1062	4.69E-02	-0.0248	6.44E-01
CD52	Type 1 T helper cell	-0.0714	1.82E-01	0.0150	7.80E-01

CD53	Type 1 T helper cell	-0.1088	4.16E-02	-0.0165	7.58E-01
CD59	Type 1 T helper cell	-0.1626	2.24E-03	-0.1370	1.03E-02
CD6	Type 1 T helper cell	-0.0676	2.06E-01	0.0202	7.07E-01
CD68	Type 1 T helper cell	-0.2191	3.47E-05	-0.1764	9.18E-04
CD7	Type 1 T helper cell	0.0490	3.60E-01	0.1352	1.13E-02
CD96	Type 1 T helper cell	-0.1295	1.52E-02	-0.0568	2.90E-01
CFHR3	Type 1 T helper cell	-0.2526	1.64E-06	-0.2429	4.29E-06
CHRM3	Type 1 T helper cell	0.0240	6.54E-01	0.0402	4.54E-01
CLEC7A	Type 1 T helper cell	-0.0897	9.33E-02	-0.0022	9.67E-01
COL23A1	Type 1 T helper cell	-0.0937	7.95E-02	-0.0743	1.66E-01
COL4A4	Type 1 T helper cell	-0.1814	6.37E-04	-0.1480	5.52E-03
COL5A3	Type 1 T helper cell	-0.1061	4.69E-02	-0.1036	5.27E-02
DAB1	Type 1 T helper cell	-0.1010	5.87E-02	-0.1142	3.27E-02
DLEU7	Type 1 T helper cell	0.0748	1.62E-01	0.1073	4.48E-02
DOC2B	Type 1 T helper cell	0.0097	8.56E-01	0.0330	5.38E-01
EMP1	Type 1 T helper cell	-0.2527	1.63E-06	-0.2226	2.65E-05
F12	Type 1 T helper cell	-0.2317	1.16E-05	-0.2325	1.11E-05
FURIN	Type 1 T helper cell	-0.0925	8.35E-02	-0.0754	1.59E-01
GAB3	Type 1 T helper cell	-0.1285	1.60E-02	-0.0538	3.15E-01
GATM	Type 1 T helper cell	-0.2524	1.68E-06	-0.2653	4.77E-07
GFPT2	Type 1 T helper cell	-0.0245	6.48E-01	0.0301	5.74E-01
GPR25	Type 1 T helper cell	-0.0560	2.95E-01	-0.0268	6.17E-01
GREM2	Type 1 T helper cell	-0.1656	1.85E-03	-0.1798	7.28E-04
HAVCR1	Type 1 T helper cell	0.0884	9.83E-02	0.1130	3.47E-02
HSD11B1	Type 1 T helper cell	-0.2476	2.66E-06	-0.2541	1.46E-06
HUNK	Type 1 T helper cell	0.2149	4.92E-05	0.2180	3.90E-05
IGF2	Type 1 T helper cell	0.0164	7.60E-01	0.0021	9.68E-01
RCSD1	Type 1 T helper cell	-0.1344	1.17E-02	-0.0660	2.18E-01
RYR1	Type 1 T helper cell	-0.0158	7.68E-01	0.0531	3.22E-01

SAV1	Type 1 T helper cell	-0.2056	1.05E-04	-0.1967	2.13E-04
SELE	Type 1 T helper cell	-0.2871	4.39E-08	-0.2617	6.88E-07
SELP	Type 1 T helper cell	-0.2391	5.89E-06	-0.2076	9.11E-05
SH3KBP1	Type 1 T helper cell	-0.1487	5.25E-03	-0.1173	2.82E-02
SIT1	Type 1 T helper cell	-0.0112	8.34E-01	0.0910	8.92E-02
SLC35B3	Type 1 T helper cell	0.0014	9.79E-01	-0.0135	8.02E-01
SIGLEC10	Type 1 T helper cell	-0.0099	8.53E-01	0.0873	1.03E-01
SKAP1	Type 1 T helper cell	-0.1401	8.57E-03	-0.1035	5.32E-02
THUMPD2	Type 1 T helper cell	0.3504	1.41E-11	0.3418	4.99E-11
TIGIT	Type 1 T helper cell	-0.0336	5.30E-01	0.0568	2.89E-01
ZEB2	Type 1 T helper cell	-0.1821	6.08E-04	-0.1297	1.52E-02
ENC1	Type 1 T helper cell	0.0719	1.79E-01	0.0796	1.37E-01
FAM134B	Type 1 T helper cell	-0.2021	1.38E-04	-0.1955	2.32E-04
FBXO30	Type 1 T helper cell	0.1887	3.80E-04	0.2161	4.58E-05
FCGR2C	Type 1 T helper cell	-0.0734	1.70E-01	-0.0081	8.79E-01
STAC	Type 1 T helper cell	-0.0319	5.51E-01	0.0184	7.32E-01
LTC4S	Type 1 T helper cell	-0.1724	1.18E-03	-0.1375	9.99E-03
MAN1B1	Type 1 T helper cell	0.1187	2.62E-02	0.1315	1.38E-02
MDH1	Type 1 T helper cell	-0.1539	3.86E-03	-0.1575	3.13E-03
MMD	Type 1 T helper cell	0.1977	1.94E-04	0.2294	1.46E-05
RGS16	Type 1 T helper cell	-0.0303	5.72E-01	0.0021	9.68E-01
IL12A	Type 1 T helper cell	0.2515	1.82E-06	0.3056	5.29E-09
P2RX5	Type 1 T helper cell	0.1311	1.40E-02	0.1770	8.79E-04
CD97	Type 1 T helper cell	0.0326	5.43E-01	0.1045	5.08E-02
ITGB4	Type 1 T helper cell	0.0743	1.65E-01	0.0980	6.72E-02
ICAM3	Type 1 T helper cell	-0.2445	3.57E-06	-0.2264	1.90E-05
METRNL	Type 1 T helper cell	-0.0196	7.15E-01	0.0344	5.22E-01
TNFRSF1A	Type 1 T helper cell	-0.1330	1.26E-02	-0.1167	2.90E-02
IRF1	Type 1 T helper cell	0.0257	6.31E-01	0.1074	4.47E-02

HTR2B	Type 1 T helper cell	-0.2965	1.50E-08	-0.2732	2.09E-07
CALD1	Type 1 T helper cell	-0.3581	4.62E-12	-0.3488	1.90E-11
MOCOS	Type 1 T helper cell	-0.2132	5.68E-05	-0.2089	8.25E-05
TRAF3IP2	Type 1 T helper cell	-0.0064	9.04E-01	0.0082	8.78E-01
TLR8	Type 1 T helper cell	-0.1118	3.63E-02	-0.0328	5.41E-01
TRAF1	Type 1 T helper cell	0.0998	6.17E-02	0.1577	3.09E-03
DUSP14	Type 1 T helper cell	-0.0250	6.41E-01	-0.0002	9.98E-01
IL17RA	Type 17 T helper cell	-0.0121	8.21E-01	0.0106	8.43E-01
C2CD4A	Type 17 T helper cell	-0.0536	3.17E-01	-0.0265	6.21E-01
C2CD4B	Type 17 T helper cell	-0.1332	1.25E-02	-0.1054	4.87E-02
CA2	Type 17 T helper cell	-0.2169	4.15E-05	-0.2174	4.11E-05
CCDC65	Type 17 T helper cell	0.0720	1.78E-01	0.0993	6.34E-02
CEACAM3	Type 17 T helper cell	0.0065	9.03E-01	0.0590	2.71E-01
IL17C	Type 17 T helper cell	0.0363	4.98E-01	0.0498	3.53E-01
IL17RC	Type 17 T helper cell	-0.1943	2.51E-04	-0.1941	2.59E-04
IL17RE	Type 17 T helper cell	0.1561	3.37E-03	0.1390	9.20E-03
IL23A	Type 17 T helper cell	-0.0577	2.81E-01	-0.0275	6.08E-01
ILDR1	Type 17 T helper cell	0.1737	1.09E-03	0.1919	3.06E-04
LONRF3	Type 17 T helper cell	-0.0556	2.99E-01	-0.0575	2.84E-01
SH2D6	Type 17 T helper cell	0.0443	4.08E-01	0.0555	3.01E-01
TNIP2	Type 17 T helper cell	-0.0016	9.76E-01	0.0137	7.98E-01
ABCA1	Type 17 T helper cell	-0.0178	7.39E-01	-0.0040	9.40E-01
ABCB1	Type 17 T helper cell	-0.3005	9.27E-09	-0.3009	9.30E-09
ADAMTS12	Type 17 T helper cell	-0.1375	9.92E-03	-0.0971	6.95E-02
ANK1	Type 17 T helper cell	-0.0200	7.09E-01	0.0436	4.16E-01
ANKRD22	Type 17 T helper cell	0.0330	5.38E-01	0.1030	5.43E-02
B3GALT2	Type 17 T helper cell	-0.1122	3.56E-02	-0.0660	2.18E-01
CAMTA1	Type 17 T helper cell	-0.0925	8.34E-02	-0.1017	5.73E-02
CCR9	Type 17 T helper cell	-0.0387	4.69E-01	-0.0049	9.27E-01

CD40	Type 17 T helper cell	-0.1267	1.76E-02	-0.0933	8.14E-02
GPR44	Type 17 T helper cell	0.0385	4.72E-01	0.0259	6.29E-01
IFT80	Type 17 T helper cell	0.1933	2.70E-04	0.2149	5.05E-05
ASB2	Type 2 T helper cell	-0.0257	6.32E-01	0.0636	2.35E-01
CSRP2	Type 2 T helper cell	-0.0217	6.85E-01	-0.0112	8.35E-01
DAPK1	Type 2 T helper cell	0.0326	5.43E-01	0.0324	5.46E-01
DLC1	Type 2 T helper cell	-0.2257	1.97E-05	-0.2253	2.10E-05
DNAJC12	Type 2 T helper cell	-0.0795	1.37E-01	-0.0818	1.27E-01
DUSP6	Type 2 T helper cell	-0.1679	1.60E-03	-0.1473	5.75E-03
GNAI1	Type 2 T helper cell	-0.0268	6.17E-01	-0.0504	3.48E-01
LAMP3	Type 2 T helper cell	0.1309	1.42E-02	0.1855	4.85E-04
NRP2	Type 2 T helper cell	-0.2349	8.66E-06	-0.1981	1.92E-04
OSBPL1A	Type 2 T helper cell	-0.1650	1.93E-03	-0.1464	6.06E-03
PDE4B	Type 2 T helper cell	-0.1400	8.61E-03	-0.0886	9.79E-02
PHLDA1	Type 2 T helper cell	-0.2380	6.55E-06	-0.2253	2.09E-05
PLA2G4A	Type 2 T helper cell	-0.1100	3.94E-02	-0.0368	4.93E-01
RAB27B	Type 2 T helper cell	-0.0193	7.19E-01	0.0098	8.55E-01
RBMS3	Type 2 T helper cell	-0.1895	3.58E-04	-0.1568	3.28E-03
RNF125	Type 2 T helper cell	-0.3492	1.66E-11	-0.3395	6.86E-11
TMPRSS3	Type 2 T helper cell	0.2176	3.92E-05	0.2582	9.75E-07
GATA3	Type 2 T helper cell	-0.1091	4.11E-02	-0.0367	4.94E-01
BIRC5	Type 2 T helper cell	0.4282	4.43E-17	0.4360	1.13E-17
CDC25C	Type 2 T helper cell	0.3943	1.66E-14	0.4036	3.80E-15
CDC7	Type 2 T helper cell	0.3435	3.70E-11	0.3840	9.60E-14
CENPF	Type 2 T helper cell	0.4502	6.38E-19	0.4536	3.64E-19
CXCR6	Type 2 T helper cell	-0.0798	1.36E-01	0.0037	9.45E-01
DHFR	Type 2 T helper cell	0.0688	1.98E-01	0.0597	2.65E-01
EVI5	Type 2 T helper cell	-0.1170	2.84E-02	-0.0982	6.65E-02
GSTA4	Type 2 T helper cell	0.1699	1.40E-03	0.1581	3.02E-03

HELLS	Type 2 T helper cell	0.3926	2.21E-14	0.4088	1.58E-15
IL26	Type 2 T helper cell	0.0385	4.72E-01	0.0829	1.21E-01
LAIR2	Type 2 T helper cell	0.1020	5.63E-02	0.1566	3.32E-03
CCL3L1	Regulatory T cell	0.0686	2.00E-01	0.1156	3.06E-02
CD72	Regulatory T cell	-0.0927	8.28E-02	-0.0216	6.87E-01
CLEC5A	Regulatory T cell	0.0246	6.46E-01	0.0956	7.41E-02
FOXP3	Regulatory T cell	-0.1162	2.96E-02	-0.0696	1.94E-01
ITGA4	Regulatory T cell	-0.0999	6.15E-02	-0.0279	6.04E-01
L1CAM	Regulatory T cell	-0.0303	5.71E-01	0.0264	6.22E-01
LIPA	Regulatory T cell	-0.2191	3.46E-05	-0.1901	3.48E-04
LRP1	Regulatory T cell	-0.2941	1.96E-08	-0.2817	8.34E-08
LRRC42	Regulatory T cell	0.2462	3.05E-06	0.2652	4.80E-07
MARCO	Regulatory T cell	-0.1679	1.59E-03	-0.1209	2.37E-02
MMP12	Regulatory T cell	0.0677	2.06E-01	0.1349	1.15E-02
MNDA	Regulatory T cell	-0.0487	3.63E-01	0.0504	3.47E-01
MRC1	Regulatory T cell	-0.2220	2.70E-05	-0.1825	6.00E-04
MS4A6A	Regulatory T cell	-0.1529	4.08E-03	-0.0856	1.10E-01
PELO	Regulatory T cell	0.0672	2.09E-01	0.0980	6.71E-02
PLEK	Regulatory T cell	-0.0666	2.13E-01	0.0275	6.08E-01
PRSS23	Regulatory T cell	-0.0529	3.23E-01	0.0028	9.59E-01
PTGIR	Regulatory T cell	-0.1101	3.92E-02	-0.0619	2.48E-01
ST8SIA4	Regulatory T cell	-0.0614	2.51E-01	0.0279	6.03E-01
STAB1	Regulatory T cell	-0.0976	6.79E-02	-0.0282	5.99E-01
ADAM28	Activated B cell	-0.0065	9.04E-01	0.0888	9.72E-02
CD180	Activated B cell	-0.0938	7.93E-02	-0.0130	8.08E-01
CD79B	Activated B cell	-0.0228	6.70E-01	0.0400	4.56E-01
BLK	Activated B cell	-0.0573	2.84E-01	-0.0158	7.69E-01
CD19	Activated B cell	0.0837	1.18E-01	0.1519	4.40E-03
MS4A1	Activated B cell	-0.0295	5.81E-01	0.0330	5.38E-01

TNFRSF17	Activated B cell	-0.0347	5.17E-01	0.0390	4.67E-01
GNG7	Activated B cell	-0.1215	2.28E-02	-0.1390	9.24E-03
MICAL3	Activated B cell	-0.0785	1.42E-01	-0.0960	7.27E-02
SPIB	Activated B cell	0.1598	2.67E-03	0.2453	3.41E-06
HLA-DOB	Activated B cell	0.0488	3.62E-01	0.1353	1.13E-02
PNOC	Activated B cell	0.0237	6.58E-01	0.1046	5.05E-02
FCRL2	Activated B cell	-0.0006	9.90E-01	0.0569	2.89E-01
BACH2	Activated B cell	-0.0896	9.37E-02	-0.0616	2.51E-01
CR2	Activated B cell	0.0959	7.29E-02	0.1540	3.88E-03
TCL1A	Activated B cell	-0.0173	7.47E-01	0.0380	4.79E-01
AKNA	Activated B cell	-0.0061	9.10E-01	0.0748	1.62E-01
ARHGAP25	Activated B cell	-0.1409	8.19E-03	-0.0712	1.84E-01
CCL21	Activated B cell	-0.0931	8.15E-02	-0.0508	3.44E-01
CD27	Activated B cell	-0.0050	9.26E-01	0.0874	1.03E-01
CD38	Activated B cell	-0.0243	6.50E-01	0.0585	2.75E-01
CLEC17A	Activated B cell	0.0298	5.78E-01	0.0805	1.33E-01
CLEC9A	Activated B cell	-0.1617	2.37E-03	-0.1168	2.89E-02
CLECL1	Activated B cell	0.0804	1.33E-01	0.1805	6.90E-04
CD22	Immature B cell	0.0049	9.27E-01	0.0603	2.61E-01
CYBB	Immature B cell	-0.0917	8.61E-02	-0.0033	9.51E-01
FAM129C	Immature B cell	-0.0009	9.86E-01	0.0412	4.42E-01
FCRL1	Immature B cell	0.0122	8.20E-01	0.0592	2.69E-01
FCRL3	Immature B cell	0.0050	9.26E-01	0.0697	1.93E-01
FCRL5	Immature B cell	-0.0174	7.45E-01	0.0582	2.78E-01
FCRLA	Immature B cell	0.0283	5.98E-01	0.0911	8.86E-02
HDAC9	Immature B cell	-0.0778	1.46E-01	-0.0053	9.21E-01
HLA-DQA1	Immature B cell	-0.0808	1.31E-01	-0.0047	9.30E-01
HVCN1	Immature B cell	-0.1183	2.67E-02	-0.0467	3.84E-01
KIAA0226	Immature B cell	0.2169	4.18E-05	0.2564	1.17E-06

NCF1	Immature B cell	-0.0440	4.11E-01	0.0565	2.92E-01
NCF1B	Immature B cell	-0.0289	5.90E-01	0.0655	2.22E-01
P2RY10	Immature B cell	-0.0860	1.08E-01	-0.0125	8.16E-01
SP100	Immature B cell	-0.2514	1.84E-06	-0.2255	2.05E-05
TXNIP	Immature B cell	-0.0964	7.12E-02	-0.0695	1.95E-01
STAP1	Immature B cell	-0.0158	7.68E-01	0.0451	4.00E-01
TAGAP	Immature B cell	-0.1191	2.56E-02	-0.0443	4.09E-01
ZCCHC2	Immature B cell	0.0341	5.24E-01	0.0439	4.13E-01
AICDA	Memory B cell	0.0325	5.44E-01	0.0795	1.38E-01
CCNA2	Memory B cell	0.3181	1.08E-09	0.3340	1.45E-10
CDKN3	Memory B cell	0.3838	9.23E-14	0.3901	3.60E-14
CLCN5	Memory B cell	-0.0732	1.71E-01	-0.0911	8.88E-02
ENPP1	Memory B cell	-0.0555	2.99E-01	-0.0778	1.46E-01
FCER1A	Memory B cell	-0.0852	1.11E-01	-0.0473	3.78E-01
MYC	Memory B cell	-0.0345	5.20E-01	-0.0229	6.70E-01
RUNX2	Memory B cell	-0.0722	1.77E-01	-0.0008	9.88E-01
SORL1	Memory B cell	-0.2278	1.63E-05	-0.2207	3.10E-05
SOX5	Memory B cell	-0.1269	1.74E-02	-0.1291	1.57E-02
STAT5A	Memory B cell	-0.0783	1.43E-01	-0.0251	6.40E-01
STAT5B	Memory B cell	-0.0517	3.35E-01	-0.0673	2.09E-01
TLR9	Memory B cell	0.1557	3.46E-03	0.2191	3.57E-05
AKT3	Natural killer cell	-0.0904	9.08E-02	-0.0522	3.30E-01
AXL	Natural killer cell	-0.1324	1.31E-02	-0.0706	1.88E-01
BST2	Natural killer cell	-0.1506	4.69E-03	-0.1296	1.52E-02
CDH2	Natural killer cell	-0.0429	4.23E-01	-0.0498	3.53E-01
CRTAM	Natural killer cell	-0.0648	2.26E-01	0.0138	7.97E-01
CSF2RA	Natural killer cell	-0.0144	7.88E-01	0.0631	2.39E-01
CTSZ	Natural killer cell	-0.1659	1.81E-03	-0.1415	8.00E-03
CXCL1	Natural killer cell	0.0470	3.80E-01	0.0949	7.62E-02

CYTH1	Natural killer cell	0.1029	5.41E-02	0.1040	5.19E-02
DAXX	Natural killer cell	0.2419	4.56E-06	0.2459	3.24E-06
DGKH	Natural killer cell	0.0362	4.99E-01	0.0234	6.62E-01
DLL4	Natural killer cell	-0.0373	4.86E-01	-0.0246	6.46E-01
DPYD	Natural killer cell	-0.1223	2.19E-02	-0.1065	4.64E-02
ERBB3	Natural killer cell	0.2169	4.18E-05	0.1920	3.03E-04
F11R	Natural killer cell	0.1307	1.43E-02	0.1171	2.85E-02
FAM27A	Natural killer cell	0.1241	2.00E-02	0.1655	1.89E-03
FAM49A	Natural killer cell	-0.0824	1.24E-01	-0.0372	4.88E-01
FASLG	Natural killer cell	-0.0697	1.93E-01	0.0003	9.95E-01
FCGR1A	Natural killer cell	-0.0432	4.20E-01	0.0529	3.23E-01
FN1	Natural killer cell	-0.0944	7.73E-02	-0.0796	1.37E-01
FSTL1	Natural killer cell	-0.1634	2.14E-03	-0.1238	2.05E-02
FUCA1	Natural killer cell	-0.3162	1.37E-09	-0.3009	9.35E-09
GBP3	Natural killer cell	-0.1478	5.53E-03	-0.1112	3.76E-02
GLS2	Natural killer cell	-0.1984	1.83E-04	-0.1956	2.32E-04
GRB2	Natural killer cell	0.1967	2.09E-04	0.2178	3.97E-05
LST1	Natural killer cell	-0.0969	6.99E-02	-0.0245	6.48E-01
BCL2	Natural killer cell	-0.1633	2.14E-03	-0.1152	3.12E-02
CDC5L	Natural killer cell	0.0868	1.05E-01	0.0730	1.73E-01
FGF18	Natural killer cell	-0.1455	6.31E-03	-0.1213	2.33E-02
FUT5	Natural killer cell	-0.1268	1.75E-02	-0.1157	3.05E-02
FZR1	Natural killer cell	-0.0074	8.91E-01	-0.0138	7.97E-01
IGFBP5	Natural killer cell	-0.1836	5.45E-04	-0.1570	3.24E-03
KANK2	Natural killer cell	-0.0323	5.46E-01	-0.0443	4.09E-01
LDB3	Natural killer cell	-0.0797	1.36E-01	-0.0584	2.76E-01
ABAT	CD56bright natural killer	-0.3198	8.73E-10	-0.3252	4.58E-10
C11orf75	CD56bright natural killer	0.0859	1.08E-01	0.0860	1.08E-01
C5orf15	CD56bright natural killer	-0.0525	3.27E-01	-0.0371	4.89E-01

CDHR1	CD56bright natural killer	-0.0976	6.78E-02	-0.0481	3.70E-01
DCAF12	CD56bright natural killer	0.1115	3.68E-02	0.1126	3.53E-02
DYNLL1	CD56bright natural killer	0.1226	2.16E-02	0.1283	1.63E-02
GPR137B	CD56bright natural killer	0.0015	9.78E-01	0.0251	6.40E-01
HCP5	CD56bright natural killer	-0.0137	7.97E-01	0.0309	5.65E-01
HDGFRP2	CD56bright natural killer	0.1523	4.24E-03	0.1439	7.02E-03
KRT86	CD56bright natural killer	-0.0064	9.04E-01	0.0197	7.13E-01
MLST8	CD56bright natural killer	0.0241	6.52E-01	0.0283	5.98E-01
ELMOD3	CD56bright natural killer	0.0548	3.06E-01	0.0377	4.83E-01
ENTPD5	CD56bright natural killer	-0.2093	7.79E-05	-0.2077	9.06E-05
FAM119A	CD56bright natural killer	0.2664	4.09E-07	0.2701	2.89E-07
FAM179A	CD56bright natural killer	-0.0324	5.45E-01	0.0083	8.77E-01
CLIC2	CD56bright natural killer	-0.1201	2.45E-02	-0.0547	3.07E-01
COX7A2L	CD56bright natural killer	-0.0184	7.31E-01	-0.0250	6.41E-01
CREB3L4	CD56bright natural killer	0.3609	3.09E-12	0.3422	4.73E-11
CSF1	CD56bright natural killer	-0.1049	4.96E-02	-0.0473	3.78E-01
CSNK2A2	CD56bright natural killer	-0.1690	1.49E-03	-0.1622	2.33E-03
CSTA	CD56bright natural killer	0.0239	6.56E-01	0.0317	5.55E-01
CSTB	CD56bright natural killer	0.0486	3.64E-01	0.0603	2.61E-01
CTPS	CD56bright natural killer	-0.0309	5.64E-01	-0.0157	7.69E-01
CTSD	CD56bright natural killer	-0.1943	2.51E-04	-0.1782	8.10E-04
FST	CD56bright natural killer	-0.1577	3.05E-03	-0.1592	2.82E-03
GATA2	CD56bright natural killer	-0.1516	4.41E-03	-0.1352	1.14E-02
GMPR	CD56bright natural killer	-0.1142	3.24E-02	-0.1131	3.45E-02
HDC	CD56bright natural killer	-0.1686	1.53E-03	-0.1527	4.20E-03
HEY1	CD56bright natural killer	0.1261	1.81E-02	0.1317	1.37E-02
HOXA1	CD56bright natural killer	-0.0282	5.99E-01	0.0346	5.19E-01
HS2ST1	CD56bright natural killer	0.0466	3.85E-01	0.0576	2.82E-01
HS3ST1	CD56bright natural killer	-0.1074	4.44E-02	-0.0619	2.48E-01

BCL11B	CD56bright natural killer	-0.0529	3.23E-01	0.0239	6.56E-01
CDH3	CD56bright natural killer	-0.1345	1.16E-02	-0.0854	1.11E-01
MYL6B	CD56bright natural killer	0.1273	1.70E-02	0.1289	1.58E-02
NAA16	CD56bright natural killer	0.1563	3.32E-03	0.1565	3.32E-03
CYP27B1	CD56bright natural killer	0.1604	2.57E-03	0.1814	6.51E-04
EIF3M	CD56bright natural killer	0.2033	1.26E-04	0.2077	9.06E-05
CYP27A1	CD56dim natural killer c	-0.1891	3.67E-04	-0.2030	1.31E-04
DDX55	CD56dim natural killer c	0.4036	3.51E-15	0.4005	6.43E-15
DYRK2	CD56dim natural killer c	0.1970	2.04E-04	0.2320	1.16E-05
RPL37A	CD56dim natural killer c	0.1308	1.42E-02	0.1199	2.49E-02
NOTCH3	CD56dim natural killer c	-0.1150	3.12E-02	-0.0860	1.08E-01
AKR7A3	CD56dim natural killer c	-0.3630	2.26E-12	-0.3691	9.75E-13
GPRC5C	CD56dim natural killer c	-0.0593	2.68E-01	-0.0775	1.48E-01
GRIN1	CD56dim natural killer c	0.2177	3.91E-05	0.2286	1.56E-05
HLA-E	CD56dim natural killer c	-0.2333	1.00E-05	-0.1968	2.12E-04
PORCN	CD56dim natural killer c	0.1514	4.48E-03	0.1633	2.18E-03
PSMC4	CD56dim natural killer c	0.0558	2.97E-01	0.0571	2.87E-01
UPP1	CD56dim natural killer c	0.0765	1.52E-01	0.1179	2.74E-02
IL21R	CD56dim natural killer c	0.0268	6.16E-01	0.1426	7.53E-03
CCR2	Myeloid derived suppres	-0.1156	3.03E-02	-0.0455	3.96E-01
CD14	Myeloid derived suppres	-0.2750	1.65E-07	-0.2616	6.90E-07
CD2	Myeloid derived suppres	-0.0622	2.45E-01	0.0271	6.13E-01
CD86	Myeloid derived suppres	-0.1016	5.73E-02	-0.0127	8.12E-01
CXCR4	Myeloid derived suppres	-0.0025	9.62E-01	0.0847	1.14E-01
FCGR2A	Myeloid derived suppres	-0.0186	7.29E-01	0.0725	1.76E-01
FCGR2B	Myeloid derived suppres	-0.0921	8.48E-02	-0.0288	5.91E-01
FCGR3A	Myeloid derived suppres	-0.0822	1.24E-01	-0.0041	9.38E-01
FERMT3	Myeloid derived suppres	-0.0529	3.23E-01	0.0562	2.95E-01
GPSM3	Myeloid derived suppres	-0.0862	1.07E-01	0.0082	8.78E-01

IL18BP	Myeloid derived suppressor cell	-0.0831	1.20E-01	-0.0117	8.28E-01
IL4R	Myeloid derived suppressor cell	0.0556	2.99E-01	0.0930	8.24E-02
ITGAL	Myeloid derived suppressor cell	0.0231	6.67E-01	0.0946	7.70E-02
ITGAM	Myeloid derived suppressor cell	-0.0052	9.22E-01	0.0806	1.32E-01
PARVG	Myeloid derived suppressor cell	-0.0948	7.60E-02	-0.0008	9.88E-01
PSAP	Myeloid derived suppressor cell	-0.1645	1.99E-03	-0.1298	1.51E-02
PTGER2	Myeloid derived suppressor cell	-0.1714	1.27E-03	-0.1166	2.92E-02
PTGES2	Myeloid derived suppressor cell	0.1119	3.62E-02	0.1128	3.48E-02
S100A8	Myeloid derived suppressor cell	-0.0363	4.98E-01	0.0078	8.84E-01
S100A9	Myeloid derived suppressor cell	0.0595	2.67E-01	0.1301	1.48E-02
BTN2A2	Natural killer T cell	0.0583	2.76E-01	0.1024	5.56E-02
CD101	Natural killer T cell	0.0334	5.33E-01	0.1120	3.63E-02
CD109	Natural killer T cell	0.0797	1.36E-01	0.1248	1.95E-02
CNPY3	Natural killer T cell	0.2505	2.01E-06	0.2564	1.17E-06
CNPY4	Natural killer T cell	0.0812	1.29E-01	0.1242	2.01E-02
CREB1	Natural killer T cell	0.1921	2.94E-04	0.2092	8.05E-05
CRTC2	Natural killer T cell	0.5377	1.10E-27	0.5287	1.35E-26
CRTC3	Natural killer T cell	0.0942	7.79E-02	0.1320	1.34E-02
CSF2	Natural killer T cell	0.0846	1.14E-01	0.1266	1.78E-02
KLRC1	Natural killer T cell	-0.0973	6.86E-02	-0.0478	3.72E-01
FUT4	Natural killer T cell	0.2197	3.30E-05	0.2486	2.50E-06
ICAM2	Natural killer T cell	-0.0254	6.36E-01	0.0145	7.87E-01
IL32	Natural killer T cell	-0.1477	5.56E-03	-0.1228	2.16E-02
LAMP2	Natural killer T cell	-0.1342	1.18E-02	-0.1217	2.27E-02
LILRB5	Natural killer T cell	-0.2697	2.89E-07	-0.2362	7.95E-06
KLRG1	Natural killer T cell	-0.0066	9.02E-01	0.0549	3.06E-01
HSPA4	Natural killer T cell	0.0046	9.32E-01	0.0193	7.20E-01
HSPB6	Natural killer T cell	-0.0794	1.38E-01	-0.0499	3.52E-01
ISM2	Natural killer T cell	0.0966	7.08E-02	0.1057	4.81E-02

ITIH2	Natural killer T cell	-0.1148	3.16E-02	-0.1312	1.41E-02
KDM4C	Natural killer T cell	0.0544	3.10E-01	0.0517	3.35E-01
KIR2DS4	Natural killer T cell	-0.0241	6.52E-01	-0.0154	7.74E-01
KIRREL3	Natural killer T cell	0.1328	1.28E-02	0.1643	2.05E-03
SDCBP	Natural killer T cell	-0.2351	8.54E-06	-0.2129	5.96E-05
NFATC2IP	Natural killer T cell	0.1647	1.96E-03	0.1710	1.32E-03
MICB	Natural killer T cell	0.1305	1.44E-02	0.1769	8.90E-04
KIR2DL1	Natural killer T cell	-0.0627	2.42E-01	-0.0562	2.94E-01
KIR2DL3	Natural killer T cell	-0.0680	2.04E-01	-0.0388	4.70E-01
KIR3DL1	Natural killer T cell	-0.0961	7.20E-02	-0.0751	1.61E-01
KIR3DL2	Natural killer T cell	0.0168	7.53E-01	0.0577	2.82E-01
NCR1	Natural killer T cell	-0.1054	4.84E-02	-0.0681	2.04E-01
FOSL1	Natural killer T cell	-0.1283	1.62E-02	-0.0897	9.37E-02
TSLP	Natural killer T cell	-0.2759	1.49E-07	-0.2653	4.76E-07
SLC7A7	Natural killer T cell	0.0228	6.71E-01	0.1122	3.59E-02
SPP1	Natural killer T cell	0.1227	2.15E-02	0.1651	1.94E-03
TREM2	Natural killer T cell	0.0568	2.89E-01	0.1314	1.39E-02
UBASH3A	Natural killer T cell	-0.0738	1.68E-01	0.0040	9.41E-01
YBX2	Natural killer T cell	0.0552	3.02E-01	0.0569	2.88E-01
CCDC88A	Natural killer T cell	0.0698	1.92E-01	0.0981	6.67E-02
CLEC1A	Natural killer T cell	-0.2488	2.36E-06	-0.2196	3.41E-05
THBD	Natural killer T cell	-0.2245	2.18E-05	-0.1895	3.64E-04
PDPN	Natural killer T cell	-0.0352	5.11E-01	0.0326	5.43E-01
VCAM1	Natural killer T cell	-0.0579	2.79E-01	-0.0062	9.08E-01
EMR1	Natural killer T cell	-0.1261	1.81E-02	-0.0687	2.00E-01
ABCD1	Activated dendritic cell	0.2790	1.07E-07	0.2918	2.69E-08
C1QC	Activated dendritic cell	-0.1353	1.12E-02	-0.0626	2.43E-01
CAPG	Activated dendritic cell	0.0707	1.86E-01	0.1237	2.06E-02
CCL3L3	Activated dendritic cell	0.0157	7.70E-01	0.0394	4.63E-01

CD207	Activated dendritic cell	-0.0001	9.98E-01	0.0436	4.16E-01
CD302	Activated dendritic cell	-0.3144	1.71E-09	-0.3349	1.28E-10
ATP5B	Activated dendritic cell	-0.2612	6.95E-07	-0.2563	1.18E-06
ATP5L	Activated dendritic cell	0.0165	7.58E-01	0.0164	7.60E-01
ATP6V1A	Activated dendritic cell	-0.1582	2.96E-03	-0.1580	3.04E-03
BCL2L1	Activated dendritic cell	-0.0737	1.68E-01	-0.0823	1.25E-01
C1QB	Activated dendritic cell	-0.1325	1.30E-02	-0.0616	2.51E-01
SNURF	Activated dendritic cell	0.0822	1.24E-01	0.0899	9.32E-02
SPCS3	Activated dendritic cell	-0.3019	7.89E-09	-0.2782	1.22E-07
CCNA1	Activated dendritic cell	-0.0115	8.30E-01	0.0158	7.69E-01
NOS2	Activated dendritic cell	-0.0869	1.04E-01	-0.0770	1.51E-01
SRA1	Activated dendritic cell	-0.0363	4.98E-01	-0.0352	5.11E-01
TNFRSF6B	Activated dendritic cell	0.0769	1.50E-01	0.1105	3.89E-02
TREM1	Activated dendritic cell	0.1459	6.17E-03	0.2086	8.42E-05
TREML1	Activated dendritic cell	0.0978	6.72E-02	0.1397	8.87E-03
RHOA	Activated dendritic cell	0.0520	3.31E-01	0.0812	1.30E-01
SLC25A37	Activated dendritic cell	0.0351	5.12E-01	0.0448	4.03E-01
TNFSF14	Activated dendritic cell	0.0940	7.87E-02	0.1128	3.49E-02
TREML4	Activated dendritic cell	0.0905	9.03E-02	0.1273	1.72E-02
VNN2	Activated dendritic cell	0.0603	2.60E-01	0.1195	2.54E-02
XPO6	Activated dendritic cell	0.1665	1.75E-03	0.2163	4.47E-05
CLEC4C	Activated dendritic cell	0.0340	5.25E-01	0.0710	1.85E-01
TNFAIP2	Activated dendritic cell	0.0834	1.19E-01	0.1205	2.42E-02
UBD	Activated dendritic cell	0.1675	1.64E-03	0.2117	6.54E-05
ACTR3	Activated dendritic cell	0.0734	1.70E-01	0.1177	2.77E-02
RAB1A	Activated dendritic cell	-0.0354	5.09E-01	-0.0218	6.84E-01
SLA	Activated dendritic cell	-0.1431	7.25E-03	-0.0683	2.02E-01
HLA-DQA2	Activated dendritic cell	-0.0006	9.91E-01	0.0772	1.49E-01
SIGLEC5	Activated dendritic cell	-0.1104	3.87E-02	-0.0425	4.28E-01

SLAMF9	Activated dendritic cell	-0.0597	2.65E-01	-0.0415	4.39E-01
CBX6	Plasmacytoid dendritic c	0.0522	3.30E-01	0.0757	1.58E-01
DAB2	Plasmacytoid dendritic c	-0.0764	1.53E-01	-0.0218	6.85E-01
DDX17	Plasmacytoid dendritic c	0.3297	2.42E-10	0.3314	2.04E-10
HIGD1A	Plasmacytoid dendritic c	-0.3652	1.64E-12	-0.3719	6.37E-13
IDH3A	Plasmacytoid dendritic c	-0.1865	4.45E-04	-0.1736	1.11E-03
IL3RA	Plasmacytoid dendritic c	-0.0822	1.24E-01	-0.0468	3.83E-01
MAGED1	Plasmacytoid dendritic c	0.0973	6.87E-02	0.1161	2.98E-02
NUCB2	Plasmacytoid dendritic c	0.0843	1.15E-01	0.0966	7.12E-02
OFD1	Plasmacytoid dendritic c	0.3656	1.52E-12	0.3809	1.58E-13
OGT	Plasmacytoid dendritic c	0.2757	1.54E-07	0.2823	7.77E-08
PDIA4	Plasmacytoid dendritic c	-0.1374	9.96E-03	-0.1259	1.85E-02
SERTAD2	Plasmacytoid dendritic c	0.1385	9.40E-03	0.1257	1.86E-02
SIRPA	Plasmacytoid dendritic c	-0.0755	1.58E-01	-0.0526	3.26E-01
TMED2	Plasmacytoid dendritic c	-0.0156	7.71E-01	-0.0108	8.40E-01
ENG	Plasmacytoid dendritic c	-0.3153	1.53E-09	-0.2884	3.94E-08
FCAR	Plasmacytoid dendritic c	-0.1192	2.55E-02	-0.0675	2.08E-01
IGF1	Plasmacytoid dendritic c	-0.2493	2.26E-06	-0.2426	4.41E-06
ITGA2B	Plasmacytoid dendritic c	0.0448	4.03E-01	0.0572	2.86E-01
GABARAP	Plasmacytoid dendritic c	-0.1211	2.33E-02	-0.1088	4.18E-02
GPX1	Plasmacytoid dendritic c	-0.1517	4.39E-03	-0.1328	1.29E-02
KRT23	Plasmacytoid dendritic c	0.0987	6.46E-02	0.1216	2.29E-02
PROK2	Plasmacytoid dendritic c	0.0018	9.73E-01	0.0393	4.64E-01
RALB	Plasmacytoid dendritic c	-0.0712	1.83E-01	-0.0410	4.45E-01
RNF141	Plasmacytoid dendritic c	-0.1081	4.29E-02	-0.0979	6.72E-02
SEC14L1	Plasmacytoid dendritic c	-0.1361	1.07E-02	-0.1007	5.99E-02
SEPX1	Plasmacytoid dendritic c	-0.1818	6.22E-04	-0.1853	4.93E-04
EMP3	Plasmacytoid dendritic c	-0.0397	4.58E-01	0.0502	3.49E-01
CD300LF	Plasmacytoid dendritic c	-0.0441	4.10E-01	0.0370	4.91E-01

ABTB1	Plasmacytoid dendritic cell	-0.0098	8.55E-01	0.0035	9.48E-01
KLHL21	Plasmacytoid dendritic cell	-0.0516	3.35E-01	-0.0511	3.41E-01
PHRF1	Plasmacytoid dendritic cell	0.0651	2.24E-01	0.0685	2.01E-01
ACADM	Immature dendritic cell	-0.3155	1.50E-09	-0.3152	1.63E-09
AHCYL1	Immature dendritic cell	-0.2087	8.15E-05	-0.1976	1.99E-04
ALDH1A2	Immature dendritic cell	-0.0777	1.46E-01	-0.0490	3.61E-01
ALDH3A2	Immature dendritic cell	-0.1092	4.08E-02	-0.1514	4.54E-03
ALDH9A1	Immature dendritic cell	-0.1650	1.92E-03	-0.1757	9.65E-04
ALOX15	Immature dendritic cell	-0.0227	6.71E-01	-0.0004	9.94E-01
AMT	Immature dendritic cell	-0.1775	8.35E-04	-0.1972	2.05E-04
ARL1	Immature dendritic cell	-0.0266	6.20E-01	-0.0074	8.90E-01
ATIC	Immature dendritic cell	0.1906	3.30E-04	0.1969	2.10E-04
ATP5A1	Immature dendritic cell	-0.3175	1.17E-09	-0.3099	3.14E-09
CAPZA1	Immature dendritic cell	0.0863	1.06E-01	0.1226	2.18E-02
LILRA5	Immature dendritic cell	-0.1596	2.71E-03	-0.1046	5.07E-02
RDX	Immature dendritic cell	-0.0545	3.09E-01	-0.0536	3.18E-01
RRAGD	Immature dendritic cell	0.1492	5.10E-03	0.1548	3.69E-03
TACSTD2	Immature dendritic cell	-0.0276	6.06E-01	0.0059	9.12E-01
INPP5F	Immature dendritic cell	0.1385	9.39E-03	0.1619	2.38E-03
RAB38	Immature dendritic cell	0.0012	9.83E-01	0.0670	2.11E-01
PLAU	Immature dendritic cell	-0.0828	1.22E-01	-0.0096	8.57E-01
CSF3R	Immature dendritic cell	-0.0577	2.81E-01	0.0256	6.33E-01
SLC18A2	Immature dendritic cell	-0.0883	9.87E-02	-0.0762	1.55E-01
AMPD2	Immature dendritic cell	-0.0479	3.71E-01	-0.0459	3.92E-01
CLTB	Immature dendritic cell	-0.0843	1.15E-01	-0.0715	1.82E-01
C1orf162	Immature dendritic cell	-0.1404	8.44E-03	-0.0714	1.83E-01
AIF1	Macrophage	-0.0976	6.77E-02	-0.0195	7.16E-01
CCL14	Macrophage	-0.3149	1.62E-09	-0.3118	2.51E-09
CCL23	Macrophage	-0.1505	4.72E-03	-0.1116	3.69E-02

CCL26	Macrophage	0.1730	1.14E-03	0.2150	5.01E-05
CD300LB	Macrophage	0.0175	7.44E-01	0.0888	9.73E-02
CNR1	Macrophage	-0.0588	2.72E-01	-0.0315	5.57E-01
CNR2	Macrophage	0.0249	6.42E-01	0.0781	1.45E-01
EIF1	Macrophage	0.0690	1.97E-01	0.0612	2.54E-01
EIF4A1	Macrophage	-0.0296	5.80E-01	-0.0126	8.14E-01
FPR1	Macrophage	-0.0968	7.01E-02	-0.0184	7.31E-01
FPR2	Macrophage	-0.1563	3.32E-03	-0.0996	6.26E-02
FRAT2	Macrophage	0.1170	2.84E-02	0.1257	1.86E-02
GPR27	Macrophage	0.0164	7.59E-01	0.0284	5.96E-01
GPR77	Macrophage	0.0377	4.82E-01	0.0580	2.79E-01
RNASE2	Macrophage	0.1210	2.34E-02	0.1733	1.13E-03
MS4A2	Macrophage	-0.1085	4.22E-02	-0.0671	2.10E-01
BASP1	Macrophage	-0.1179	2.72E-02	-0.0444	4.08E-01
IGSF6	Macrophage	-0.1161	2.96E-02	-0.0441	4.10E-01
HK3	Macrophage	-0.0863	1.07E-01	-0.0028	9.58E-01
VNN1	Macrophage	-0.1206	2.38E-02	-0.0983	6.62E-02
FES	Macrophage	0.0972	6.89E-02	0.1205	2.41E-02
NPL	Macrophage	0.0486	3.64E-01	0.0970	6.98E-02
FZD2	Macrophage	0.0372	4.87E-01	0.1164	2.94E-02
FAM198B	Macrophage	-0.2512	1.87E-06	-0.2219	2.81E-05
HNMT	Macrophage	-0.2426	4.28E-06	-0.2644	5.20E-07
SLC15A3	Macrophage	-0.1142	3.25E-02	-0.0489	3.62E-01
CD4	Macrophage	-0.2115	6.49E-05	-0.1649	1.96E-03
TXNDC3	Macrophage	-0.0410	4.44E-01	0.0205	7.03E-01
FRMD4A	Macrophage	0.0817	1.27E-01	0.1086	4.23E-02
CRYBB1	Macrophage	-0.0579	2.79E-01	0.0151	7.78E-01
HRH1	Macrophage	-0.0759	1.56E-01	-0.0165	7.58E-01
WNT5B	Macrophage	-0.0934	8.07E-02	-0.0949	7.62E-02

GIPR	Eosinophil	0.1137	3.32E-02	0.1416	7.99E-03
LRMP	Eosinophil	-0.1068	4.55E-02	-0.0527	3.26E-01
FOSB	Eosinophil	-0.1961	2.18E-04	-0.1735	1.12E-03
RRP12	Eosinophil	0.1292	1.54E-02	0.1375	9.99E-03
GPR183	Eosinophil	-0.1183	2.66E-02	-0.0507	3.44E-01
NR4A3	Eosinophil	-0.1533	3.99E-03	-0.1257	1.87E-02
ST3GAL6	Eosinophil	-0.3021	7.66E-09	-0.3151	1.67E-09
DEPDC5	Eosinophil	-0.0057	9.16E-01	-0.0271	6.14E-01
PDE6C	Eosinophil	-0.0259	6.29E-01	-0.0317	5.54E-01
PKD2L2	Eosinophil	0.0662	2.16E-01	0.0867	1.05E-01
GPR65	Eosinophil	-0.1336	1.23E-02	-0.0552	3.04E-01
IL5RA	Eosinophil	-0.1301	1.47E-02	-0.0837	1.18E-01
P2RY14	Eosinophil	-0.1761	9.22E-04	-0.1460	6.20E-03
DACH1	Eosinophil	-0.0441	4.10E-01	-0.0167	7.55E-01
DAPK2	Eosinophil	-0.0566	2.90E-01	-0.0530	3.23E-01
EMR3	Eosinophil	0.0276	6.06E-01	0.0744	1.65E-01
ADAMTS3	Mast cell	-0.0441	4.10E-01	0.0175	7.45E-01
CPA3	Mast cell	-0.0982	6.62E-02	-0.0556	2.99E-01
CMA1	Mast cell	-0.1377	9.81E-03	-0.1128	3.49E-02
CTSG	Mast cell	-0.1636	2.10E-03	-0.1401	8.68E-03
ARHGAP15	Mast cell	-0.0827	1.22E-01	-0.0075	8.88E-01
CPM	Mast cell	-0.0626	2.42E-01	-0.0358	5.04E-01
FCN1	Mast cell	-0.1561	3.38E-03	-0.0989	6.45E-02
FTL	Mast cell	-0.0072	8.93E-01	0.0068	8.99E-01
HSPA6	Mast cell	0.1476	5.61E-03	0.2072	9.39E-05
ITGA9	Mast cell	-0.2025	1.33E-04	-0.1661	1.82E-03
RNASE3	Mast cell	-0.0042	9.37E-01	0.0261	6.26E-01
S100A4	Mast cell	0.0065	9.04E-01	0.1078	4.38E-02
SIGLEC8	Mast cell	-0.1251	1.90E-02	-0.0731	1.73E-01

SLC6A4	Mast cell	0.0066	9.02E-01	0.0012	9.83E-01
PTGS2	Mast cell	-0.1324	1.30E-02	-0.0786	1.42E-01
EGR3	Mast cell	-0.1751	9.90E-04	-0.1266	1.78E-02
PILRA	Mast cell	-0.0575	2.83E-01	0.0429	4.24E-01
ASGR2	Monocyte	-0.1628	2.21E-03	-0.1834	5.64E-04
CFP	Monocyte	-0.2118	6.36E-05	-0.1726	1.19E-03
ASGR1	Monocyte	-0.1443	6.76E-03	-0.1686	1.55E-03
CD1D	Monocyte	-0.1235	2.06E-02	-0.0840	1.17E-01
UPK3A	Monocyte	0.1514	4.47E-03	0.1558	3.47E-03
ACTG1	Monocyte	0.0918	8.58E-02	0.1117	3.67E-02
ANXA5	Monocyte	0.0120	8.23E-01	0.0692	1.97E-01
ATP6V1B2	Monocyte	-0.1244	1.97E-02	-0.0870	1.04E-01
CFL1	Monocyte	0.0483	3.67E-01	0.0912	8.83E-02
DAZAP2	Monocyte	-0.0972	6.89E-02	-0.0643	2.30E-01
CTBS	Monocyte	-0.3146	1.66E-09	-0.3047	5.91E-09
EMR4P	Monocyte	-0.0597	2.65E-01	-0.0017	9.75E-01
HIVEP2	Monocyte	0.0275	6.08E-01	0.0512	3.40E-01
MARCKSL1	Monocyte	0.1779	8.16E-04	0.2016	1.47E-04
MBP	Monocyte	-0.0804	1.33E-01	-0.0588	2.73E-01
MMP15	Monocyte	-0.1081	4.30E-02	-0.1060	4.74E-02
PNPLA6	Monocyte	-0.0060	9.11E-01	0.0111	8.36E-01
TMBIM6	Monocyte	-0.3895	3.69E-14	-0.3983	9.35E-15
PQBP1	Monocyte	0.2340	9.45E-06	0.2297	1.43E-05
TEX264	Monocyte	-0.2255	2.00E-05	-0.2473	2.82E-06
IKZF1	Monocyte	-0.1434	7.14E-03	-0.0704	1.89E-01
CREB5	Neutrophil	0.0197	7.13E-01	0.0402	4.53E-01
CDA	Neutrophil	-0.1103	3.90E-02	-0.0936	8.03E-02
CHST15	Neutrophil	-0.1642	2.02E-03	-0.1515	4.50E-03
S100A12	Neutrophil	-0.0851	1.12E-01	-0.0613	2.52E-01

APOBEC3A	Neutrophil	0.0425	4.27E-01	0.0881	9.99E-02
CASP5	Neutrophil	0.0306	5.68E-01	0.0932	8.16E-02
MMP25	Neutrophil	-0.0669	2.11E-01	0.0089	8.68E-01
HAL	Neutrophil	-0.0553	3.02E-01	-0.0486	3.65E-01
C1orf183	Neutrophil	0.0036	9.46E-01	0.0186	7.29E-01
FFAR2	Neutrophil	0.0418	4.35E-01	0.0898	9.35E-02
MAK	Neutrophil	0.0255	6.34E-01	0.0430	4.23E-01
CXCR1	Neutrophil	-0.1047	5.00E-02	-0.0779	1.46E-01
STEAP4	Neutrophil	-0.3596	3.73E-12	-0.3469	2.46E-11
MGAM	Neutrophil	0.0519	3.32E-01	0.0909	8.94E-02
BTNL8	Neutrophil	0.1728	1.15E-03	0.1840	5.41E-04
CXCR2	Neutrophil	-0.0767	1.51E-01	-0.0375	4.84E-01
TNFRSF10C	Neutrophil	-0.0303	5.72E-01	-0.0079	8.83E-01
VNN3	Neutrophil	-0.0447	4.03E-01	-0.0256	6.33E-01
CCL2	TAM	-0.1523	4.23E-03	-0.0973	6.91E-02
CD68	TAM	-0.2191	3.47E-05	-0.1764	9.18E-04
IL10	TAM	-0.1173	2.79E-02	-0.0503	3.48E-01
NOS2	M1 Macrophage	-0.0869	1.04E-01	-0.0770	1.51E-01
IRF5	M1 Macrophage	0.1479	5.51E-03	0.1661	1.82E-03
PTGS2	M1 Macrophage	-0.1324	1.30E-02	-0.0786	1.42E-01
CD163	M2 Macrophage	-0.2106	7.02E-05	-0.1624	2.31E-03
VSIG4	M2 Macrophage	-0.1559	3.41E-03	-0.0925	8.42E-02
MS4A4A	M2 Macrophage	-0.1698	1.41E-03	-0.1094	4.08E-02
ADPRH	regulatory T cell marker	-0.0293	5.85E-01	0.0378	4.81E-01
IL1R1	regulatory T cell marker	-0.2291	1.47E-05	-0.2244	2.26E-05
KSR1	regulatory T cell marker	0.0331	5.37E-01	0.0698	1.93E-01
SOCS2	regulatory T cell marker	-0.2577	9.88E-07	-0.2579	1.01E-06
SSH1	regulatory T cell marker	-0.0199	7.11E-01	0.0060	9.11E-01
NFAT5	regulatory T cell marker	-0.0353	5.10E-01	-0.0211	6.94E-01

JAK1	regulatory T cell marker	-0.2072	9.23E-05	-0.1832	5.74E-04
CHST7	regulatory T cell marker	-0.1566	3.27E-03	-0.1353	1.13E-02
METTL7A	regulatory T cell marker	-0.3642	1.90E-12	-0.3925	2.44E-14
ENTPD1	regulatory T cell marker	-0.0342	5.23E-01	0.0334	5.33E-01
LY75	regulatory T cell marker	-0.1373	1.00E-02	-0.0786	1.42E-01
ANKRD10	regulatory T cell marker	0.2411	4.90E-06	0.2450	3.52E-06
IKZF2	regulatory T cell marker	-0.1789	7.62E-04	-0.1376	9.94E-03
LAX1	regulatory T cell marker	-0.0740	1.67E-01	-0.0129	8.10E-01
LAYN	regulatory T cell marker	-0.0250	6.40E-01	0.0239	6.56E-01
CSF1	regulatory T cell marker	-0.1049	4.96E-02	-0.0473	3.78E-01
ACSL4	regulatory T cell marker	0.1088	4.17E-02	0.1301	1.49E-02
CHRNA6	regulatory T cell marker	0.0589	2.71E-01	0.1107	3.84E-02
TMPRSS6	regulatory T cell marker	-0.0907	8.99E-02	-0.0980	6.70E-02
CADM1	regulatory T cell marker	-0.1215	2.29E-02	-0.1504	4.81E-03
CHST2	regulatory T cell marker	-0.0581	2.78E-01	0.0087	8.71E-01
ZBTB38	regulatory T cell marker	-0.1331	1.26E-02	-0.1339	1.22E-02
MAGEH1	regulatory T cell marker	0.0959	7.27E-02	0.1152	3.12E-02
NPTN	regulatory T cell marker	-0.0004	9.94E-01	0.0039	9.42E-01
RRAGB	regulatory T cell marker	-0.0372	4.88E-01	-0.0421	4.32E-01
ADAT2	regulatory T cell marker	0.3058	4.95E-09	0.3265	3.90E-10
LIMA1	regulatory T cell marker	0.0162	7.62E-01	0.0636	2.35E-01
ICOS	regulatory T cell marker	0.0203	7.05E-01	0.1211	2.35E-02
IL21R	regulatory T cell marker	0.0268	6.16E-01	0.1426	7.53E-03
THADA	regulatory T cell marker	0.0912	8.78E-02	0.0873	1.03E-01
CSF2RB	regulatory T cell marker	-0.1148	3.16E-02	-0.0330	5.38E-01
SSTR3	regulatory T cell marker	0.1566	3.26E-03	0.1961	2.23E-04
LAPTM4B	regulatory T cell marker	0.2726	2.14E-07	0.2798	1.03E-07
NDFIP2	regulatory T cell marker	-0.1748	1.01E-03	-0.1806	6.87E-04
GCNT1	regulatory T cell marker	-0.0271	6.13E-01	0.0503	3.49E-01

HS3ST3B1	regulatory T cell marker	-0.1521	4.30E-03	-0.1680	1.61E-03
IL1R2	regulatory T cell marker	-0.0042	9.38E-01	0.0050	9.26E-01
VDR	regulatory T cell marker	0.1057	4.78E-02	0.1404	8.51E-03
CTLA4	regulatory T cell marker	0.0755	1.58E-01	0.1751	1.01E-03
CASP1	regulatory T cell marker	-0.0669	2.12E-01	0.0272	6.12E-01
TMEM184C	regulatory T cell marker	-0.1970	2.04E-04	-0.1883	3.98E-04
CTSC	regulatory T cell marker	0.0083	8.76E-01	0.0905	9.09E-02
HSDL2	regulatory T cell marker	-0.2154	4.71E-05	-0.2458	3.26E-06
LEPROT	regulatory T cell marker	-0.1936	2.64E-04	-0.1909	3.29E-04
PTPRJ	regulatory T cell marker	-0.0274	6.08E-01	-0.0200	7.10E-01
CD274	regulatory T cell marker	-0.1401	8.57E-03	-0.0897	9.40E-02
TIGIT	regulatory T cell marker	-0.0336	5.30E-01	0.0568	2.89E-01
TRAF3	regulatory T cell marker	0.0115	8.30E-01	0.0634	2.37E-01
NETO2	regulatory T cell marker	0.0461	3.89E-01	0.0663	2.16E-01
SLC35F2	regulatory T cell marker	0.0777	1.46E-01	0.1487	5.31E-03
ACP5	regulatory T cell marker	-0.0262	6.25E-01	0.0196	7.15E-01
AHCYL1	regulatory T cell marker	-0.2087	8.15E-05	-0.1976	1.99E-04
RNF145	regulatory T cell marker	0.0398	4.58E-01	0.0787	1.42E-01
BCL2L1	regulatory T cell marker	-0.0737	1.68E-01	-0.0823	1.25E-01
TNFRSF4	regulatory T cell marker	0.1376	9.87E-03	0.1928	2.84E-04
NFE2L3	regulatory T cell marker	0.2003	1.59E-04	0.2749	1.74E-07
CCR8	regulatory T cell marker	-0.0200	7.08E-01	0.0463	3.88E-01
HTATIP2	regulatory T cell marker	-0.0315	5.56E-01	-0.0212	6.93E-01
TNFRSF18	regulatory T cell marker	0.0829	1.21E-01	0.1717	1.26E-03
FKBP1A	regulatory T cell marker	0.1230	2.11E-02	0.1586	2.92E-03
LTA	regulatory T cell marker	0.0212	6.93E-01	0.1270	1.75E-02
BATF	regulatory T cell marker	-0.0389	4.68E-01	0.0324	5.46E-01
CD177	regulatory T cell marker	0.0416	4.38E-01	0.0908	9.00E-02
TFRC	regulatory T cell marker	0.1399	8.67E-03	0.1429	7.40E-03

ETV7	regulatory T cell marker	0.1022	5.58E-02	0.1655	1.89E-03
IL12RB2	regulatory T cell marker	-0.1550	3.61E-03	-0.1187	2.64E-02
ZNF282	regulatory T cell marker	0.1325	1.30E-02	0.1101	3.96E-02
ERI1	regulatory T cell marker	0.0332	5.35E-01	0.0653	2.23E-01
GRSF1	regulatory T cell marker	-0.1915	3.07E-04	-0.1794	7.47E-04
NAB1	regulatory T cell marker	0.1206	2.38E-02	0.1197	2.51E-02
C10orf54	immune checkpoint ger	-0.1008	5.93E-02	-0.0466	3.84E-01
CD200	immune checkpoint ger	-0.0938	7.93E-02	-0.0525	3.27E-01
CD40LG	immune checkpoint ger	-0.1460	6.13E-03	-0.0879	1.01E-01
ADORA2A	immune checkpoint ger	0.1235	2.07E-02	0.1719	1.24E-03
TNFSF14	immune checkpoint ger	0.0940	7.87E-02	0.1128	3.49E-02
BTLA	immune checkpoint ger	-0.0500	3.51E-01	0.0276	6.07E-01
CD160	immune checkpoint ger	0.0574	2.84E-01	0.1050	4.96E-02
CD28	immune checkpoint ger	-0.1067	4.59E-02	-0.0379	4.80E-01
CD44	immune checkpoint ger	-0.1328	1.28E-02	-0.0810	1.30E-01
CD48	immune checkpoint ger	-0.1062	4.69E-02	-0.0248	6.44E-01
CD200R1	immune checkpoint ger	-0.1457	6.26E-03	-0.0806	1.33E-01
NRP1	immune checkpoint ger	-0.1440	6.90E-03	-0.1279	1.67E-02
TMIGD2	immune checkpoint ger	-0.1258	1.84E-02	-0.0773	1.49E-01
VTCN1	immune checkpoint ger	0.0275	6.08E-01	0.0659	2.18E-01
ICOS	immune checkpoint ger	0.0203	7.05E-01	0.1211	2.35E-02
TNFSF15	immune checkpoint ger	0.0261	6.25E-01	0.0663	2.16E-01
CD40	immune checkpoint ger	-0.1267	1.76E-02	-0.0933	8.14E-02
HHLA2	immune checkpoint ger	0.0811	1.29E-01	0.1092	4.12E-02
IDO2	immune checkpoint ger	-0.1843	5.21E-04	-0.1619	2.39E-03
PDCD1LG2	immune checkpoint ger	-0.1893	3.61E-04	-0.1356	1.11E-02
TNFRSF14	immune checkpoint ger	-0.0725	1.76E-01	-0.0385	4.73E-01
TNFRSF25	immune checkpoint ger	0.1293	1.53E-02	0.1654	1.90E-03
CD27	immune checkpoint ger	-0.0050	9.26E-01	0.0874	1.03E-01

CD86	immune checkpoint ger	-0.1016	5.73E-02	-0.0127	8.12E-01
CTLA4	immune checkpoint ger	0.0755	1.58E-01	0.1751	1.01E-03
LAIR1	immune checkpoint ger	-0.0166	7.57E-01	0.0947	7.68E-02
LGALS9	immune checkpoint ger	-0.0109	8.39E-01	0.0772	1.49E-01
CD244	immune checkpoint ger	-0.1133	3.38E-02	-0.0554	3.01E-01
CD274	immune checkpoint ger	-0.1401	8.57E-03	-0.0897	9.40E-02
CD276	immune checkpoint ger	0.1045	5.04E-02	0.1336	1.24E-02
CD80	immune checkpoint ger	-0.0329	5.39E-01	0.0491	3.60E-01
HAVCR2	immune checkpoint ger	-0.0969	6.99E-02	-0.0108	8.40E-01
ICOSLG	immune checkpoint ger	-0.2541	1.41E-06	-0.2452	3.46E-06
PDCD1	immune checkpoint ger	0.0514	3.37E-01	0.1319	1.35E-02
TIGIT	immune checkpoint ger	-0.0336	5.30E-01	0.0568	2.89E-01
TNFRSF4	immune checkpoint ger	0.1376	9.87E-03	0.1928	2.84E-04
TNFSF18	immune checkpoint ger	-0.0601	2.61E-01	-0.0331	5.37E-01
KIR3DL1	immune checkpoint ger	-0.0961	7.20E-02	-0.0751	1.61E-01
LAG3	immune checkpoint ger	0.0527	3.24E-01	0.1163	2.96E-02
TNFRSF18	immune checkpoint ger	0.0829	1.21E-01	0.1717	1.26E-03
TNFRSF8	immune checkpoint ger	-0.0503	3.48E-01	0.0490	3.61E-01
TNFSF4	immune checkpoint ger	0.2993	1.07E-08	0.3064	4.84E-09
CD70	immune checkpoint ger	-0.0018	9.74E-01	0.0865	1.06E-01
TNFRSF9	immune checkpoint ger	0.0102	8.49E-01	0.0685	2.01E-01
TNFSF9	immune checkpoint ger	0.1600	2.65E-03	0.2116	6.59E-05
IDO1	immune checkpoint ger	-0.0184	7.31E-01	0.0344	5.21E-01
ENG	immune cell infiltrate ger	-0.3153	1.53E-09	-0.2884	3.94E-08
PTPRC	immune cell infiltrate ger	-0.1326	1.29E-02	-0.0602	2.61E-01
MS4A1	immune cell infiltrate ger	-0.0295	5.81E-01	0.0330	5.38E-01
CD1A	immune cell infiltrate ger	0.0465	3.85E-01	0.1167	2.90E-02
TPSB2	immune cell infiltrate ger	-0.1039	5.17E-02	-0.0678	2.05E-01
PDPN	immune cell infiltrate ger	-0.0352	5.11E-01	0.0326	5.43E-01

CXCR5	immune cell infiltrate ge	0.0022	9.67E-01	0.0718	1.80E-01
IL3RA	immune cell infiltrate ge	-0.0822	1.24E-01	-0.0468	3.83E-01
CSF3	immune cell infiltrate ge	-0.1143	3.23E-02	-0.0948	7.64E-02
B3GAT1	immune cell infiltrate ge	0.0912	8.79E-02	0.0998	6.21E-02
CD247	immune cell infiltrate ge	-0.1030	5.38E-02	-0.0277	6.05E-01
CD8A	immune cell infiltrate ge	-0.0993	6.32E-02	-0.0288	5.91E-01
FOXP3	immune cell infiltrate ge	-0.1162	2.96E-02	-0.0696	1.94E-01
CSF2	immune cell infiltrate ge	0.0846	1.14E-01	0.1266	1.78E-02
CD68	immune cell infiltrate ge	-0.2191	3.47E-05	-0.1764	9.18E-04
GIMAP6	tumor-infiltrating lympho	-0.2432	4.04E-06	-0.2040	1.22E-04
CFH	tumor-infiltrating lympho	-0.1616	2.39E-03	-0.1543	3.81E-03
ITGA4	tumor-infiltrating lympho	-0.0999	6.15E-02	-0.0279	6.04E-01
FAM65B	tumor-infiltrating lympho	-0.1584	2.93E-03	-0.1160	3.00E-02
GVIN1	tumor-infiltrating lympho	-0.1749	1.00E-03	-0.1215	2.30E-02
ARHGAP15	tumor-infiltrating lympho	-0.0827	1.22E-01	-0.0075	8.88E-01
ARHGAP25	tumor-infiltrating lympho	-0.1409	8.19E-03	-0.0712	1.84E-01
GIMAP4	tumor-infiltrating lympho	-0.1817	6.27E-04	-0.1266	1.78E-02
GIMAP7	tumor-infiltrating lympho	-0.2464	2.99E-06	-0.2090	8.15E-05
GPSM3	tumor-infiltrating lympho	-0.0862	1.07E-01	0.0082	8.78E-01
IL16	tumor-infiltrating lympho	-0.1227	2.15E-02	-0.0535	3.19E-01
PIK3CD	tumor-infiltrating lympho	-0.0714	1.82E-01	0.0312	5.61E-01
PRKCB	tumor-infiltrating lympho	-0.1239	2.03E-02	-0.0483	3.68E-01
SELL	tumor-infiltrating lympho	-0.0732	1.71E-01	-0.0034	9.50E-01
GIMAP5	tumor-infiltrating lympho	-0.1013	5.79E-02	-0.0487	3.64E-01
INPP5D	tumor-infiltrating lympho	-0.1520	4.31E-03	-0.0869	1.05E-01
NLRC3	tumor-infiltrating lympho	-0.1434	7.13E-03	-0.0794	1.38E-01
PRKCQ	tumor-infiltrating lympho	-0.1132	3.41E-02	-0.0444	4.07E-01
TRAT1	tumor-infiltrating lympho	-0.1266	1.77E-02	-0.0603	2.60E-01
ARHGAP30	tumor-infiltrating lympho	-0.0961	7.21E-02	-0.0034	9.50E-01

DOCK11	tumor-infiltrating lympho	-0.0965	7.08E-02	-0.0309	5.64E-01
FYB	tumor-infiltrating lympho	-0.1196	2.50E-02	-0.0418	4.35E-01
IKZF1	tumor-infiltrating lympho	-0.1434	7.14E-03	-0.0704	1.89E-01
IL7R	tumor-infiltrating lympho	-0.1851	4.91E-04	-0.1372	1.02E-02
P2RY8	tumor-infiltrating lympho	-0.1740	1.06E-03	-0.1397	8.89E-03
PARVG	tumor-infiltrating lympho	-0.0948	7.60E-02	-0.0008	9.88E-01
PVRIG	tumor-infiltrating lympho	0.0283	5.97E-01	0.0902	9.19E-02
TRAF3IP3	tumor-infiltrating lympho	-0.0918	8.60E-02	-0.0132	8.06E-01
CCR7	tumor-infiltrating lympho	-0.0941	7.82E-02	-0.0267	6.19E-01
EVI2B	tumor-infiltrating lympho	-0.1371	1.02E-02	-0.0612	2.54E-01
GPR18	tumor-infiltrating lympho	-0.0863	1.06E-01	-0.0183	7.33E-01
ITK	tumor-infiltrating lympho	-0.1523	4.23E-03	-0.0884	9.87E-02
ITM2C	tumor-infiltrating lympho	0.1535	3.94E-03	0.1711	1.32E-03
LAX1	tumor-infiltrating lympho	-0.0740	1.67E-01	-0.0129	8.10E-01
MPEG1	tumor-infiltrating lympho	-0.1786	7.74E-04	-0.1224	2.20E-02
MS4A1	tumor-infiltrating lympho	-0.0295	5.81E-01	0.0330	5.38E-01
PTPRC	tumor-infiltrating lympho	-0.1326	1.29E-02	-0.0602	2.61E-01
SELPLG	tumor-infiltrating lympho	-0.1259	1.82E-02	-0.0461	3.90E-01
SLAMF6	tumor-infiltrating lympho	-0.1649	1.94E-03	-0.1049	4.98E-02
STAT4	tumor-infiltrating lympho	-0.0100	8.52E-01	0.0470	3.81E-01
CD28	tumor-infiltrating lympho	-0.1067	4.59E-02	-0.0379	4.80E-01
CD48	tumor-infiltrating lympho	-0.1062	4.69E-02	-0.0248	6.44E-01
CORO1A	tumor-infiltrating lympho	-0.0339	5.27E-01	0.0770	1.51E-01
DOCK2	tumor-infiltrating lympho	-0.1236	2.05E-02	-0.0431	4.22E-01
KLRD1	tumor-infiltrating lympho	-0.1774	8.43E-04	-0.1309	1.43E-02
LCP2	tumor-infiltrating lympho	-0.1347	1.15E-02	-0.0590	2.71E-01
MAL	tumor-infiltrating lympho	-0.0654	2.21E-01	0.0006	9.92E-01
PLAC8	tumor-infiltrating lympho	-0.0429	4.23E-01	0.0296	5.82E-01
SASH3	tumor-infiltrating lympho	-0.0895	9.41E-02	0.0071	8.94E-01

SH2D1A	tumor-infiltrating lympho	-0.1275	1.68E-02	-0.0591	2.70E-01
STK10	tumor-infiltrating lympho	-0.1245	1.97E-02	-0.0555	3.01E-01
ACAP1	tumor-infiltrating lympho	-0.0730	1.72E-01	0.0161	7.65E-01
ARHGAP9	tumor-infiltrating lympho	-0.0374	4.85E-01	0.0715	1.82E-01
CCR2	tumor-infiltrating lympho	-0.1156	3.03E-02	-0.0455	3.96E-01
CD2	tumor-infiltrating lympho	-0.0622	2.45E-01	0.0271	6.13E-01
CD3E	tumor-infiltrating lympho	-0.0931	8.14E-02	-0.0112	8.35E-01
CD52	tumor-infiltrating lympho	-0.0714	1.82E-01	0.0150	7.80E-01
CD6	tumor-infiltrating lympho	-0.0676	2.06E-01	0.0202	7.07E-01
GPR171	tumor-infiltrating lympho	-0.1050	4.93E-02	-0.0332	5.36E-01
GZMK	tumor-infiltrating lympho	-0.1558	3.44E-03	-0.0950	7.60E-02
HCLS1	tumor-infiltrating lympho	-0.1452	6.42E-03	-0.0716	1.82E-01
IL2RG	tumor-infiltrating lympho	-0.0033	9.51E-01	0.0984	6.60E-02
IRF4	tumor-infiltrating lympho	-0.0078	8.84E-01	0.0752	1.61E-01
LAT	tumor-infiltrating lympho	0.0675	2.07E-01	0.1582	3.00E-03
LPXN	tumor-infiltrating lympho	-0.2089	8.06E-05	-0.1624	2.31E-03
MFNG	tumor-infiltrating lympho	-0.0604	2.59E-01	0.0085	8.74E-01
MS4A6A	tumor-infiltrating lympho	-0.1529	4.08E-03	-0.0856	1.10E-01
NCKAP1L	tumor-infiltrating lympho	-0.1033	5.32E-02	-0.0136	8.00E-01
PAX5	tumor-infiltrating lympho	-0.0388	4.69E-01	-0.0157	7.69E-01
PTPRCAP	tumor-infiltrating lympho	-0.0611	2.54E-01	0.0216	6.88E-01
TARP	tumor-infiltrating lympho	-0.1938	2.60E-04	-0.1473	5.75E-03
TCL1A	tumor-infiltrating lympho	-0.0173	7.47E-01	0.0380	4.79E-01
C1orf38	tumor-infiltrating lympho	-0.1210	2.34E-02	-0.0396	4.60E-01
CD247	tumor-infiltrating lympho	-0.1030	5.38E-02	-0.0277	6.05E-01
CD38	tumor-infiltrating lympho	-0.0243	6.50E-01	0.0585	2.75E-01
CD53	tumor-infiltrating lympho	-0.1088	4.16E-02	-0.0165	7.58E-01
CFHR1	tumor-infiltrating lympho	-0.0986	6.49E-02	-0.1080	4.35E-02
CSF2RB	tumor-infiltrating lympho	-0.1148	3.16E-02	-0.0330	5.38E-01

FCRL3	tumor-infiltrating lympho	0.0050	9.26E-01	0.0697	1.93E-01
GLYR1	tumor-infiltrating lympho	-0.1165	2.91E-02	-0.1210	2.36E-02
ICOS	tumor-infiltrating lympho	0.0203	7.05E-01	0.1211	2.35E-02
IFFO1	tumor-infiltrating lympho	0.0321	5.49E-01	0.0419	4.35E-01
IL10RA	tumor-infiltrating lympho	-0.1408	8.25E-03	-0.0724	1.76E-01
IL2RB	tumor-infiltrating lympho	-0.1291	1.55E-02	-0.0558	2.98E-01
KLHL6	tumor-infiltrating lympho	-0.1347	1.15E-02	-0.0599	2.64E-01
LCK	tumor-infiltrating lympho	-0.0842	1.15E-01	0.0036	9.47E-01
LY9	tumor-infiltrating lympho	-0.0723	1.77E-01	0.0149	7.82E-01
PLEK	tumor-infiltrating lympho	-0.0666	2.13E-01	0.0275	6.08E-01
TBC1D10C	tumor-infiltrating lympho	-0.0428	4.24E-01	0.0312	5.61E-01
CD3G	tumor-infiltrating lympho	-0.0688	1.99E-01	0.0126	8.14E-01
CD40	tumor-infiltrating lympho	-0.1267	1.76E-02	-0.0933	8.14E-02
CD79A	tumor-infiltrating lympho	-0.0195	7.15E-01	0.0482	3.69E-01
CYBB	tumor-infiltrating lympho	-0.0917	8.61E-02	-0.0033	9.51E-01
FCRL5	tumor-infiltrating lympho	-0.0174	7.45E-01	0.0582	2.78E-01
LILRB1	tumor-infiltrating lympho	-0.1398	8.73E-03	-0.0703	1.90E-01
PAG1	tumor-infiltrating lympho	0.0380	4.78E-01	0.0809	1.31E-01
SIRPG	tumor-infiltrating lympho	0.0218	6.84E-01	0.1109	3.82E-02
SLAMF1	tumor-infiltrating lympho	-0.1092	4.10E-02	-0.0322	5.49E-01
TBX21	tumor-infiltrating lympho	-0.1340	1.20E-02	-0.0763	1.54E-01
VAMP5	tumor-infiltrating lympho	-0.2166	4.26E-05	-0.2004	1.61E-04
CCL5	tumor-infiltrating lympho	-0.1204	2.41E-02	-0.0516	3.35E-01
CD27	tumor-infiltrating lympho	-0.0050	9.26E-01	0.0874	1.03E-01
CD3D	tumor-infiltrating lympho	0.0226	6.73E-01	0.1133	3.41E-02
CD86	tumor-infiltrating lympho	-0.1016	5.73E-02	-0.0127	8.12E-01
CD8A	tumor-infiltrating lympho	-0.0993	6.32E-02	-0.0288	5.91E-01
CLEC2D	tumor-infiltrating lympho	0.1773	8.48E-04	0.2265	1.88E-05
CST7	tumor-infiltrating lympho	-0.1461	6.11E-03	-0.0847	1.14E-01

HCST	tumor-infiltrating lympho	-0.0941	7.83E-02	-0.0161	7.64E-01
KLRK1	tumor-infiltrating lympho	-0.1338	1.21E-02	-0.0723	1.77E-01
NCF4	tumor-infiltrating lympho	-0.0373	4.86E-01	0.0654	2.22E-01
SIT1	tumor-infiltrating lympho	-0.0112	8.34E-01	0.0910	8.92E-02
XCL1	tumor-infiltrating lympho	0.0367	4.93E-01	0.0999	6.19E-02
XCL2	tumor-infiltrating lympho	-0.0189	7.24E-01	0.0475	3.75E-01
DOK2	tumor-infiltrating lympho	-0.0807	1.31E-01	0.0150	7.79E-01
F5	tumor-infiltrating lympho	-0.0327	5.42E-01	-0.0632	2.38E-01
MGC29506	tumor-infiltrating lympho	-0.0263	6.23E-01	0.0498	3.53E-01
TIGIT	tumor-infiltrating lympho	-0.0336	5.30E-01	0.0568	2.89E-01
TNFRSF4	tumor-infiltrating lympho	0.1376	9.87E-03	0.1928	2.84E-04
SPNS1	tumor-infiltrating lympho	0.1269	1.74E-02	0.1473	5.76E-03
CEP55	cancer-testis antigen ge	0.3634	2.14E-12	0.3928	2.33E-14
KIF2C	cancer-testis antigen ge	0.4323	2.04E-17	0.4499	7.61E-19
OIP5	cancer-testis antigen ge	0.3761	3.07E-13	0.3830	1.12E-13
TTK	cancer-testis antigen ge	0.4439	2.24E-18	0.4540	3.38E-19
CASC5	cancer-testis antigen ge	0.1124	3.52E-02	0.1198	2.50E-02
NUF2	cancer-testis antigen ge	0.5126	6.60E-25	0.5176	2.25E-25
PBK	cancer-testis antigen ge	0.3455	2.81E-11	0.3510	1.38E-11
FANCA	cancer-testis antigen ge	0.2039	1.20E-04	0.2270	1.80E-05
KIF20B	cancer-testis antigen ge	0.3000	9.84E-09	0.3051	5.66E-09
ATAD2	cancer-testis antigen ge	0.3250	4.43E-10	0.3219	6.98E-10
MAGEA6	cancer-testis antigen ge	-0.0395	4.61E-01	-0.0012	9.82E-01
MAGEA3	cancer-testis antigen ge	-0.0409	4.45E-01	-0.0065	9.04E-01
ZNF165	cancer-testis antigen ge	0.2083	8.42E-05	0.2085	8.52E-05
ACTL8	cancer-testis antigen ge	0.0686	2.00E-01	0.0722	1.78E-01
GPATCH2	cancer-testis antigen ge	0.3214	7.08E-10	0.3158	1.52E-09
MAGEA1	cancer-testis antigen ge	-0.0410	4.44E-01	-0.0157	7.69E-01
MAGEA12	cancer-testis antigen ge	-0.0002	9.96E-01	0.0302	5.74E-01

MAGEA2	cancer-testis antigen ge	0.0052	9.22E-01	0.0322	5.48E-01
MAGEA4	cancer-testis antigen ge	0.1820	6.12E-04	0.1977	1.97E-04
PRAME	cancer-testis antigen ge	0.1907	3.26E-04	0.2034	1.27E-04
CSAG1	cancer-testis antigen ge	0.0125	8.16E-01	0.0397	4.59E-01
MAGEC1	cancer-testis antigen ge	0.0737	1.68E-01	0.0944	7.78E-02
MAGEC2	cancer-testis antigen ge	0.0597	2.65E-01	0.0869	1.05E-01
XAGE1D	cancer-testis antigen ge	0.0442	4.09E-01	0.0752	1.60E-01
CAGE1	cancer-testis antigen ge	0.1816	6.28E-04	0.1817	6.35E-04
CSAG2	cancer-testis antigen ge	0.0554	3.01E-01	0.0887	9.77E-02
CTAG1B	cancer-testis antigen ge	0.0662	2.16E-01	0.1013	5.82E-02
GAGE12D	cancer-testis antigen ge	0.1601	2.63E-03	0.1874	4.23E-04
GAGE4	cancer-testis antigen ge	0.1111	3.75E-02	0.1452	6.49E-03
IMP3	cancer-testis antigen ge	-0.0984	6.55E-02	-0.1104	3.90E-02
MAGEA9B	cancer-testis antigen ge	0.1581	2.97E-03	0.1781	8.17E-04
MAGEB6	cancer-testis antigen ge	0.0403	4.52E-01	0.0536	3.17E-01
ODF2	cancer-testis antigen ge	0.1962	2.16E-04	0.2331	1.05E-05
PIWIL2	cancer-testis antigen ge	-0.1147	3.17E-02	-0.1071	4.52E-02
POTEE	cancer-testis antigen ge	-0.0434	4.18E-01	-0.0169	7.53E-01
SLCO6A1	cancer-testis antigen ge	0.0644	2.28E-01	0.0923	8.47E-02
SSX1	cancer-testis antigen ge	0.0185	7.30E-01	0.0482	3.68E-01
SSX2	cancer-testis antigen ge	0.0485	3.65E-01	0.0759	1.56E-01
SSX6	cancer-testis antigen ge	0.0567	2.89E-01	0.0801	1.35E-01
ARX	cancer-testis antigen ge	0.0275	6.07E-01	0.0492	3.59E-01
BAGE	cancer-testis antigen ge	0.0165	7.58E-01	0.0376	4.84E-01
CTAG2	cancer-testis antigen ge	0.0686	2.00E-01	0.1038	5.23E-02
DDX53	cancer-testis antigen ge	-0.0090	8.66E-01	0.0060	9.11E-01
DSCR8	cancer-testis antigen ge	0.0026	9.61E-01	0.0187	7.27E-01
GAGE12J	cancer-testis antigen ge	0.1331	1.26E-02	0.1620	2.37E-03
GAGE2A	cancer-testis antigen ge	0.1633	2.15E-03	0.1854	4.88E-04

HORMAD1	cancer-testis antigen ge	0.0808	1.31E-01	0.1149	3.17E-02
HORMAD2	cancer-testis antigen ge	-0.1827	5.84E-04	-0.1854	4.90E-04
IGSF11	cancer-testis antigen ge	0.0191	7.22E-01	0.0575	2.83E-01
KDM5B	cancer-testis antigen ge	0.2376	6.82E-06	0.2419	4.71E-06
MAGEA11	cancer-testis antigen ge	0.0635	2.35E-01	0.0991	6.40E-02
MAGEA8	cancer-testis antigen ge	0.1081	4.30E-02	0.1282	1.64E-02
PAGE1	cancer-testis antigen ge	0.1173	2.80E-02	0.1315	1.38E-02
PAGE5	cancer-testis antigen ge	-0.0686	2.00E-01	-0.0428	4.24E-01
SSX4	cancer-testis antigen ge	0.0667	2.12E-01	0.0938	7.97E-02
TPTE	cancer-testis antigen ge	0.0709	1.85E-01	0.0847	1.14E-01
BAGE2	cancer-testis antigen ge	0.0375	4.84E-01	0.0439	4.13E-01
CALR3	cancer-testis antigen ge	0.0988	6.45E-02	0.0851	1.12E-01
DCAF12	cancer-testis antigen ge	0.1115	3.68E-02	0.1126	3.53E-02
FAM133A	cancer-testis antigen ge	0.1069	4.53E-02	0.1529	4.14E-03
MAGEA5	cancer-testis antigen ge	0.2001	1.60E-04	0.1979	1.95E-04
MAGEB2	cancer-testis antigen ge	0.0110	8.37E-01	0.0346	5.19E-01
RQCD1	cancer-testis antigen ge	0.1801	7.00E-04	0.2066	9.91E-05
SPA17	cancer-testis antigen ge	0.1985	1.82E-04	0.2116	6.64E-05
SSX5	cancer-testis antigen ge	0.0303	5.71E-01	0.0598	2.65E-01
TEX15	cancer-testis antigen ge	0.0034	9.50E-01	0.0194	7.18E-01
ACRBP	cancer-testis antigen ge	0.0130	8.08E-01	0.0433	4.19E-01
ANKRD45	cancer-testis antigen ge	0.0743	1.65E-01	0.0975	6.84E-02
CABYR	cancer-testis antigen ge	0.2820	7.70E-08	0.2930	2.34E-08
COX6B2	cancer-testis antigen ge	0.0723	1.77E-01	0.0955	7.43E-02
CXorf48	cancer-testis antigen ge	0.1454	6.34E-03	0.1719	1.25E-03
FATE1	cancer-testis antigen ge	0.1276	1.67E-02	0.1223	2.21E-02
KIAA0100	cancer-testis antigen ge	0.2157	4.61E-05	0.2348	9.07E-06
LY6K	cancer-testis antigen ge	0.0061	9.10E-01	0.0034	9.50E-01
NR6A1	cancer-testis antigen ge	0.1811	6.54E-04	0.1820	6.22E-04

NXF2	cancer-testis antigen ge	0.0253	6.36E-01	0.0441	4.11E-01
OTOA	cancer-testis antigen ge	-0.1843	5.20E-04	-0.1471	5.81E-03
PAGE2	cancer-testis antigen ge	0.0937	7.95E-02	0.1178	2.76E-02
PAGE2B	cancer-testis antigen ge	0.0378	4.81E-01	0.0563	2.94E-01
PLAC1	cancer-testis antigen ge	0.1768	8.78E-04	0.2250	2.14E-05
SPAG4	cancer-testis antigen ge	-0.0326	5.42E-01	-0.0175	7.44E-01
SSX3	cancer-testis antigen ge	0.0492	3.58E-01	0.0809	1.31E-01
TAF7L	cancer-testis antigen ge	-0.0821	1.25E-01	-0.0921	8.55E-02
TMEFF1	cancer-testis antigen ge	0.1395	8.89E-03	0.1676	1.65E-03
TULP2	cancer-testis antigen ge	0.0675	2.07E-01	0.0732	1.72E-01
XAGE5	cancer-testis antigen ge	0.0318	5.53E-01	0.0606	2.58E-01
CCDC110	cancer-testis antigen ge	0.0343	5.22E-01	0.0407	4.48E-01
CCDC62	cancer-testis antigen ge	0.1209	2.35E-02	0.1455	6.38E-03
CEP290	cancer-testis antigen ge	0.2194	3.37E-05	0.2262	1.93E-05
CTCFL	cancer-testis antigen ge	0.0701	1.90E-01	0.0593	2.68E-01
CTNNA2	cancer-testis antigen ge	-0.0179	7.39E-01	-0.0402	4.53E-01
DKKL1	cancer-testis antigen ge	0.1356	1.10E-02	0.1472	5.80E-03
FBXO39	cancer-testis antigen ge	-0.0880	9.99E-02	-0.0680	2.04E-01
LYPD6B	cancer-testis antigen ge	0.1481	5.43E-03	0.1805	6.94E-04
MAEL	cancer-testis antigen ge	0.1675	1.64E-03	0.1750	1.01E-03
MAGEB1	cancer-testis antigen ge	0.0339	5.27E-01	0.0554	3.02E-01
NOL4	cancer-testis antigen ge	-0.1038	5.20E-02	-0.0922	8.50E-02
PAGE4	cancer-testis antigen ge	-0.1301	1.47E-02	-0.1431	7.33E-03
PIWIL1	cancer-testis antigen ge	0.0686	2.00E-01	0.0809	1.31E-01
RBM46	cancer-testis antigen ge	0.0252	6.37E-01	0.0237	6.58E-01
SPAG1	cancer-testis antigen ge	0.0598	2.64E-01	0.0819	1.26E-01
TEKT5	cancer-testis antigen ge	-0.0109	8.39E-01	-0.0208	6.98E-01
TEX14	cancer-testis antigen ge	0.1750	9.92E-04	0.1681	1.59E-03
TMEFF2	cancer-testis antigen ge	-0.0655	2.21E-01	-0.0663	2.16E-01

TSSK6	cancer-testis antigen ge	0.0131	8.07E-01	-0.0111	8.36E-01
AKAP3	cancer-testis antigen ge	-0.1961	2.19E-04	-0.2005	1.59E-04
ARMC3	cancer-testis antigen ge	0.1995	1.68E-04	0.2081	8.80E-05
CCNA1	cancer-testis antigen ge	-0.0115	8.30E-01	0.0158	7.69E-01
CTAGE1	cancer-testis antigen ge	-0.1644	2.00E-03	-0.1790	7.66E-04
CTAGE5	cancer-testis antigen ge	-0.2618	6.56E-07	-0.2975	1.38E-08
ELOVL4	cancer-testis antigen ge	0.0130	8.08E-01	0.0592	2.70E-01
HSPB9	cancer-testis antigen ge	0.0331	5.36E-01	0.0092	8.63E-01
LDHC	cancer-testis antigen ge	0.0125	8.16E-01	0.0043	9.35E-01
PRSS50	cancer-testis antigen ge	0.1578	3.02E-03	0.1386	9.42E-03
ROPN1	cancer-testis antigen ge	0.0279	6.02E-01	0.0134	8.03E-01
SPAG6	cancer-testis antigen ge	0.2224	2.61E-05	0.2262	1.94E-05
SPAG9	cancer-testis antigen ge	0.0347	5.17E-01	0.0434	4.18E-01
SYCE1	cancer-testis antigen ge	0.0104	8.47E-01	0.0308	5.66E-01
TEX101	cancer-testis antigen ge	-0.0264	6.22E-01	-0.0029	9.58E-01
TFDP3	cancer-testis antigen ge	-0.0587	2.73E-01	-0.0473	3.78E-01
TPPP2	cancer-testis antigen ge	-0.3604	3.33E-12	-0.3769	2.93E-13
TSGA10	cancer-testis antigen ge	0.0403	4.52E-01	0.0486	3.65E-01
C21orf99	cancer-testis antigen ge	0.0724	1.76E-01	0.1055	4.85E-02
CCDC36	cancer-testis antigen ge	0.0523	3.28E-01	0.0837	1.18E-01
CRISP2	cancer-testis antigen ge	0.0599	2.63E-01	0.0903	9.16E-02
CT47B1	cancer-testis antigen ge	0.0312	5.60E-01	0.0530	3.23E-01
FMR1NB	cancer-testis antigen ge	0.0617	2.49E-01	0.0669	2.12E-01
IL13RA2	cancer-testis antigen ge	-0.0023	9.65E-01	0.0410	4.44E-01
MAGEC3	cancer-testis antigen ge	0.1431	7.27E-03	0.1447	6.68E-03
MORC1	cancer-testis antigen ge	-0.0006	9.92E-01	0.0063	9.06E-01
RGS22	cancer-testis antigen ge	-0.0546	3.07E-01	-0.0426	4.26E-01
SPAG17	cancer-testis antigen ge	0.0832	1.20E-01	0.1151	3.13E-02
SPAG8	cancer-testis antigen ge	0.1661	1.79E-03	0.1722	1.22E-03

SPEF2	cancer-testis antigen ge	0.3994	7.15E-15	0.3918	2.75E-14
TDRD6	cancer-testis antigen ge	-0.0666	2.13E-01	-0.0548	3.07E-01
TMEM108	cancer-testis antigen ge	-0.0186	7.28E-01	0.0205	7.03E-01
XAGE3	cancer-testis antigen ge	-0.0255	6.34E-01	-0.0210	6.96E-01
DDX43	cancer-testis antigen ge	-0.0059	9.12E-01	0.0188	7.27E-01
GPAT2	cancer-testis antigen ge	-0.0720	1.79E-01	-0.0485	3.66E-01
HEMGN	cancer-testis antigen ge	-0.1278	1.66E-02	-0.1072	4.51E-02
NLRP4	cancer-testis antigen ge	0.0237	6.59E-01	0.0610	2.55E-01
PRSS55	cancer-testis antigen ge	0.1575	3.09E-03	0.1570	3.24E-03
RNF17	cancer-testis antigen ge	0.1465	5.95E-03	0.1802	7.06E-04
TDRD1	cancer-testis antigen ge	0.0407	4.47E-01	0.0618	2.49E-01
HLA-DOA	HLA genes	-0.1057	4.78E-02	-0.0259	6.29E-01
HLA-DOB	HLA genes	0.0488	3.62E-01	0.1353	1.13E-02
HLA-DPB1	HLA genes	-0.1093	4.07E-02	-0.0323	5.47E-01
HLA-DQA1	HLA genes	-0.0808	1.31E-01	-0.0047	9.30E-01
HLA-DQB2	HLA genes	0.0010	9.85E-01	0.0884	9.86E-02
HLA-J	HLA genes	0.0583	2.76E-01	0.0975	6.86E-02
HLA-A	HLA genes	-0.0877	1.01E-01	-0.0417	4.37E-01
HLA-DPA1	HLA genes	-0.1399	8.66E-03	-0.0697	1.93E-01
HLA-DPB2	HLA genes	-0.0360	5.02E-01	0.0350	5.13E-01
HLA-DQA2	HLA genes	-0.0006	9.91E-01	0.0772	1.49E-01
HLA-DRA	HLA genes	-0.1168	2.87E-02	-0.0461	3.90E-01
HLA-E	HLA genes	-0.2333	1.00E-05	-0.1968	2.12E-04
HLA-H	HLA genes	-0.0638	2.33E-01	-0.0172	7.48E-01
HLA-B	HLA genes	-0.1148	3.15E-02	-0.0678	2.06E-01
HLA-DMB	HLA genes	-0.0692	1.96E-01	0.0169	7.53E-01
HLA-DQB1	HLA genes	-0.0946	7.67E-02	-0.0230	6.67E-01
HLA-DRB1	HLA genes	-0.1109	3.79E-02	-0.0458	3.93E-01
HLA-F	HLA genes	-0.0670	2.11E-01	-0.0194	7.17E-01

HLA-C	HLA genes	-0.1371	1.01E-02	-0.1001	6.14E-02
HLA-DMA	HLA genes	-0.0695	1.94E-01	-0.0043	9.35E-01
HLA-DRB5	HLA genes	-0.0813	1.29E-01	-0.0249	6.42E-01
HLA-G	HLA genes	-0.0998	6.19E-02	-0.0682	2.03E-01
HLA-L	HLA genes	-0.0499	3.51E-01	-0.0081	8.79E-01
HLA-DRB6	HLA genes	-0.0602	2.61E-01	0.0117	8.28E-01
TNFAIP8L3	cytokine and cytokine re	0.0670	2.10E-01	0.1001	6.14E-02
CCL14	cytokine and cytokine re	-0.3149	1.62E-09	-0.3118	2.51E-09
CX3CR1	cytokine and cytokine re	-0.1435	7.08E-03	-0.1080	4.34E-02
CCL21	cytokine and cytokine re	-0.0931	8.15E-02	-0.0508	3.44E-01
IL1R1	cytokine and cytokine re	-0.2291	1.47E-05	-0.2244	2.26E-05
IL33	cytokine and cytokine re	-0.2170	4.13E-05	-0.1888	3.83E-04
CCL19	cytokine and cytokine re	-0.0462	3.89E-01	0.0081	8.80E-01
CCR6	cytokine and cytokine re	0.1354	1.11E-02	0.1727	1.18E-03
IL16	cytokine and cytokine re	-0.1227	2.15E-02	-0.0535	3.19E-01
IL17D	cytokine and cytokine re	0.0691	1.97E-01	0.0889	9.69E-02
TGFB2	cytokine and cytokine re	-0.0374	4.85E-01	0.0004	9.94E-01
TGFBR2	cytokine and cytokine re	-0.2787	1.11E-07	-0.2633	5.83E-07
BMP3	cytokine and cytokine re	-0.0447	4.04E-01	-0.0101	8.51E-01
CXCL12	cytokine and cytokine re	-0.1784	7.84E-04	-0.1372	1.02E-02
TNFSF8	cytokine and cytokine re	-0.1765	8.96E-04	-0.1221	2.23E-02
BMPR2	cytokine and cytokine re	-0.1177	2.75E-02	-0.1026	5.52E-02
IL7R	cytokine and cytokine re	-0.1851	4.91E-04	-0.1372	1.02E-02
ILK	cytokine and cytokine re	-0.0012	9.82E-01	0.0176	7.43E-01
TGFB11	cytokine and cytokine re	-0.0918	8.58E-02	-0.0549	3.06E-01
BMP5	cytokine and cytokine re	-0.1467	5.91E-03	-0.1139	3.31E-02
BMP6	cytokine and cytokine re	-0.1225	2.17E-02	-0.0942	7.86E-02
BMPER	cytokine and cytokine re	-0.1948	2.40E-04	-0.1732	1.14E-03
CCR4	cytokine and cytokine re	-0.1389	9.19E-03	-0.0863	1.07E-01

CCR7	cytokine and cytokine re	-0.0941	7.82E-02	-0.0267	6.19E-01
CX3CL1	cytokine and cytokine re	-0.2139	5.35E-05	-0.2003	1.62E-04
IL11RA	cytokine and cytokine re	0.2033	1.25E-04	0.1860	4.69E-04
IL34	cytokine and cytokine re	-0.0274	6.09E-01	0.0312	5.61E-01
TGFB1	cytokine and cytokine re	-0.0548	3.06E-01	-0.0022	9.67E-01
TGFB3	cytokine and cytokine re	-0.1000	6.13E-02	-0.0633	2.38E-01
TGFBR3	cytokine and cytokine re	-0.1884	3.86E-04	-0.1860	4.70E-04
TNFRSF19	cytokine and cytokine re	-0.0027	9.60E-01	-0.0098	8.55E-01
TNFSF10	cytokine and cytokine re	-0.0518	3.33E-01	-0.0399	4.57E-01
TNFSF14	cytokine and cytokine re	0.0940	7.87E-02	0.1128	3.49E-02
BMP4	cytokine and cytokine re	0.0253	6.36E-01	0.0157	7.70E-01
BMPR1B	cytokine and cytokine re	-0.0493	3.58E-01	0.0026	9.61E-01
CCL16	cytokine and cytokine re	-0.3167	1.28E-09	-0.3310	2.16E-10
CSF1	cytokine and cytokine re	-0.1049	4.96E-02	-0.0473	3.78E-01
CSF1R	cytokine and cytokine re	-0.1458	6.20E-03	-0.0746	1.64E-01
CXCL14	cytokine and cytokine re	-0.0705	1.88E-01	-0.0252	6.39E-01
IFNGR1	cytokine and cytokine re	-0.1416	7.90E-03	-0.1256	1.88E-02
IL12B	cytokine and cytokine re	-0.0531	3.22E-01	-0.0011	9.83E-01
IL17RE	cytokine and cytokine re	0.1561	3.37E-03	0.1390	9.20E-03
IL28RA	cytokine and cytokine re	-0.0047	9.30E-01	-0.0130	8.09E-01
IL4R	cytokine and cytokine re	0.0556	2.99E-01	0.0930	8.24E-02
IL5RA	cytokine and cytokine re	-0.1301	1.47E-02	-0.0837	1.18E-01
IL6ST	cytokine and cytokine re	-0.1679	1.59E-03	-0.1635	2.15E-03
TNFSF12	cytokine and cytokine re	-0.0232	6.65E-01	0.0208	6.98E-01
BMP7	cytokine and cytokine re	0.0957	7.33E-02	0.1077	4.42E-02
BMP8A	cytokine and cytokine re	0.2117	6.42E-05	0.2402	5.51E-06
CCL2	cytokine and cytokine re	-0.1523	4.23E-03	-0.0973	6.91E-02
CCR2	cytokine and cytokine re	-0.1156	3.03E-02	-0.0455	3.96E-01
CCR9	cytokine and cytokine re	-0.0387	4.69E-01	-0.0049	9.27E-01

CSF3	cytokine and cytokine re	-0.1143	3.23E-02	-0.0948	7.64E-02
CXCR5	cytokine and cytokine re	0.0022	9.67E-01	0.0718	1.80E-01
IFNAR2	cytokine and cytokine re	0.0583	2.76E-01	0.0953	7.51E-02
IL17B	cytokine and cytokine re	0.0076	8.87E-01	0.0324	5.45E-01
IL2RG	cytokine and cytokine re	-0.0033	9.51E-01	0.0984	6.60E-02
IL31RA	cytokine and cytokine re	-0.0130	8.08E-01	-0.0017	9.74E-01
IL3RA	cytokine and cytokine re	-0.0822	1.24E-01	-0.0468	3.83E-01
IL6R	cytokine and cytokine re	0.0118	8.26E-01	-0.0076	8.88E-01
TNFAIP3	cytokine and cytokine re	0.0293	5.84E-01	0.0688	1.99E-01
TNFAIP8L2	cytokine and cytokine re	-0.0450	4.01E-01	0.0465	3.86E-01
TNFRSF11B	cytokine and cytokine re	0.0436	4.15E-01	0.0936	8.03E-02
CCL17	cytokine and cytokine re	-0.0368	4.92E-01	0.0287	5.93E-01
CCL22	cytokine and cytokine re	-0.1249	1.92E-02	-0.0660	2.18E-01
CCL23	cytokine and cytokine re	-0.1505	4.72E-03	-0.1116	3.69E-02
CCR5	cytokine and cytokine re	-0.0790	1.40E-01	0.0165	7.58E-01
CCRL2	cytokine and cytokine re	-0.0480	3.70E-01	0.0284	5.96E-01
CSF2RA	cytokine and cytokine re	-0.0144	7.88E-01	0.0631	2.39E-01
CSF2RB	cytokine and cytokine re	-0.1148	3.16E-02	-0.0330	5.38E-01
CXCL2	cytokine and cytokine re	-0.1421	7.65E-03	-0.1198	2.50E-02
CXCR2	cytokine and cytokine re	-0.0767	1.51E-01	-0.0375	4.84E-01
CXCR4	cytokine and cytokine re	-0.0025	9.62E-01	0.0847	1.14E-01
IFNAR1	cytokine and cytokine re	-0.2075	8.97E-05	-0.2017	1.45E-04
IL10RA	cytokine and cytokine re	-0.1408	8.25E-03	-0.0724	1.76E-01
IL10RB	cytokine and cytokine re	0.0618	2.48E-01	0.0772	1.49E-01
IL12A	cytokine and cytokine re	0.2515	1.82E-06	0.3056	5.29E-09
IL13RA1	cytokine and cytokine re	-0.1626	2.25E-03	-0.1514	4.53E-03
IL17RC	cytokine and cytokine re	-0.1943	2.51E-04	-0.1941	2.59E-04
IL21R	cytokine and cytokine re	0.0268	6.16E-01	0.1426	7.53E-03
IL24	cytokine and cytokine re	-0.0667	2.13E-01	-0.0245	6.48E-01

IL2RB	cytokine and cytokine re	-0.1291	1.55E-02	-0.0558	2.98E-01
IL6	cytokine and cytokine re	-0.1381	9.58E-03	-0.0852	1.12E-01
ILDR1	cytokine and cytokine re	0.1737	1.09E-03	0.1919	3.06E-04
TGFA	cytokine and cytokine re	0.1087	4.18E-02	0.1389	9.27E-03
TGFBR1	cytokine and cytokine re	0.0739	1.67E-01	0.1164	2.95E-02
TGFBRAP1	cytokine and cytokine re	-0.0115	8.30E-01	-0.0079	8.82E-01
TNFRSF10D	cytokine and cytokine re	-0.0493	3.58E-01	-0.0566	2.91E-01
TNFRSF13B	cytokine and cytokine re	0.0333	5.34E-01	0.1043	5.12E-02
TNFRSF21	cytokine and cytokine re	0.0215	6.88E-01	0.0535	3.18E-01
TNFSF13	cytokine and cytokine re	-0.1781	8.01E-04	-0.1350	1.15E-02
TNFSF15	cytokine and cytokine re	0.0261	6.25E-01	0.0663	2.16E-01
BMPR1A	cytokine and cytokine re	0.1024	5.52E-02	0.0933	8.12E-02
CCL3L3	cytokine and cytokine re	0.0157	7.70E-01	0.0394	4.63E-01
CCR1	cytokine and cytokine re	-0.1671	1.68E-03	-0.1049	4.99E-02
CCR10	cytokine and cytokine re	0.0607	2.57E-01	0.0883	9.92E-02
CCRN4L	cytokine and cytokine re	-0.0787	1.41E-01	-0.0544	3.10E-01
CSF3R	cytokine and cytokine re	-0.0577	2.81E-01	0.0256	6.33E-01
CXCL6	cytokine and cytokine re	-0.0638	2.33E-01	-0.0195	7.17E-01
CXCR2P1	cytokine and cytokine re	-0.0799	1.35E-01	-0.0191	7.22E-01
CXCR6	cytokine and cytokine re	-0.0798	1.36E-01	0.0037	9.45E-01
EPOR	cytokine and cytokine re	0.1250	1.91E-02	0.1240	2.03E-02
IL10	cytokine and cytokine re	-0.1173	2.79E-02	-0.0503	3.48E-01
IL13RA2	cytokine and cytokine re	-0.0023	9.65E-01	0.0410	4.44E-01
IL17RA	cytokine and cytokine re	-0.0121	8.21E-01	0.0106	8.43E-01
IL17RD	cytokine and cytokine re	0.0197	7.13E-01	0.0630	2.40E-01
IL17REL	cytokine and cytokine re	0.0873	1.02E-01	0.1281	1.65E-02
IL18	cytokine and cytokine re	-0.1213	2.30E-02	-0.0458	3.93E-01
IL18BP	cytokine and cytokine re	-0.0831	1.20E-01	-0.0117	8.28E-01
IL1R2	cytokine and cytokine re	-0.0042	9.38E-01	0.0050	9.26E-01

IL1RL1	cytokine and cytokine re	-0.2771	1.32E-07	-0.2502	2.14E-06
IL20	cytokine and cytokine re	-0.0402	4.53E-01	-0.0190	7.23E-01
IL20RA	cytokine and cytokine re	0.1167	2.88E-02	0.1418	7.88E-03
IL23R	cytokine and cytokine re	-0.0093	8.62E-01	0.0154	7.74E-01
IL7	cytokine and cytokine re	-0.1180	2.70E-02	-0.0811	1.30E-01
TGFBI	cytokine and cytokine re	-0.0714	1.82E-01	-0.0848	1.13E-01
TNF	cytokine and cytokine re	-0.0444	4.07E-01	0.0298	5.78E-01
TNFAIP8	cytokine and cytokine re	-0.0053	9.22E-01	0.0848	1.13E-01
TNFRSF10B	cytokine and cytokine re	-0.0753	1.59E-01	-0.0703	1.90E-01
TNFRSF11A	cytokine and cytokine re	0.0905	9.04E-02	0.1342	1.20E-02
TNFRSF14	cytokine and cytokine re	-0.0725	1.76E-01	-0.0385	4.73E-01
TNFRSF1B	cytokine and cytokine re	-0.1330	1.26E-02	-0.0795	1.38E-01
TNFRSF25	cytokine and cytokine re	0.1293	1.53E-02	0.1654	1.90E-03
TNFSF11	cytokine and cytokine re	-0.0568	2.89E-01	-0.0487	3.64E-01
BMP2K	cytokine and cytokine re	-0.1504	4.76E-03	-0.1142	3.27E-02
CCL11	cytokine and cytokine re	-0.0550	3.04E-01	-0.0017	9.75E-01
CCL13	cytokine and cytokine re	-0.0874	1.02E-01	-0.0245	6.47E-01
CCL14-CCL15	cytokine and cytokine re	-0.1260	1.82E-02	-0.1376	9.96E-03
CCL15	cytokine and cytokine re	0.0382	4.76E-01	0.0113	8.34E-01
CCL5	cytokine and cytokine re	-0.1204	2.41E-02	-0.0516	3.35E-01
CXCL1	cytokine and cytokine re	0.0470	3.80E-01	0.0949	7.62E-02
CXCL3	cytokine and cytokine re	0.0707	1.86E-01	0.1197	2.51E-02
CXCL5	cytokine and cytokine re	0.0640	2.32E-01	0.1056	4.85E-02
CXCL9	cytokine and cytokine re	-0.0535	3.18E-01	0.0078	8.84E-01
CXCR3	cytokine and cytokine re	-0.0428	4.24E-01	0.0464	3.86E-01
IL18RAP	cytokine and cytokine re	-0.1015	5.75E-02	-0.0352	5.11E-01
IL1B	cytokine and cytokine re	-0.0218	6.84E-01	0.0624	2.44E-01
IL1RAP	cytokine and cytokine re	-0.0066	9.02E-01	0.0018	9.74E-01
IL1RAPL1	cytokine and cytokine re	0.0324	5.45E-01	0.0453	3.98E-01

IL1RAPL2	cytokine and cytokine re	-0.1245	1.96E-02	-0.1179	2.75E-02
IL1RL2	cytokine and cytokine re	-0.0603	2.60E-01	-0.0405	4.51E-01
IL20RB	cytokine and cytokine re	0.1131	3.41E-02	0.1357	1.10E-02
IL22RA1	cytokine and cytokine re	0.1442	6.80E-03	0.1438	7.04E-03
IL22RA2	cytokine and cytokine re	0.0271	6.13E-01	0.0700	1.91E-01
IL26	cytokine and cytokine re	0.0385	4.72E-01	0.0829	1.21E-01
IL27RA	cytokine and cytokine re	0.1167	2.89E-02	0.1818	6.32E-04
IL9R	cytokine and cytokine re	0.0227	6.72E-01	0.0681	2.04E-01
TNFRSF10A	cytokine and cytokine re	-0.1087	4.19E-02	-0.0917	8.65E-02
TNFRSF10C	cytokine and cytokine re	-0.0303	5.72E-01	-0.0079	8.83E-01
TNFRSF13C	cytokine and cytokine re	0.1302	1.46E-02	0.1955	2.34E-04
TNFRSF1A	cytokine and cytokine re	-0.1330	1.26E-02	-0.1167	2.90E-02
XCL1	cytokine and cytokine re	0.0367	4.93E-01	0.0999	6.19E-02
XCL2	cytokine and cytokine re	-0.0189	7.24E-01	0.0475	3.75E-01
BMP1	cytokine and cytokine re	-0.2029	1.30E-04	-0.2065	9.93E-05
BMP10	cytokine and cytokine re	-0.1357	1.09E-02	-0.1158	3.03E-02
BMP2	cytokine and cytokine re	-0.0325	5.44E-01	-0.0180	7.37E-01
CCL24	cytokine and cytokine re	-0.0808	1.31E-01	-0.0496	3.55E-01
CCL26	cytokine and cytokine re	0.1730	1.14E-03	0.2150	5.01E-05
CCL28	cytokine and cytokine re	0.0723	1.76E-01	0.0801	1.35E-01
CCL4	cytokine and cytokine re	-0.1020	5.61E-02	-0.0259	6.29E-01
CCL8	cytokine and cytokine re	-0.0725	1.75E-01	-0.0248	6.44E-01
CSF2	cytokine and cytokine re	0.0846	1.14E-01	0.1266	1.78E-02
CXCL10	cytokine and cytokine re	-0.0535	3.18E-01	-0.0068	9.00E-01
CXCL11	cytokine and cytokine re	-0.0706	1.87E-01	-0.0210	6.96E-01
CXCL13	cytokine and cytokine re	0.0582	2.77E-01	0.1117	3.68E-02
CXCL16	cytokine and cytokine re	0.0088	8.69E-01	0.0309	5.64E-01
CXCL17	cytokine and cytokine re	0.0627	2.41E-01	0.0752	1.61E-01
IL12RB1	cytokine and cytokine re	-0.0708	1.86E-01	0.0233	6.63E-01

IL17RB	cytokine and cytokine re	0.1917	3.05E-04	0.1845	5.21E-04
IL18R1	cytokine and cytokine re	-0.1460	6.15E-03	-0.1029	5.44E-02
IL1F9	cytokine and cytokine re	0.1106	3.84E-02	0.1037	5.26E-02
IL2	cytokine and cytokine re	0.0258	6.30E-01	0.0567	2.90E-01
IL23A	cytokine and cytokine re	-0.0577	2.81E-01	-0.0275	6.08E-01
IL2RA	cytokine and cytokine re	-0.0240	6.54E-01	0.0742	1.66E-01
ILKAP	cytokine and cytokine re	0.2683	3.36E-07	0.2747	1.78E-07
TNFAIP2	cytokine and cytokine re	0.0834	1.19E-01	0.1205	2.42E-02
TNFAIP6	cytokine and cytokine re	0.0525	3.27E-01	0.1128	3.50E-02
TNFRSF4	cytokine and cytokine re	0.1376	9.87E-03	0.1928	2.84E-04
TNFRSF6B	cytokine and cytokine re	0.0769	1.50E-01	0.1105	3.89E-02
TNFSF13B	cytokine and cytokine re	-0.0846	1.14E-01	-0.0028	9.58E-01
TNFSF18	cytokine and cytokine re	-0.0601	2.61E-01	-0.0331	5.37E-01
BMP8B	cytokine and cytokine re	0.2278	1.63E-05	0.2261	1.95E-05
CCL18	cytokine and cytokine re	-0.1415	7.94E-03	-0.0926	8.37E-02
CCL20	cytokine and cytokine re	0.1877	4.06E-04	0.2190	3.59E-05
CCL27	cytokine and cytokine re	0.1678	1.61E-03	0.1795	7.40E-04
CCL4L2	cytokine and cytokine re	-0.0088	8.70E-01	0.0633	2.37E-01
CCR3	cytokine and cytokine re	0.0780	1.45E-01	0.1210	2.36E-02
CCR8	cytokine and cytokine re	-0.0200	7.08E-01	0.0463	3.88E-01
IFNG	cytokine and cytokine re	-0.0017	9.74E-01	0.0659	2.19E-01
IFNGR2	cytokine and cytokine re	0.1868	4.35E-04	0.2263	1.93E-05
IL15RA	cytokine and cytokine re	0.0421	4.32E-01	0.1020	5.65E-02
IL1F7	cytokine and cytokine re	0.2478	2.61E-06	0.2567	1.13E-06
IL1RN	cytokine and cytokine re	-0.0734	1.70E-01	-0.0650	2.25E-01
IL27	cytokine and cytokine re	-0.1580	2.99E-03	-0.1665	1.77E-03
IL32	cytokine and cytokine re	-0.1477	5.56E-03	-0.1228	2.16E-02
IL4I1	cytokine and cytokine re	0.1036	5.26E-02	0.2026	1.36E-04
IL5	cytokine and cytokine re	0.0633	2.37E-01	0.0594	2.68E-01

IL8	cytokine and cytokine re	0.0344	5.20E-01	0.0804	1.33E-01
ILDR2	cytokine and cytokine re	0.0806	1.32E-01	0.0922	8.49E-02
ILF3	cytokine and cytokine re	0.3800	1.68E-13	0.3776	2.64E-13
ILVBL	cytokine and cytokine re	-0.1956	2.27E-04	-0.2094	7.90E-05
TNFRSF17	cytokine and cytokine re	-0.0347	5.17E-01	0.0390	4.67E-01
TNFRSF18	cytokine and cytokine re	0.0829	1.21E-01	0.1717	1.26E-03
TNFRSF8	cytokine and cytokine re	-0.0503	3.48E-01	0.0490	3.61E-01
TNFSF12-TNFSF13	cytokine and cytokine re	-0.0883	9.85E-02	-0.0308	5.66E-01
TNFSF4	cytokine and cytokine re	0.2993	1.07E-08	0.3064	4.84E-09
CCL25	cytokine and cytokine re	0.1248	1.93E-02	0.1203	2.45E-02
CCL3L1	cytokine and cytokine re	0.0686	2.00E-01	0.1156	3.06E-02
CXCR1	cytokine and cytokine re	-0.1047	5.00E-02	-0.0779	1.46E-01
EPO	cytokine and cytokine re	0.1397	8.75E-03	0.1616	2.43E-03
IL12RB2	cytokine and cytokine re	-0.1550	3.61E-03	-0.1187	2.64E-02
IL13	cytokine and cytokine re	0.0453	3.98E-01	0.0609	2.56E-01
IL15	cytokine and cytokine re	-0.0542	3.12E-01	0.0285	5.95E-01
IL29	cytokine and cytokine re	-0.0077	8.86E-01	0.0251	6.40E-01
ILF2	cytokine and cytokine re	0.5512	2.77E-29	0.5525	2.33E-29
TNFAIP1	cytokine and cytokine re	-0.0866	1.05E-01	-0.0961	7.25E-02
TNFAIP8L1	cytokine and cytokine re	-0.2070	9.35E-05	-0.2046	1.16E-04
TNFRSF12A	cytokine and cytokine re	-0.0546	3.08E-01	-0.0411	4.43E-01
TNFRSF9	cytokine and cytokine re	0.0102	8.49E-01	0.0685	2.01E-01
TNFSF9	cytokine and cytokine re	0.1600	2.65E-03	0.2116	6.59E-05
CCL3	cytokine and cytokine re	-0.0882	9.88E-02	-0.0266	6.20E-01
CCL7	cytokine and cytokine re	-0.0840	1.16E-01	-0.0422	4.31E-01
IL11	cytokine and cytokine re	0.2062	9.98E-05	0.2296	1.44E-05
IL17C	cytokine and cytokine re	0.0363	4.98E-01	0.0498	3.53E-01
IL1A	cytokine and cytokine re	0.0793	1.38E-01	0.1077	4.40E-02
CXCL10	pro-inflammatory genes	-0.0535	3.18E-01	-0.0068	9.00E-01

CXCL9	pro-inflammatory genes	-0.0535	3.18E-01	0.0078	8.84E-01
IFNG	pro-inflammatory genes	-0.0017	9.74E-01	0.0659	2.19E-01
GZMB	pro-inflammatory genes	-0.1180	2.70E-02	-0.0699	1.92E-01
CXCL13	pro-inflammatory genes	0.0582	2.77E-01	0.1117	3.68E-02
STAT1	pro-inflammatory genes	0.0456	3.94E-01	0.0954	7.47E-02
IRF1	pro-inflammatory genes	0.0257	6.31E-01	0.1074	4.47E-02
CCL5	pro-inflammatory genes	-0.1204	2.41E-02	-0.0516	3.35E-01
GNLY	pro-inflammatory genes	-0.0378	4.80E-01	-0.0003	9.95E-01
TBX21	pro-inflammatory genes	-0.1340	1.20E-02	-0.0763	1.54E-01
CD8B	pro-inflammatory genes	-0.0556	2.99E-01	0.0240	6.55E-01
PRF1	pro-inflammatory genes	-0.1626	2.24E-03	-0.1094	4.07E-02
IL12A	pro-inflammatory genes	0.2515	1.82E-06	0.3056	5.29E-09
IL12B	pro-inflammatory genes	-0.0531	3.22E-01	-0.0011	9.83E-01
CD19	pro-inflammatory genes	0.0837	1.18E-01	0.1519	4.40E-03