

Raw counts

Gene	ex vivo Treg	ex vivo Treg	ex vivo Treg	expTreg x2	expTreg x2	expTreg x2	expTreg x6	expTreg x6	expTreg x5	expTreg x2restim	expTreg x2restim
ACACA	23	26	12	93	102	57	130	103	148	116	116
ACAD10	54	109	33	324	190	153	235	264	319	170	160
ACADVL	652	857	340	5030	4117	5153	9972	11196	8487	5996	7830
ACOT2	74	116	77	185	181	310	514	421	312	235	201
ACSF2	29	63	35	130	101	103	232	181	143	125	112
ACSL5	143	220	69	1027	756	883	2714	1397	1034	1406	744
ACTN1	79	94	27	718	236	552	1747	1093	1177	1493	729
ACVR1B	46	46	48	41	48	263	65	61	153	78	42
ACVR1C	39	84	37	109	142	173	658	426	329	133	232
ACVR2A	33	66	45	62	72	108	41	83	101	47	46
ADAR	702	815	300	2889	2144	3603	5558	6031	4744	3642	3293
ADD1	315	417	129	1757	1585	2212	3477	3725	3843	2449	2300
ADORA2A	46	118	56	329	251	128	245	471	132	147	153
AFDN	68	107	95	720	478	694	858	1089	2826	824	660
AHR	1188	1632	727	1224	1464	3342	5866	3824	3302	2865	2444
AKT1	103	169	92	394	499	501	865	978	787	428	434
AKT2	375	504	261	1007	970	1097	1741	1866	1579	1188	1155
ALDH1L1	13	20	20	11	18	24	6	24	15	13	10
ALDH1L2	7	5	1	7	6	12	6	8	11	5	7
ALDH3A2	174	208	104	1080	572	930	1056	1634	1230	1255	764
ALDH8A1	47	57	28	115	91	59	39	58	110	55	52
ALDOA	866	1123	405	3591	4160	6911	10033	10221	8820	7691	6828
ALDOC	153	210	129	369	222	271	292	169	1274	118	89
ANGPT2	26	66	33	27	33	25	14	26	25	15	12
APC	72	111	49	171	117	180	222	248	233	118	120
ARAF	77	112	49	155	179	109	146	199	205	119	79
AREG	39	29	34	21	32	165	17	120	75	33	44
ATG14	122	148	75	488	240	443	422	378	504	199	224
ATG7	194	272	145	885	526	323	448	486	1013	493	424
ATP5MF	194	235	58	1355	1570	2652	4009	3858	3178	3688	3032
ATP5MG	266	321	145	799	770	1217	1793	1625	1311	940	816
ATP5PD	191	221	88	820	731	1119	1938	1804	1297	1060	907
ATP6V1F	258	336	136	1084	1170	2045	2415	2778	1923	1533	1272
AURKA	38	60	34	123	161	223	397	412	450	368	361
B3GAT1	8	14	1	12	17	7	5	12	16	12	13
BATF	265	360	121	1144	1253	1751	1626	2690	1080	1982	2126
BATF3	13	44	22	65	463	579	1941	1241	3691	2012	3266
BCL2	329	422	154	1514	913	868	642	1084	1437	263	434
BCL2L1	48	100	28	867	616	921	1602	2126	2976	1526	1148
BCL6	225	223	191	236	230	120	35	82	252	212	49
BID	51	70	42	208	88	114	181	239	110	135	95
BLK	25	20	3	22	60	11	493	20	16	31	31
BTBD6	75	117	43	191	201	241	356	410	407	318	287
BUB1	42	85	40	435	487	475	1525	1664	1038	1013	978
C3	20	23	13	18	19	24	13	7	131	54	13
CALM1	310	291	123	419	539	1126	998	1230	1454	780	762
CARD10	13	29	8	16	10	21	10	14	26	7	4
CASP3	236	279	129	2416	1778	3810	9647	10362	3797	6373	5887
CASP8	2361	3257	1622	9749	9267	5468	6888	7884	4706	1952	3688
CBR4	70	116	39	600	455	387	917	817	768	720	667
CCL1	20	50	31	29	31	1147	15	29	65162	62	12
CCL11	42	77	52	34	35	43	40	44	26	18	11
CCL13	14	35	25	25	18	23	7	9	28	10	5
CCL14	20	22	17	15	18	37	11	21	17	11	11
CCL15	26	48	39	38	34	18	24	34	26	12	14
CCL16	19	36	23	15	17	24	8	20	26	11	14
CCL17	13	29	21	43	37	143	831	76	727	782	364
CCL18	17	46	47	38	38	1817	24	35	537	62	118
CCL19	22	46	38	31	39	25	17	31	34	24	22
CCL2	12	36	12	13	22	17	4	10	135	5	7
CCL20	327	284	219	43	63	34	15	37	34	59	24
CCL21	17	35	33	19	14	18	12	19	14	5	4
CCL22	20	40	34	55	28	32	2	16	28	58	4
CCL23	21	62	28	27	42	165	58	51	139	39	95
CCL24	11	16	7	20	27	25	11	19	21	8	12
CCL25	29	53	38	36	42	45	35	50	39	17	27
CCL26	29	39	23	31	29	25	13	21	21	12	12
CCL27	10	22	14	12	14	10	13	13	13	19	17
CCL28	70	133	52	530	373	476	816	603	498	370	410
CCL3/L1	55	97	100	151	2247	8558	2288	10075	24375	19846	22340
CCL4/L1	13	17	10	20	1148	4713	595	5198	25663	7228	11978
CCL5	34	64	26	379	1070	9187	6706	3412	16943	8440	5725

CCL7	5	4	4	12	16	5	11	5	18	18	9
CCL8	24	49	42	41	24	10	1	12	34	1	1
CCNC	138	172	49	683	569	1208	1845	1914	1073	1465	1080
CCR2	44	72	37	141	47	46	21	26	98	26	17
CCR3	49	58	36	46	43	39	29	32	38	12	11
CCR4	837	1092	287	7264	5293	3191	8980	10632	4904	11626	8635
CCR5	28	39	19	77	53	42	52	82	76	31	24
CCR6	230	335	129	54	51	35	29	148	59	120	70
CCR7	802	742	222	933	780	331	2692	1535	1341	1840	1472
CCR8	87	269	96	1119	191	518	164	1128	3271	2516	832
CD14	39	44	37	24	27	29	19	32	32	14	16
CD160	12	39	25	20	24	23	7	29	25	13	15
CD163	21	40	34	8	18	19	8	14	21	2	5
CD19	15	38	18	24	19	23	11	29	18	15	8
CD1A	32	71	38	26	27	31	16	21	28	9	5
CD1D	8	12	5	26	21	13	12	16	21	10	13
CD200	108	135	52	61	166	225	679	320	558	289	402
CD209	24	51	30	29	33	28	13	21	27	13	5
CD22	28	50	31	20	16	17	7	22	15	9	1
CD226	147	307	63	953	1793	2878	2422	3310	1480	2456	2552
CD244	20	33	16	23	21	16	12	17	21	8	4
CD247	553	849	338	1890	1115	1328	760	1285	1891	604	558
CD27	87	117	29	1178	801	259	53	2442	16	630	491
CD274	31	13	11	44	37	121	24	22	245	37	14
CD276	13	46	35	38	46	249	62	134	645	289	234
CD28	669	659	195	1848	1529	898	1474	2433	82	1116	1129
CD300C	13	4	3	17	19	15	8	10	16	4	6
CD300E	11	28	22	19	20	19	14	17	14	2	3
CD300LF	5	4	1	6	8	7	6	7	10	6	7
CD33	19	36	20	253	23	97	54	51	295	109	23
CD38	36	87	40	325	78	148	27	239	396	48	26
CD3D	1268	1363	339	6509	6392	10097	19050	16176	9197	8519	6843
CD3E	919	1291	307	5353	4386	5841	10058	9957	4970	5392	5111
CD3G	273	363	99	1678	1169	1151	2650	3034	907	1338	954
CD4	165	251	72	3079	3066	3981	5214	6435	2945	3557	3572
CD40	24	29	24	60	45	155	26	73	286	47	37
CD40LG	461	234	86	151	141	1317	559	350	5798	879	514
CD45R0	982	1741	404	2748	4061	4776	3788	8042	4225	3812	7064
CD45RA	426	348	454	124	99	126	106	197	193	79	45
CD45RC	20	20	13	64	42	53	58	67	88	57	34
CD52	1967	3010	487	13074	7789	9481	5759	8985	4540	2311	1432
CD6	301	764	259	592	1685	1653	1564	2447	658	369	1144
CD68	57	84	47	263	83	260	286	293	95	255	132
CD69	977	1204	1195	891	623	362	67	257	1514	419	430
CD7	355	337	95	1075	1070	2210	67	1799	1077	1237	720
CD80	62	93	48	2549	1142	1381	2263	3047	6008	2637	1773
CD84	398	780	212	785	1017	1242	1833	1757	1403	322	591
CD86	19	49	31	153	267	234	1252	877	194	173	543
CD8A	37	62	31	27	61	72	18	38	83	108	33
CD8B	21	51	43	103	54	34	17	27	24	124	13
CD9	9	16	7	226	199	1065	249	994	1693	1027	198
CD96	291	425	143	1672	787	2938	816	1445	3707	989	958
CD99	98	141	68	104	158	560	172	291	530	172	127
CDC26	271	303	65	814	826	1116	1476	1856	1269	1561	1101
CDC42	1384	1676	695	3341	3013	6498	6829	8259	9604	6466	5128
CDKN1A	352	377	257	376	414	1878	2412	1534	4375	1689	1435
CEACAM1	23	53	31	567	357	237	139	323	1219	152	219
CEACAM3	16	11	19	15	8	11	4	4	6	1	1
CHMP3	237	385	143	792	728	812	1141	919	970	593	575
CHMP4A	476	567	213	2101	1917	2249	3070	3371	3416	2820	2476
CIITA	27	42	9	546	281	92	1276	535	530	367	411
CISH	44	59	37	922	518	1009	1575	1668	1938	408	469
CKAP5	69	89	33	397	459	645	1315	1448	1302	932	905
CLCF1	58	76	52	36	58	256	30	54	483	54	82
CLDN1	10	5	6	13	11	6	7	9	15	16	12
CLDN23	17	36	37	17	19	31	32	24	24	23	17
CLDN3	13	32	26	14	19	25	17	29	24	18	20
CLDN4	24	35	15	28	34	18	10	20	32	7	9
CLDN7	7	15	20	18	14	11	7	22	10	8	12
CMIP	59	81	38	118	79	118	104	120	204	77	60
CMKLR1	9	45	28	26	17	21	3	20	9	2	1
COLEC12	27	76	41	30	31	39	31	40	16	12	13
COX16	60	120	75	346	410	568	1174	1027	566	643	629
COX19	134	149	45	262	158	146	242	219	236	145	125

COX4I1	1172	1212	558	4042	3591	5800	8654	7508	6181	6330	5086
COX5B	445	557	203	2046	2214	3457	5600	5300	4241	3720	3160
COX6B1	411	652	223	2734	2462	4210	6531	6408	4846	4710	3857
COX6C	561	593	255	2968	2892	5692	10279	9422	5851	7805	5990
COX7A2	432	519	163	1918	1809	4048	6622	6326	4347	4771	3927
COX7B	614	714	253	2195	1922	4502	6161	6286	4663	5022	3754
COX7C	398	457	232	1016	833	1349	2191	2183	1363	1328	986
CPA3	32	68	42	18	34	28	11	24	18	1	1
CPT1A	58	73	18	549	457	568	852	992	861	646	615
CPT1B	98	156	75	382	219	119	132	263	290	160	114
CREB1	265	368	139	1018	619	951	1074	1253	1478	788	789
CRLF2	23	47	21	85	34	369	17	21	3161	105	55
CS	432	480	215	1389	1239	1873	4114	3758	2618	2958	2394
CSF2	9	15	8	17	18	158	16	83	16023	645	261
CSF2RA	16	28	24	25	19	55	10	17	656	16	16
CSF3	14	13	8	11	15	13	10	5	13	5	12
CSF3R	39	68	55	21	28	24	20	23	17	13	8
CTLA4	3438	3744	1462	17203	10218	7292	2725	19660	2914	22693	14224
CTNNA1	75	157	67	582	929	3137	1852	2765	4115	2479	2253
CTNNB1	955	1036	455	3499	2595	4138	5189	6381	6755	6736	4932
CTNND1	42	66	37	81	47	47	41	63	174	21	26
CTSD	91	149	59	1161	965	2066	1320	1642	1980	1029	959
CTSW	30	80	39	165	352	644	176	475	3518	211	421
CX3CL1	24	39	28	23	24	24	10	18	27	11	15
CX3CR1	31	56	26	83	49	49	21	102	104	72	32
CXCL1	24	35	33	29	25	26	235	50	54	63	30
CXCL10	26	41	31	32	46	38	623	96	71	81	893
CXCL11	36	74	51	26	33	47	53	32	21	1	1
CXCL12	11	18	16	12	15	25	13	19	19	17	19
CXCL13	3	5	4	11	16	20	7	9	20	15	8
CXCL14	32	57	40	40	38	32	31	44	34	14	8
CXCL16	10	6	7	13	11	33	43	16	81	16	19
CXCL2	23	54	81	219	273	71	1214	868	285	436	858
CXCL3	33	58	55	27	57	56	169	30	76	23	34
CXCL5	30	48	32	26	38	24	37	19	32	25	16
CXCL6	17	35	20	17	27	27	113	26	18	13	17
CXCL8	60	95	552	931	1749	1943	7593	1865	1844	13969	7584
CXCL9	23	52	39	32	39	54	12	20	170	5	1
CXCR3	118	162	41	241	426	140	236	315	296	533	348
CXCR4	5100	6477	5052	7552	4839	6491	17984	13838	6253	5588	8552
CXCR5	37	51	18	29	19	15	11	20	14	9	10
CXCR6	89	142	75	480	827	1001	15	256	978	689	215
CYBB	27	48	31	31	37	21	16	19	31	12	6
DAP3	412	502	185	1793	1420	1638	2576	2847	2809	2109	1756
DDIT4	311	477	318	118	164	217	77	186	678	306	266
DEC1	176	235	41	1361	1218	1209	2693	3138	1512	1959	1730
DGLUCY	189	343	41	1640	1065	433	768	1180	720	446	427
DHFR2	33	65	36	209	127	209	238	291	159	148	159
DHRS4	85	142	122	386	334	503	726	566	628	430	290
DIABLO	202	262	117	412	353	599	913	823	697	519	428
DLL1	7	4	7	12	8	15	6	10	21	11	4
DOCK2	737	1061	427	2668	2307	1997	4804	3861	4904	2831	2659
DUSP1	4289	6835	5957	2263	7760	195	136	170	5152	482	856
DVL2	87	125	35	334	318	364	673	550	495	330	365
EBI3	19	30	20	283	195	400	1369	783	1682	1300	865
EGF	25	24	25	16	26	29	11	10	21	6	8
EGR1	228	363	266	203	444	147	46	336	505	164	273
ENTPD1	182	398	47	1441	1782	4229	6121	6972	10643	6916	7257
ENTPD2	16	26	18	19	19	18	10	19	12	7	10
EOMES	6	10	8	5	11	15	7	11	10	2	1
ERAP2	257	747	209	1749	3287	567	904	6532	1462	367	2939
FAM30A	20	40	37	25	35	41	21	77	22	45	28
FAS	657	967	207	1731	1464	1068	4967	2703	1590	1055	1294
FASLG	16	44	24	17	25	40	31	49	118	83	47
FASN	250	173	112	625	609	333	1458	1014	951	1094	1215
FCAR	18	49	37	27	27	28	16	31	25	8	5
FCGR3A/B	52	103	72	38	59	52	15	46	51	17	1
FCRL2	25	34	24	22	29	23	12	25	20	7	10
FCRL3	143	453	26	569	356	120	56	615	12	178	291
FH	92	148	69	763	624	938	1875	1950	1518	2000	1434
FKBP1A	22	33	13	91	85	183	266	268	261	218	165
FLCN	93	161	76	841	548	599	422	531	940	299	450
FNIP1	220	290	147	697	544	1181	1452	1001	1292	484	572
FOS	1607	2419	4909	1670	7532	208	43	193	4345	595	1160

FOSB	2165	3006	3826	492	1355	103	88	117	2309	327	332
FOXO1	761	1046	534	1079	896	810	1043	1457	721	936	923
FOXP3	346	500	78	1955	1295	811	1997	3902	1116	2355	1732
FOXP3_delta2	663	948	232	2950	2782	2038	4229	8795	2350	5344	3715
FOXP3_delta7	70	53	17	321	288	196	370	760	261	549	396
FPR1	12	13	13	14	11	11	12	12	12	5	5
FUT4	63	106	50	178	191	272	461	377	332	184	219
FUT7	103	182	55	396	1330	1446	1667	2656	683	1604	1058
FYN	1605	1634	646	1752	1002	1652	690	1165	1436	2058	963
GADD45B	1123	1631	2074	627	873	394	285	475	986	145	145
GARS	390	399	286	1423	1410	1679	2693	2691	2017	2419	1811
GART	148	159	70	956	750	716	1709	1790	1276	1598	1353
GATA3	755	1112	527	2395	1756	10944	2427	5498	15285	6147	3087
GFER	38	82	36	89	99	166	197	226	160	121	107
GFM1	101	157	69	559	415	659	870	1090	986	775	581
GLS	1422	1758	904	2381	1944	2568	2396	3859	4009	3463	2828
GLS2	12	39	16	32	22	45	37	48	39	24	22
GLUD1/2	778	1053	500	1886	2397	4394	5115	7138	3994	5444	4630
GNAI2	1282	1767	616	6758	6155	7916	14508	14680	11936	8175	7825
GNG10	36	56	28	270	274	268	303	595	305	303	231
GNLY	16	23	16	16	15	227	8	8	621	1	1
GOT1	38	53	29	93	99	106	231	259	264	231	197
GPI	195	311	142	1057	1080	1640	3276	3626	1964	2369	2079
GRK2	507	729	423	2160	2460	2333	6452	5643	4133	3558	3667
GRK4	8	21	13	26	19	24	20	25	48	32	22
GRPEL1	103	81	66	85	107	144	235	298	163	199	147
GZMA	61	125	49	31	467	4772	44	66	22560	22	243
GZMB	38	62	33	58	486	61608	289	538	164176	2603	2558
GZMH	14	25	26	24	28	22	14	18	76	16	13
GZMK	63	125	50	20	45	36	10	13	31	8	1
GZMM	55	75	34	95	237	141	406	153	51	86	138
HACD4	104	166	28	820	905	634	1558	2090	512	369	707
HADHB	201	233	76	1052	939	1485	2977	2753	1587	1807	1203
HAVCR2	46	71	26	754	660	2128	465	1432	4063	1826	1546
HDAC7	146	234	95	698	520	266	487	733	425	818	607
HDAC8	62	89	19	685	476	381	495	570	864	454	447
HDC	18	33	26	20	37	27	12	19	23	6	1
HIF1A	821	872	592	1287	1195	3676	3263	3476	5180	3068	2998
HK2	67	120	71	155	131	126	237	403	392	406	253
HK3	14	16	15	23	21	14	5	11	16	11	8
HLA-DQA1	94	5	2	2368	7	10	56319	4	5	7526	9
HLA-DRA	246	211	183	10665	8116	13630	141022	42038	30614	28710	20654
HLA-DRB1	401	445	430	4346	2725	5899	31946	10660	13099	4869	3247
HLA-E	2188	3032	1070	10387	5646	7106	8927	10460	5389	4266	4306
HMGCR	78	95	56	669	664	756	1419	1353	1070	1353	1371
HNF1A	27	42	28	62	54	32	36	33	34	26	13
HSD11B1	18	42	31	23	40	30	15	26	42	23	4
HSPA9	383	495	205	564	471	845	1168	1327	1126	1427	1049
HSPE1	1859	2505	638	2302	2508	3182	6576	6263	3921	7470	5426
ICAM1	63	130	54	406	280	507	779	453	2568	752	611
ICOS	1305	1167	351	2014	1210	1095	1376	2473	1118	4364	2016
ICOSLG	149	189	95	181	161	144	484	338	75	112	76
ID2	152	217	272	200	459	2691	765	1269	9544	1513	1803
IDH3A	191	184	74	781	671	993	2168	2114	1149	2249	1478
IDO1	27	34	35	22	19	30	14	19	26	11	8
IDO2	13	42	14	17	19	27	20	19	16	14	18
IFI30	20	38	52	175	192	283	536	402	573	310	290
IFI35	32	44	10	284	231	186	333	438	291	276	231
IFI6	22	39	14	154	93	149	239	192	119	102	100
IFIT1	9	38	68	16	19	23	9	14	20	12	8
IFIT2	94	114	890	58	49	50	65	53	63	61	34
IFIT3	17	29	101	56	29	25	37	18	27	34	24
IFITM3	128	226	180	161	193	126	69	102	156	92	35
IFNA1	55	137	109	45	60	70	23	57	37	11	17
IFNAR1	379	373	83	1252	793	1872	2168	1838	2072	1449	1240
IFNB1	25	44	41	23	23	25	8	18	18	19	15
IFNG	137	222	82	28	139	657	30	86	2062	378	196
IFNGR1	210	257	181	497	525	855	796	929	1177	463	614
IFNGR2	70	84	44	379	107	138	419	568	163	184	146
IGF1R	24	24	19	52	24	62	28	42	90	27	23
IKBKE	249	533	94	1398	716	382	675	959	708	598	421
IKZF2	891	1083	215	3313	402	543	87	3881	615	2813	748
IKZF4	73	109	36	273	147	644	608	736	866	598	425
IL10	15	18	21	16	796	573	13	473	13	278	1484

IL10RA	1875	2626	901	6077	3800	3985	1482	2280	9875	542	755
IL11	12	26	21	22	21	26	26	32	30	8	17
IL12A	33	38	36	57	94	56	417	262	56	57	150
IL12B	21	65	49	25	32	38	16	28	22	33	15
IL12RB1	134	224	63	1166	628	550	583	861	672	392	370
IL12RB2	138	194	93	1116	1066	1279	1898	2630	1633	2431	2271
IL13	32	70	36	32	39	1914	31	35	13205	1052	162
IL15	37	59	35	50	59	78	105	52	141	35	34
IL16	563	696	196	4337	1514	1120	1860	1955	1864	1473	925
IL17A	37	3	3	4	9	3	5	31	6	8	23
IL17C	21	45	24	29	24	33	13	16	17	16	13
IL17F	41	101	55	32	38	44	16	39	26	17	13
IL18	23	52	27	42	53	33	23	40	48	36	21
IL18BP	52	74	40	70	47	50	66	59	67	31	27
IL19	6	11	9	8	18	11	7	12	9	9	11
IL1A	17	54	28	298	598	1555	2943	1043	2740	3595	2269
IL1B	32	50	29	27	34	27	19	21	41	32	11
IL1F10	19	33	12	19	11	14	13	16	20	17	6
IL1R1	44	30	17	644	154	53	56	1029	13	406	360
IL1RN	14	29	27	57	49	100	26	140	98	289	116
IL2	31	54	35	24	26	19	14	17	118	14	7
IL20	30	56	41	28	26	32	10	31	26	10	9
IL21	35	51	22	19	22	25	6	13	37	36	13
IL21R	318	281	62	624	751	416	1942	1315	627	815	941
IL22	13	32	24	30	28	24	8	9	82	30	9
IL23A	110	163	118	217	136	123	102	271	137	365	276
IL23R	27	44	31	49	83	31	424	417	50	144	241
IL24	23	37	32	24	21	34	17	44	22	22	26
IL25	13	33	14	17	16	19	3	8	11	1	1
IL26	30	88	44	32	79	52	18	40	52	19	25
IL27	27	30	25	31	24	20	10	27	21	6	3
IL2RA	1170	1367	300	21140	14155	24759	27212	51613	47661	38503	35788
IL2RB	490	649	136	2046	2252	4894	2896	5308	6354	4571	4390
IL2RG	1688	2014	427	9691	7863	10558	12675	16171	12189	8142	8696
IL3	24	51	33	23	23	30	14	25	2282	22	12
IL31	26	44	27	28	30	24	21	26	23	11	12
IL32	2722	3686	458	37494	43762	100322	119394	136333	87897	49899	50061
IL33	59	92	59	51	56	51	35	39	42	25	36
IL34	12	11	11	33	25	19	20	15	14	13	5
IL36A	33	52	34	51	43	22	34	40	31	27	23
IL36B	5	14	7	13	9	10	8	9	12	7	6
IL36G	12	31	12	20	30	18	11	23	28	15	18
IL36RN	20	38	15	24	30	12	14	35	21	9	8
IL37	17	49	19	40	44	26	20	42	28	15	43
IL3RA	7	8	10	34	39	565	28	53	2588	203	133
IL4	40	47	26	12	21	86	17	30	168	39	35
IL4R	217	265	96	619	297	1189	624	714	2458	430	546
IL5	20	41	21	12	26	2712	41	20	3565	185	119
IL6	8	19	13	20	23	14	16	8	21	9	7
IL6R	163	197	56	223	276	79	321	243	47	67	53
IL6ST	2301	1778	1561	2845	1454	2309	4470	3992	1389	854	1143
IL7	34	56	35	39	71	48	35	53	46	16	18
IL7R	511	559	145	26	22	104	14	23	71	11	10
IL9	6	7	9	17	17	29	7	10	35	68	119
IRF1	338	480	545	585	778	183	170	299	518	187	150
IRF3	85	129	42	280	189	102	184	207	164	80	79
IRF4	739	669	413	4099	2415	2367	4977	6480	2578	4652	2979
IRF5	20	53	26	229	121	339	571	467	801	531	309
IRF6	35	37	32	21	36	46	17	35	73	27	18
IRF7	183	204	114	352	308	125	167	198	298	126	98
IRF8	20	21	23	11	13	7	10	23	17	6	6
IRF9	556	896	550	2301	1667	1142	1524	1838	1672	848	850
ISG15	219	397	224	401	681	382	560	1040	250	424	383
ITGAM	56	69	37	1551	396	141	370	859	482	298	164
ITGB2	390	676	213	2442	1541	1004	1483	1974	2146	1050	1024
ITGB8	41	75	37	229	123	204	285	421	36	1023	297
JAG1	12	7	9	16	11	7	18	8	25	9	15
JAK1	1230	1735	939	1992	1638	1837	2464	2747	2406	1004	1259
JAK2	90	156	65	1583	803	543	1523	2016	1140	868	803
JUN	1514	2052	2280	2400	6965	1417	642	797	8472	1495	1566
JUNB	2434	3795	2862	824	1706	623	1173	1240	1719	839	874
KIR3DL1/2	126	326	293	107	141	231	40	136	144	38	9
KLF2	2634	4469	2436	7179	5021	2057	1681	5074	779	126	271
KLRB1	658	380	153	86	101	290	90	164	353	42	54

KLRC1/2	33	93	45	46	61	53	18	35	147	9	12
KLRD1	24	67	47	78	49	184	19	31	302	53	19
KLRF1	9	12	8	24	19	10	14	8	8	13	11
KLRG1	73	114	51	110	88	43	51	68	21	27	18
KLRK1	19	44	16	27	38	28	32	20	130	21	22
KYAT1	18	43	19	174	114	63	152	181	93	75	87
LAG3	52	34	17	1363	5012	4095	5748	10177	1407	2952	5027
LAIR1	41	102	28	177	23	34	16	36	124	22	18
LAMP1	561	734	279	2346	1802	3688	4481	4756	3550	2418	2785
LAMP2	168	236	97	1751	1420	3269	4620	3960	3281	2564	2571
LAMTOR1	56	85	20	293	226	360	503	544	348	325	279
LAT	231	393	102	1132	784	1210	466	921	1635	788	533
LCK	565	762	249	2555	2581	1589	2252	4156	1642	1785	1461
LDHA	659	772	402	2099	3251	4164	7786	9316	7652	9154	9270
LDHC	7	5	8	3	7	14	11	18	9	9	15
LEF1	609	1019	197	595	131	142	61	52	32	148	50
LEFTY1	17	39	21	30	29	19	15	23	30	14	13
LIF	33	46	30	86	86	1165	852	142	5889	997	420
LILRA1	32	54	49	31	28	47	32	39	67	17	19
LILRA5	16	30	22	32	35	19	16	33	18	9	6
LILRB2	19	22	24	15	23	14	7	16	18	12	4
LILRB3	48	94	63	85	90	90	27	49	116	23	13
LILRB4	8	20	9	13	12	18	15	10	21	20	18
LNX1	17	29	27	19	21	18	3	17	11	6	1
LPAR6	369	505	83	2684	1515	7375	2627	1766	3575	516	464
LRRC32	54	71	47	395	138	65	88	236	24	142	70
LTA	155	206	231	2829	2542	883	19216	12757	4024	14387	12843
LTB	1261	1922	540	27483	12467	2410	12801	20230	2326	3259	3278
MAF	367	477	203	3176	4943	4194	3893	7750	3151	1996	4669
MAGED1	104	125	58	444	394	623	905	1026	696	763	629
MAML2	329	384	173	259	110	271	229	112	1019	180	64
MAML3	28	47	58	40	34	56	15	45	71	39	27
MAP2K2	239	368	154	673	789	735	1063	1256	1160	625	565
MAP2K7	187	255	154	336	323	363	419	530	582	292	300
MAP3K14	279	390	262	739	628	648	1069	687	801	319	462
MAP3K7	230	277	120	990	699	1041	1154	1503	1455	1012	855
MAPK12	4	6	5	22	141	76	106	205	23	31	132
MAPK3	105	141	34	611	592	724	1618	1316	997	787	753
MAX	1456	1625	510	2798	2043	2098	2805	3302	2710	2041	1814
MCAT	27	41	20	27	35	40	43	60	43	26	35
MDFIC	10	11	12	48	21	44	23	42	103	81	1
MDH2	84	164	91	323	349	367	960	1011	351	450	337
MFN2	149	205	113	425	366	762	938	1105	1224	714	558
MID1IP1	67	94	67	447	388	714	589	881	1261	804	762
MIF	281	354	92	1048	1361	2009	5123	4497	2505	2900	2571
MINOS1	24	45	24	31	24	34	21	32	29	19	17
MKI67	38	46	30	220	367	329	930	1274	1073	705	879
MMP2	26	51	21	40	34	182	28	32	23	31	1
MMP9	33	30	50	33	35	44	33	36	187	144	41
MPC2	169	220	138	725	757	1725	2361	2139	1362	1266	1216
MR1	57	79	47	302	143	336	363	353	335	117	141
MS4A1	16	15	10	15	16	11	8	8	12	9	10
MS4A2	8	11	3	4	12	8	8	10	10	7	1
MS4A4A	41	66	48	26	27	49	18	22	30	18	4
MT2A	75	80	65	88	199	983	601	616	1113	328	362
MTCP1	29	49	17	103	57	91	92	118	131	89	76
MTHFD1	106	165	50	574	675	827	2735	2538	1640	2007	1669
MTHFD1L	62	80	36	578	509	335	1467	1169	213	1292	953
MTHFD2	226	249	141	1298	1166	2037	2001	2828	3890	2538	1954
MTHFR	42	62	40	321	185	130	280	264	237	137	131
MTHFS	81	119	50	293	248	502	456	573	657	478	380
MTOR	106	128	63	477	297	291	382	516	631	453	342
MX1	207	352	222	225	102	75	95	138	75	132	53
MYC	226	210	136	1390	927	688	2592	2822	1872	2560	1712
MYL9	21	23	27	23	32	42	132	48	13	47	81
NAA20	85	111	51	439	427	706	1015	1093	805	932	653
NBL1	18	47	23	28	29	102	26	45	227	21	41
NCAM1	26	56	32	30	39	42	25	30	57	31	14
NCAPD2	110	222	83	761	783	780	2700	3110	1352	1602	1698
NCAPG2	71	102	55	323	386	506	1225	1442	1360	912	964
NCAPH	165	272	142	456	783	1324	2134	2603	2435	1688	2138
NCR1	11	11	9	22	27	15	17	65	30	17	18
NCR2	17	17	18	14	9	15	8	15	18	12	17
NCR3	26	73	26	339	220	129	439	847	151	133	194

NDUFA1	611	777	280	3547	3388	6696	8309	7770	6586	5759	4684
NDUFA2	82	92	31	278	265	212	556	565	275	307	296
NDUFA4	365	457	245	2524	2115	5800	8610	8510	6067	5728	4355
NDUFA6	336	373	130	601	576	1668	2161	2052	1669	1479	1274
NDUFAB1	253	243	95	1340	1359	2243	3939	4332	3036	3808	2686
NDUFB9	210	269	125	1025	836	1513	2302	2541	1468	1627	1066
NEDD8	197	284	73	1199	1147	3568	3841	4201	3010	2857	2402
NEK2	57	204	99	189	335	399	1058	1230	699	689	775
NFAT5	129	127	76	588	318	365	637	689	681	488	378
NFATC1	263	253	120	216	116	195	107	127	228	87	34
NFATC2IP	113	141	24	462	331	380	467	680	839	411	348
NFIL3	64	91	64	145	338	1452	396	909	3433	421	1148
NFKB2	1738	2122	938	1443	1263	1580	2731	2064	5627	2587	2046
NFKBIA	4066	4581	4518	2582	4706	3547	4436	4905	16015	7971	6379
NKG7	46	84	44	75	526	3114	639	1286	2783	410	1230
NME1	50	77	38	484	686	853	1847	2526	1095	2990	1933
NME2	1183	1263	364	7453	7884	11236	28157	21532	12782	21629	14209
NMT1	239	298	132	1041	785	1328	2062	2152	2325	1771	1451
NOD2	20	46	21	24	60	67	103	125	477	29	59
NOTCH1	133	210	70	235	269	576	474	503	587	509	407
NOTCH2	126	137	34	746	743	1352	1660	1679	2518	916	1035
NPRL3	91	150	56	401	309	309	760	704	426	616	465
NR3C1	417	482	218	384	352	1524	1062	973	2171	474	503
NRF1	62	97	47	66	77	172	161	170	165	77	51
NRL	26	40	20	39	34	29	14	29	24	9	7
NRP1	26	50	40	49	50	31	17	24	101	31	23
NSD2	238	310	145	1443	1312	1411	2786	2767	3103	1984	2223
NT5E	37	86	46	365	343	825	88	615	758	431	819
OAS1	56	165	38	729	785	183	378	970	300	281	277
OAS2	104	260	96	1071	856	651	1596	1577	953	861	766
OAS3	26	61	23	148	146	187	353	376	539	293	297
OASL	58	105	415	44	57	58	76	47	36	31	27
OAT	322	364	334	262	221	676	713	727	711	865	514
OMA1	41	69	13	292	236	270	609	502	433	269	320
OPA1	228	258	178	980	899	1387	1885	2363	1668	1878	1566
OXSM	36	62	48	117	94	150	201	236	151	98	94
PARP1	137	182	55	1022	1164	1373	3269	3324	1703	2115	2162
PCCA	48	58	26	178	124	80	103	115	163	46	53
PCK2	59	83	39	417	296	309	541	570	410	517	338
PDCD1	8	14	8	16	51	13	21	22	7	10	12
PDCD1LG2	10	7	4	61	40	124	57	54	292	21	42
PDGFRA	9	23	20	23	23	18	11	28	77	16	15
PDHA1	119	109	61	477	356	410	789	873	781	828	662
PDK1	199	310	120	775	488	194	353	591	394	225	265
PDK3	102	97	46	337	373	641	997	873	820	605	735
PDPN	4	2	2	7	11	8	9	6	4	9	4
PECAM1	11	16	9	59	14	17	12	11	37	30	23
PFKFB4	8	17	6	31	35	46	76	57	114	37	59
PFKL	450	611	279	1824	2042	1373	3155	2837	1634	1495	1476
PFKP	209	250	144	1104	825	1324	2266	2464	1635	1997	1722
PGAM1	775	850	305	3357	3850	7903	10755	12437	9444	12826	10249
PGK1	1077	1184	402	3728	4567	11879	11258	12386	21024	12083	11103
PHGDH	13	12	10	114	321	135	507	254	196	104	184
PIDD1	43	44	31	163	74	50	135	118	95	34	40
PIK3C3	223	267	139	885	566	538	603	841	901	540	445
PIK3R1	779	1248	791	427	354	691	572	608	935	289	367
PIK3R2	45	45	16	116	115	96	261	254	97	146	115
PIK3R3	20	58	35	91	90	172	266	318	109	104	134
PKM	460	559	158	4112	4589	6848	15206	16357	14612	13910	12823
PLA2G4B	9	6	1	13	7	11	8	10	10	10	17
PLCB2	228	502	155	903	946	458	681	988	889	391	381
PLCB3	15	8	11	22	27	26	21	35	45	29	19
PLCG1	849	1257	582	2746	1198	962	1456	2028	1355	1027	991
PML	202	346	186	940	663	590	985	1019	886	462	479
PNOC	16	34	24	9	14	20	21	32	22	24	15
PPARA	64	83	38	240	269	316	376	397	487	208	210
PPARD	44	50	17	74	58	84	67	70	144	64	51
PPARGC1A	25	23	30	16	24	22	11	23	21	13	7
PPAT	106	193	75	334	385	651	1152	1069	963	987	766
PPIA	3736	4777	1662	13254	15313	22199	65258	57846	26841	36031	31022
PPP2R5D	97	127	31	462	410	561	1069	1266	821	606	645
PPP3CA	92	99	39	219	206	484	356	474	886	268	296
PPT2	19	39	30	68	34	59	83	83	91	86	57
PRDM1	357	495	249	1962	1854	2087	2099	2822	2135	2023	2168

PRF1	70	186	37	1641	783	752	401	2750	5760	1681	1044
PRICKLE3	43	69	32	111	105	182	158	218	303	89	74
PRKAB2	79	112	44	313	201	431	409	339	706	275	249
PRKCB	275	218	68	1021	730	654	3167	1565	522	1170	1163
PRKCD	105	145	80	333	293	337	851	805	634	459	470
PROCR	14	23	16	13	19	22	9	21	30	20	20
PSAT1	35	59	41	254	230	181	158	255	160	238	140
PSMA2	481	534	160	2216	1915	3660	6941	6921	4693	6517	4661
PSMA3	287	331	109	1104	1020	1895	3247	3521	2871	3346	2683
PSMA6	202	239	87	780	857	1305	2488	2566	1725	2345	1921
PSMB10	275	382	116	1250	1062	1062	2661	2655	1407	1074	1005
PSPH	14	32	26	128	89	55	102	90	110	82	46
PTCD1	21	47	24	124	90	112	160	202	153	111	95
PTGDR2	35	60	31	113	40	63	14	79	24	1	1
PTGER2	87	192	55	1074	154	675	25	133	1668	58	31
PTGER4	556	753	760	365	271	422	789	678	1516	722	470
PTGS1	23	40	40	31	38	69	30	33	71	117	46
PTGS2	25	51	25	28	179	1025	536	397	4583	367	1195
PTK2B	559	854	301	1401	1130	820	1071	1582	1893	863	797
PTK7	18	39	23	23	32	22	11	17	11	18	8
PTPN6	278	401	156	1217	944	677	2112	2258	653	2163	1137
PTPRC	5112	6574	3852	16349	12825	8790	11538	15415	16031	8463	8753
PYCR1	14	31	12	89	84	58	142	151	102	178	101
PYCR2	181	248	70	1542	1030	1729	2996	2921	2350	2107	1731
PYCR3	11	33	14	47	39	51	74	89	82	83	48
RAC2	280	467	61	1511	1464	2332	4938	5702	2593	2790	2610
RAE1	191	196	130	507	587	826	980	2217	936	986	1142
RAG2	16	59	31	35	37	30	15	23	33	17	19
RAI1	48	56	33	114	134	153	146	210	242	160	143
RARB	26	53	32	20	22	28	12	19	18	3	11
RARG	81	53	28	173	121	260	101	198	734	156	95
RBX1	463	481	120	1677	1441	2561	4522	4351	3404	3020	2619
RDH10	54	75	61	2887	2026	3136	3170	5978	7252	1737	2897
RDH14	112	120	37	240	196	282	589	576	301	336	306
RDH5	24	45	28	68	53	42	34	35	45	14	24
RELA	376	407	173	411	473	745	738	1005	852	483	401
RIMKLA	23	41	20	11	19	28	13	18	38	11	16
RNASEL	65	100	32	342	186	316	275	300	417	179	147
RORA	1201	1147	676	1429	1023	726	1306	1902	759	955	744
RORC	79	61	26	32	24	29	19	33	17	38	19
RPL23	9647	8641	3949	21727	21323	38761	45156	48834	36125	39833	29176
RPL3	1666	1567	1190	2037	1566	3988	6103	4214	3546	2767	1512
RPTOR	42	59	27	192	344	538	712	848	524	373	360
RUNX3	1358	1699	1041	875	988	2104	2519	2530	4821	2392	2153
RUNX3_2	886	1215	722	475	512	833	936	1026	1873	741	597
S100A12	10	33	27	15	21	18	8	16	8	8	2
SCD	63	82	67	985	1425	354	4570	1831	1921	2402	3180
SDHB	289	315	166	661	608	1171	2001	2137	1413	1467	1125
SEC22B	166	207	100	571	473	835	827	926	991	579	463
SELL	806	1088	149	6784	2378	445	638	4296	52	900	508
SELPLG	35	67	29	442	228	243	172	287	536	70	114
SERINC1	1734	2088	1068	2482	1959	4634	4140	4329	4252	1998	2084
SERINC3	821	806	256	1763	1376	2994	2648	3079	3324	1817	1697
SERINC4	11	32	19	22	20	24	11	23	20	15	14
SERPINB9	734	656	313	422	374	898	111	373	2076	600	352
SGK3	99	99	45	76	52	128	106	61	87	49	35
SGO2	36	72	25	185	258	229	561	803	636	617	521
SH2D1A	168	196	77	760	876	1713	2643	2252	1338	984	1181
SH3BP2	55	99	44	455	270	290	324	416	733	337	247
SHMT1	33	43	28	109	127	177	380	327	264	211	207
SHMT2	270	286	69	890	722	759	1377	1653	1173	1384	1152
SIGLEC10	28	42	41	29	39	34	28	44	57	22	28
SIGLEC5	32	34	15	37	29	27	14	14	19	5	7
SIK1	763	823	665	186	142	33	38	95	37	57	71
SIRPA	24	44	28	30	30	24	9	20	17	23	13
SIRPG	102	197	48	887	848	266	1258	1379	431	354	537
SKP1	1287	1361	811	3182	3327	7791	8419	8073	8122	6837	5310
SLAMF6	119	182	30	797	697	282	1007	872	525	268	418
SLAMF7	7	14	8	70	21	146	15	266	102	218	69
SLC25A20	82	126	41	929	699	799	1377	1960	1056	855	729
SLC25A6	1270	1387	478	3996	3881	6411	10761	9188	4162	7217	5725
SLC27A3	20	43	26	73	76	77	39	102	182	50	66
SLC2A1	28	39	30	76	76	106	102	163	213	96	94
SLC2A11	36	61	28	218	115	111	144	114	134	96	57

SLC2A2	27	69	49	34	36	41	22	36	38	11	13
SLC3A2	578	556	296	999	872	1539	1014	1649	1274	1603	1250
SLC7A5	454	405	225	936	1059	1828	1547	3288	1779	4196	2415
SMAD2	240	264	76	867	898	1839	2292	2342	2479	1376	1341
SMAD3	324	365	135	541	411	616	473	405	1100	42	265
SMAD5	31	85	49	125	175	491	511	341	630	214	241
SMARCA4	213	290	114	1035	835	766	1402	1504	1912	1246	1089
SMC2	79	132	62	603	624	1004	2464	2640	2605	2255	1929
SMURF1	168	181	94	160	137	282	403	313	377	146	161
SOCS2	59	141	70	4958	1564	4364	3158	10420	10242	4882	3893
SOCS4	171	221	66	586	506	644	1122	1371	965	735	683
SOCS5	130	177	105	296	245	338	481	454	516	259	255
SOS2	90	147	110	169	175	659	260	426	773	323	316
SP100	437	505	258	1302	968	876	1330	1545	1173	728	598
SPIB	15	24	15	16	16	22	14	18	37	11	11
SRC	20	28	17	25	36	87	29	60	180	129	64
SRR	16	32	22	76	65	105	165	135	154	87	82
STAM	988	1119	524	1143	439	1227	505	1178	1985	1144	647
STAT1	565	879	214	20793	10820	9420	30423	27081	10742	19731	16327
STAT2	76	143	47	710	345	179	236	325	421	214	173
STAT3	774	687	303	1341	1418	2377	1775	2548	3239	1896	1952
STAT4	309	348	242	656	271	984	390	475	2237	1016	464
STAT5A	499	461	206	1149	889	1276	2112	2657	2508	1757	1269
STAT5B	625	854	248	1972	1335	1288	1966	2445	2059	1479	1310
STAT6	376	467	149	1362	805	415	1233	1193	670	745	685
STK11	111	153	46	337	349	296	481	543	543	305	306
TAOK2	76	133	39	331	221	214	267	349	327	149	108
TBX21	68	94	81	110	300	435	528	599	1009	470	568
TCF7	375	327	166	237	49	16	18	18	54	9	3
TCL1A	22	37	30	36	35	23	22	15	28	9	1
TERT	12	11	14	18	24	17	24	52	16	23	24
TET2	259	259	168	1046	991	1084	1546	1568	1391	895	894
TFAM	156	191	102	348	305	432	841	996	605	706	576
TFB2M	129	164	129	302	341	359	468	624	507	604	471
TFDP1	68	111	53	483	562	848	2425	2848	1178	1974	1570
TFRC	834	1124	775	3670	3009	4198	9215	7521	8375	11759	9591
TGFB1	724	928	644	962	761	1147	1258	1596	1048	743	626
TGFBR1	133	179	90	2471	1363	2878	3030	4879	8154	2265	2676
TGFBR2	255	206	130	357	319	509	517	371	483	268	358
TGIF2	513	597	229	744	713	1010	1460	1781	842	958	907
TICAM1	170	206	91	401	446	546	1008	1003	666	509	466
TIGIT	440	644	81	2340	1476	3571	4799	6080	5918	3259	2611
TIMM17A	256	289	139	691	634	943	1249	1598	1236	1388	1029
TIMM23	174	218	105	570	527	1068	1672	1709	1208	1670	1257
TIMP1	67	94	38	335	461	1691	81	191	1616	109	85
TKT	223	292	130	1204	945	1334	3211	2594	1775	2454	1596
TLR2	41	50	48	30	28	25	34	34	19	20	19
TLR4	34	53	28	27	26	19	31	27	25	20	20
TLR9	21	35	20	26	19	13	12	25	16	8	4
TNF	505	381	806	2142	1292	1065	1236	2902	4707	2662	1899
TNFRSF10B	96	132	72	570	239	279	571	566	463	263	256
TNFRSF11A	10	38	5	636	790	1522	2039	1769	1667	1152	1047
TNFRSF17	23	47	31	31	15	22	14	27	11	14	9
TNFRSF18	164	236	81	969	1059	2815	1227	2567	5608	1686	1243
TNFRSF4	66	97	19	290	290	656	470	761	1262	638	484
TNFRSF6B	62	105	63	118	85	82	93	89	187	73	65
TNFRSF9	227	290	94	879	1250	1731	1027	4150	2635	1872	2707
TNFSF13B	32	59	30	627	178	216	91	198	187	177	123
TNFSF14_iso1	40	112	47	242	75	369	146	171	1641	896	190
TNFSF14_iso2	12	19	8	28	26	67	45	49	192	155	57
TNFSF9	48	53	46	53	80	115	114	116	507	67	112
TOLLIP	174	211	95	484	389	821	877	862	825	501	509
TOMM6	130	159	43	490	473	952	1416	1385	968	1085	978
TOX	146	307	64	153	569	424	2955	1956	339	813	1211
TP53	177	259	76	1103	1083	1291	4039	3513	2026	2465	2384
TPR	214	414	105	763	687	664	1278	1214	1567	831	843
TPSAB1/B2	34	83	53	54	42	43	24	62	32	17	9
TRAC	3197	3812	808	18966	13049	20832	26282	44942	20486	19925	20082
TRAF3	578	619	319	1140	1044	1484	2115	2128	1702	1183	1111
TRAF5	105	164	47	838	512	279	440	665	591	446	486
TRAF6	166	238	97	395	292	460	619	441	720	330	327
TRAT1	425	572	160	1526	638	1602	249	996	2553	498	604
TRAT1_2	514	734	205	1624	641	1604	274	982	2534	411	496
TRAV10	78	88	47	400	69	112	163	15	36	293	39

TRAV11	14	20	11	23	22	33	23	14	22	12	7
TRAV1-1	64	75	43	210	48	112	12	22	92	163	30
TRAV1-2	80	94	50	261	93	77	12	32	47	289	89
TRAV12-1	145	145	44	804	175	614	19964	21	112	636	118
TRAV12-2	212	222	75	994	260	411	34	37	231	1507	435
TRAV12-3	191	197	49	787	73	611	12	12	712	791	94
TRAV13-1	394	442	123	1879	3195	795	12	503	155	2288	2184
TRAV13-2	144	191	42	615	434	365	2105	564	307	925	2046
TRAV14	173	257	83	864	811	329	19	884	448	586	1240
TRAV16	123	162	90	846	189	141	17	142	85	681	250
TRAV17	280	377	110	1720	1691	774	16	6032	388	1681	6364
TRAV18	29	54	35	107	47	74	10	28	29	55	45
TRAV19	225	239	85	919	190	259	13	96	262	930	551
TRAV2	522	553	203	1140	1363	1084	25	31622	1322	1741	4866
TRAV20	79	92	38	324	94	200	13	17	89	243	122
TRAV21	68	89	12	439	97	112	8	14	69	477	85
TRAV22	92	96	38	318	233	343	13	34	91	189	86
TRAV23	131	145	37	745	464	804	9	159	499	1039	462
TRAV24	56	75	18	175	25	154	5	17	34	287	20
TRAV25	118	155	46	593	56	110	12	16	41	633	51
TRAV26-1	252	348	95	995	474	328	7	235	43	864	406
TRAV26-2	31	58	11	360	254	370	29	119	55	641	307
TRAV27	65	68	21	319	47	65	9	19	36	316	37
TRAV29	86	104	35	444	887	804	25	3276	384	524	2413
TRAV3	79	101	27	725	272	1564	12	335	5387	945	348
TRAV30	28	46	19	98	25	72	13	13	15	70	28
TRAV34	21	27	19	140	64	69	11	7	27	177	72
TRAV35	103	114	27	307	89	2810	6	5	79	310	31
TRAV36	54	65	24	292	82	365	9	10	108	327	41
TRAV38-1	102	176	40	836	412	698	26	26	101	949	377
TRAV38-2	40	71	18	288	60	277	9	21	20	448	43
TRAV39	86	92	23	346	262	216	63	70	1729	395	431
TRAV4	166	199	78	639	398	355	23	14067	1399	545	1682
TRAV40	5	11	2	54	7	16	9	11	21	127	25
TRAV41	100	152	44	471	244	1619	9	16	735	387	90
TRAV5	33	59	27	205	103	135	11	19	51	161	64
TRAV6	127	157	46	676	279	356	67	60	167	695	364
TRAV7	26	50	21	81	39	30	31	17	18	31	12
TRAV8-1	119	152	64	476	136	208	14	19	70	276	120
TRAV8-2	753	902	281	2547	2576	1846	327	5691	457	2134	3236
TRAV8-3	179	306	99	690	297	350	89	121	126	246	146
TRAV8-6	188	227	74	1012	321	619	308	55	10140	1303	286
TRAV9-1	20	37	25	25	24	27	13	21	23	18	9
TRAV9-2	175	156	56	984	866	5094	11	643	331	1141	1382
TRBC1/2	5592	8028	1686	30554	21592	25581	50881	36273	23746	11068	11541
TRBV10-1	6	11	1	13	15	10	292	6	21	1	8
TRBV10-2	32	78	27	104	68	214	16	25	60	46	19
TRBV10-3	154	283	98	935	153	823	77465	40	307	263	69
TRBV11-1	36	69	27	251	222	30	11	33	28	106	71
TRBV11-2	146	252	90	1083	831	3049	26	105	1332	359	193
TRBV11-3	12	47	23	68	105	108	14	24	125	44	67
TRBV12-3	106	146	34	1370	258	555	15	51	162	254	145
TRBV12-5	37	31	14	92	31	25	7	27	18	34	12
TRBV13	83	145	60	288	112	44	558	27	84	102	88
TRBV14	134	77	62	291	1825	81	21	1697	49	288	1173
TRBV15	92	104	48	576	176	338	7	66	315	289	138
TRBV16	14	34	15	36	25	38	5	17	26	17	18
TRBV18	146	236	53	950	1735	554	6	5305	268	361	1176
TRBV19	169	283	67	1442	1324	1530	328	564	5517	502	431
TRBV2	143	203	62	1203	1979	600	9	48	450	445	973
TRBV20-1	463	458	174	2701	992	6814	23	137	981	1320	659
TRBV24-1	50	141	56	239	180	223	16	30	83	115	79
TRBV25-1	58	113	42	198	58	421	17	33	544	95	42
TRBV27	75	150	41	873	434	853	16	506	153	272	309
TRBV28	273	531	96	2112	4813	1840	9	17808	271	1452	6258
TRBV29-1	278	421	112	1275	942	292	10	36	47	375	127
TRBV30	80	65	13	507	518	149	113	1573	56	176	272
TRBV3-1	101	155	45	938	87	151	18	29	61	636	44
TRBV4-1	72	133	52	636	69	103	20	17	55	418	53
TRBV4-2	102	128	32	1203	447	345	23	32	69	800	435
TRBV4-3	74	139	48	1207	147	684	9	10	1575	546	63
TRBV5-1	108	219	71	995	278	588	27	39	2698	326	136
TRBV5-4	22	42	20	150	108	61	20	39	43	118	55
TRBV5-5	38	62	29	176	76	56	15	31	20	84	65

TRBV5-6	53	50	19	464	164	92	10	118	39	179	449
TRBV5-8	11	20	5	39	53	29	10	11	38	19	40
TRBV6-1	68	100	26	1011	240	234	9	26	112	713	65
TRBV6-2	143	217	53	962	359	427	30	53	140	705	174
TRBV6-4	38	64	29	84	43	36	13	26	25	52	11
TRBV6-5	290	434	82	2508	1145	935	88	14871	156	1392	1161
TRBV6-6	101	138	23	751	969	187	7	15743	34	411	1383
TRBV6-8	18	34	17	20	28	17	14	18	13	14	7
TRBV6-9	99	176	49	1054	429	475	75	2856	192	711	408
TRBV7-2	244	281	72	2165	286	1609	287	25	367	1171	154
TRBV7-3	104	103	51	749	503	123	43	46	36	594	282
TRBV7-4	68	70	35	93	64	24	56671	202	24	27	14
TRBV7-6	61	75	32	300	260	452	2476	60	55	132	193
TRBV7-7	21	30	29	77	55	45	13	51	14	30	30
TRBV7-8	252	246	101	1662	385	2607	2912	69	277	748	245
TRBV7-9	203	223	46	1735	580	304	7	69	38	775	410
TRBV9	246	166	70	1328	531	6568	17	895	344	1188	1547
TRDC	34	43	13	265	330	83	5	11	15	454	113
TRDV1	69	69	27	294	39	95	9	15	32	184	18
TRDV2	4	3	2	14	8	2	9	5	8	10	11
TRDV3	22	7	4	50	28	10	7	4	8	27	3
TREM1	15	33	30	12	16	30	15	13	16	4	4
TRGC1	30	52	28	37	67	87	10	36	68	18	25
TRGC2	27	25	13	28	41	169	15	17	288	48	45
TRGV2	24	36	28	36	25	30	12	25	140	16	8
TRGV3/5	63	189	74	211	329	724	28	289	457	213	344
TRGV4	34	61	38	30	37	37	9	23	25	9	12
TRGV8	16	17	8	17	14	21	11	21	23	30	23
TRGV9	10	21	11	18	17	20	9	16	14	19	12
TRIM10	17	37	19	24	22	30	13	21	21	8	11
TRIM22	341	502	124	2612	882	301	1965	1295	569	762	392
TRIM25	111	150	63	737	572	426	728	887	745	789	566
TRIM26	131	225	114	277	242	292	657	565	306	242	267
TRIM31	22	48	26	21	29	31	22	36	33	12	16
TRIM33	442	444	209	1303	756	1257	1613	1788	1608	1061	926
TRIM34	48	67	28	314	250	208	524	517	313	304	279
TSC2	135	207	75	568	359	397	517	623	849	469	435
TYK2	229	332	134	898	471	361	558	673	1044	522	408
TYROBP	25	47	39	31	29	21	23	34	21	22	20
UBA5	87	137	78	569	497	953	830	1054	1301	1020	719
UBE2F	138	181	56	706	343	595	352	806	1046	787	461
UBE2I	286	383	116	890	1023	1447	2119	2449	1912	2023	2053
UBE2V1	735	1239	491	2881	2691	3418	5282	5664	4265	4546	3572
UQCR10	76	127	63	258	254	449	740	812	430	449	365
UQCRQ	130	166	41	1096	1096	2727	4502	4150	3106	4374	2930
USP15	1247	1798	829	3099	1838	1098	1218	1672	2001	1034	775
USP18	17	33	11	23	20	18	66	35	40	21	19
VAV1	354	377	95	767	634	589	850	1020	820	620	621
VAV3	119	221	134	83	75	56	22	115	13	81	67
VSIR	195	248	110	224	150	89	32	127	147	111	55
WAS	224	332	122	1620	1163	894	1755	1839	1392	1051	1024
WDR45	91	121	53	503	309	435	417	562	646	409	330
XAF1	79	207	54	454	217	72	76	109	304	31	26
XCL1/2	18	37	21	24	41	54	20	66	1702	498	41
ZAP70	854	1421	533	4092	2942	1455	2843	3647	2422	1490	1806
ZBTB16	63	84	61	53	89	31	13	117	20	25	82
ABCF1	702	692	361	898	770	1044	1632	1852	1593	1197	987
G6PD	98	124	70	375	325	439	601	906	505	503	466
NRDE2	133	183	88	385	336	326	568	604	637	342	392
OAZ1	2022	2211	438	4646	5064	9205	15195	15095	8732	11332	9466
POLR2A	1299	1731	1260	1139	900	1194	1741	1890	1922	1279	1109
SDHA	602	727	237	1883	1293	1294	2546	2820	1515	1340	1282
STK11IP	53	90	33	179	106	126	145	188	204	113	134
TBC1D10B	55	92	34	152	130	215	312	362	340	209	210
TBP	143	201	58	500	407	554	609	752	716	520	484
UBB	2925	4096	1763	6213	8248	14796	21368	24170	16738	14678	13045
NEG_A	6	4	5	13	7	5	7	8	12	9	5
NEG_B	14	14	2	9	19	13	9	9	16	10	13
NEG_C	6	13	13	13	19	11	8	12	16	9	3
NEG_D	8	5	3	19	9	8	13	11	11	33	24
NEG_E	14	5	7	16	15	13	8	19	19	22	21
NEG_F	13	13	13	22	24	14	14	9	17	19	9
NEG_G	3	3	2	6	11	2	13	3	14	2	5
NEG_H	4	3	5	11	10	13	8	10	12	7	9

POS_A	34086	35204	26612	33045	34900	19906	15846	15681	18371	5561	4639
POS_B	9084	9208	7311	10269	11241	5856	4875	4724	5931	1850	1513
POS_C	2699	2761	2264	3167	3381	1887	1618	1332	1788	573	447
POS_D	684	698	596	759	831	486	340	390	457	150	138
POS_E	114	131	83	128	124	57	60	56	81	39	33
POS_F	47	46	54	50	53	41	24	21	32	17	5

Normalised counts

Gene	ex vivo Treg	ex vivo Treg	ex vivo Treg	expTreg x2	expTreg x2	expTreg x2	expTreg x6	expTreg x6	expTreg x5	expTreg x2restim	expTreg x2restim
ACACA	33	33	33	83.33994485	109.0449957	46.6091246	73.35399995	48.52648076	86.24465579	93.12484839	95.38174
ACAD10	132.0378292	196.215194	33	290.3456143	203.1230313	125.1087029	132.6014615	124.3785526	185.8921973	136.4760709	131.5610207
ACADVL	1594.23453	1542.719461	1497.903475	4507.526049	4401.355367	4213.628405	5626.816058	5274.781345	4945.664822	4813.591301	6438.26745
ACOT2	180.9407289	208.8161698	339.231081	165.7837613	193.501414	253.4882215	290.0304306	198.346101	181.8130582	188.658098	165.2735322
ACSF2	33	113.4087819	154.1959459	116.4966971	107.9759272	84.22350586	130.9086768	85.27468949	83.33098499	100.3500521	92.09271448
ACSL5	349.6557328	396.0306668	303.9862934	920.3239071	808.2158508	722.0325794	1531.405814	658.169841	602.5471222	1128.737386	611.7587462
ACTN1	193.1664538	169.2131031	33	643.4202194	252.3001862	451.3725751	985.7649071	514.9460531	685.8781072	1198.581023	599.4249005
ACVR1B	112.4766693	82.80641216	211.4687258	36.74126601	51.31529211	215.0561363	36.67699998	28.73898375	89.1583266	62.61843253	34.53476793
ACVR1C	95.36065439	151.2117092	163.0071428	97.67799988	151.8077392	141.4627817	371.2840921	200.7017554	191.7195389	106.7724555	190.76348
ACVR2A	33	118.8092001	198.2519305	55.55996323	76.97293817	88.31202556	23.13472306	39.10386313	58.85615024	37.7316196	37.82379345
ADAR	1716.491779	1467.113607	1321.679536	2588.915061	2292.083048	2946.187297	3136.165629	2841.390344	2764.490859	2923.799119	2707.690257
ADD1	770.2206701	750.6581276	568.3222007	1574.497668	1694.473708	1808.761116	1961.937368	1754.962532	2239.44738	1966.058222	1891.189672
ADORA2A	112.4766693	212.4164486	246.7135135	294.8262565	268.336215	104.6661044	138.2440768	221.902645	76.92090922	118.0116613	125.805226
AFDN	166.2698589	192.6149152	418.5318532	645.2124763	511.0147839	567.4865346	484.1363997	513.0615296	1646.806738	661.5075437	542.6892103
AHR	2904.832242	2937.827492	3202.870077	1096.86121	1565.116409	2732.766569	3309.958182	1801.604489	1924.188199	2300.023195	2009.594591
AKT1	251.8499334	304.2235577	405.3150579	353.0746051	533.4652242	409.6696741	488.0862305	460.7660018	458.6117845	343.5985785	356.8592686
AKT2	916.9293692	907.2702549	1149.861197	902.4013383	1036.996528	897.0212226	982.3793378	879.1302242	920.1372399	953.7268955	949.7061181
ALDH1L1	33	33	33	33	33	33	33	33	33	33	33
ALDH1L2	33	33	33	33	33	33	33	33	33	33	33
ALDH3A2	425.4552273	374.4289941	458.1822393	967.8187144	611.507231	760.4646646	595.8601842	769.8278598	716.7630178	1007.514523	628.2038738
ALDH8A1	114.9218143	102.6079455	33	103.0547705	97.28524129	48.24453248	22.00619999	27.32559111	64.10075769	44.15402294	42.75733172
ALDOA	2117.495557	2021.55654	1784.267374	3217.997225	4447.325316	5651.151932	5661.236012	4815.428736	5139.715298	6174.338008	5614.366558
ALDOC	374.1071826	378.0292729	568.3222007	330.6713941	237.333226	221.5977678	164.7643691	79.62111891	742.4033208	94.73044922	73.18081776
ANGPT2	33	118.8092001	33	33	33	33	33	33	33	33	33
APC	176.0504389	199.8154728	215.8743243	153.2379631	125.0810245	147.1867093	125.2660615	116.8404585	135.7770595	94.73044922	98.67076552
ARAF	188.2761638	201.6156122	215.8743243	138.8999081	191.3632768	89.1297295	82.38218456	93.75504535	119.460503	95.53324964	64.95825397
AREG	95.36065439	33	149.7903475	33	33	134.9211502	33	56.53570574	43.70506206	33	36.17928069
ATG14	298.3076881	266.4206304	330.4198841	437.3106784	256.5764606	362.2428456	238.1183691	178.0874731	293.698017	159.757283	184.185429
ATG7	474.358127	489.6379154	638.811776	793.0736687	562.3300761	264.1183727	252.7891691	228.9696082	590.3097049	395.7806056	348.6367048
ATP5MF	474.358127	423.0327578	255.5247104	1214.254035	1678.437679	2168.55085	2262.124506	1817.622939	1851.929163	2960.727938	2493.081342
ATP5MG	650.4085659	577.8447457	638.811776	716.006623	823.182811	995.1456955	1011.720938	765.5876819	763.9644848	754.6323921	670.9612055
ATP5PD	467.022692	397.8308062	387.692664	734.8253202	781.4891361	915.0107093	1093.538861	849.9201096	755.8062065	850.9684421	745.786536
ATP6V1F	630.847406	604.8468366	599.1613899	971.4032281	1250.810245	1672.204558	1362.691615	1308.801588	1120.597791	1230.693039	1045.910114
AURKA	92.91550941	108.0083637	149.7903475	110.223798	172.1200423	182.3479787	224.0118306	194.105923	262.2303723	295.4305535	296.8345529
B3GAT1	33	33	33	33	33	33	33	33	33	33	33
BATF	647.9634209	648.0501821	533.077413	1025.170934	1339.542938	1431.7996	917.4892609	1267.34207	629.3528936	1591.150427	1748.117062
BATF3	33	79.20613337	33	58.24834855	494.9787552	473.4505815	1095.231645	584.6734235	2150.871787	1615.234439	2685.489335
BCL2	804.4526999	759.6588246	678.4621621	1356.738457	976.0596187	709.7670203	362.2559075	510.7058752	837.388989	211.1365097	356.8592686
BCL2L1	117.3669593	180.0139395	33	776.9433568	658.5462488	753.1053291	903.946984	1001.624253	1734.216862	1225.073437	943.9503234
BCL6	550.1576215	401.431085	841.4693049	211.4863117	245.8857747	98.12447285	19.74915383	38.63273225	146.8490085	170.1936884	40.29056259
BID	124.7023942	126.0097576	185.0351351	186.3947154	94.07803554	93.2182492	102.1313384	112.6002806	64.10075769	108.3780563	78.11435603
BLK	33	33	33	33	33	64.14411514	33	278.1809383	33	33	33
BTBD6	183.3858738	210.6163092	189.4407336	171.1605319	214.8827857	197.0666496	200.8771076	193.1636613	237.1728034	255.2905326	235.9875809
BUB1	102.6960893	153.0118486	176.2239382	389.8158711	520.6364012	388.4093717	860.4988456	783.9617862	604.8780589	813.2368225	804.166739
C3	33	33	33	33	33	33	33	33	76.33817506	43.35122252	33
CALM1	757.9949452	523.8405639	541.88861	375.477816	576.2279677	920.7346369	563.133015	579.4909838	847.2954698	626.1843253	626.559361
CARD10	33	33	33	33	33	33	33	33	33	33	33
CASP3	577.0542163	502.2388911	568.3222007	2165.046309	1900.803945	3115.452013	5443.431058	4881.85819	2212.641608	5116.247058	4840.623305
CASP8	5772.987308	5863.054009	7145.880694	8736.356154	9907.058583	4471.205146	3886.633474	3714.395867	2742.346961	1567.066414	3032.481527
CBRA	171.1601489	208.8161698	171.8183397	537.6770635	486.4262065	316.4514249	517.4278304	384.9139299	447.5398355	578.0163003	548.445005
CCL1	33	90.00696974	33	33	33	937.9064196	33	33	37972.12338	49.77362586	33
CCL11	102.6960893	138.6107334	229.0911197	30.46836693	37.4174005	35.16126944	22.57046152	20.72975877	33	33	33
CCL13	33	63.00487882	33	33	33	33	33	33	33	33	33
CCL14	33	33	33	33	33	30.25504579	33	33	33	33	33
CCL15	33	86.40669095	171.8183397	34.05288069	36.34833191	33	33	16.01844996	33	33	33
CCL16	33	64.80501821	33	33	33	33	33	33	33	33	33
CCL17	33	33	33	38.53352289	39.55553767	116.9316635	468.9013382	35.80594697	423.6477349	627.7899262	299.3013221
CCL18	33	82.80641216	207.0631274	34.05288069	40.62460625	1485.76806	33	16.48958084	312.9282443	49.77362586	97.02625276
CCL19	33	82.80641216	167.4127413	33	41.69367484	33	33	33	19.81296147	33	33
CCL2	33	64.80501821	33	33	33	33	33	33	78.6691117	33	33
CCL20	799.5624099	511.2395881	964.8260616	38.53352289	67.3513209	27.80193397	33	17.4318426	19.81296147	47.36522461	33
CCL21	33	63.00487882	33	33	33	33	33	33	33	33	33
CCL22	33	72.00557579	149.7903475	49.28706416	33	33	33	33	33	46.56242419	33
CCL23	33	111.6086425	33	33	44.9008806	134.9211502	32.72716921	24.02767494	81.00004835	31.30921627	78.11435603
CCL24	33	33	33	33	33	33	33	33	33	33	33
CCL25	33	95.40738792	167.4127413	32.26062381	44.9008806	36.79667732	19.74915383	23.55654406	22.72663227	33	33
CCL26	33	70.20543639	33	33	33	33	33	33	33	33	33
CCL27	33	33	33	33	33	33	33	33	33	33	33
CCL28	171.1601489	239.4185395	229.0911197	474.9480728	398.7625824	389.2270756	460.4374151	284.0919213	290.2016121	297.0361543	337.1251155
CCL3/L1	134.4829741	174.6135213	440.5598455	135.3153943	2402.197112	6997.910322	1291.030399	4746.643627	14204.14517	15932.37708	18369.20751
CCL4/L1	33	33	33	33	1227.290736	3853.838671	335.7356152	2448.93832	14954.70677	5802.641415	9848.986911
CCL5	83.13492947	115.2089213	33	339.6326785	1143.903387	7512.2461	3783.937874	1607.498566	9873.264886	6775.63552	4707.417772
CCL7	33	33	33	33	33	33	33	33	33	33	33
CCL8	33	88.20683034	185.0351351	36.74126601	33	33	33	33	19.81296147	33	33
CCNC	337.4300079	309.6239759	215.8743243	612.055724	608.3000252	987.78636	1041.062538	901.7445065	625.2737545	1176.102611	888.0368897

CCR2	107.5863793	129.6100364	163.0071428	126.3541099	50.24622353	37.61438126	33	33	57.10794776	33	33
CCR3	119.8121042	104.4080849	158.6015444	41.22190821	45.96994918	31.89045368	33	33	22.14389811	33	33
CCR4	2046.586352	1965.752219	1264.406757	6509.476983	5658.580024	2609.293274	5067.068612	5009.063528	2857.728324	9333.357649	7100.183835
CCR5	33	70.20543639	33	69.00188982	56.66063504	34.3435655	29.34159998	38.63273225	44.28779622	33	33
CCR6	562.3833464	603.0466972	568.3222007	48.39093572	54.52249787	28.61963791	33	69.72737041	34.38131549	96.33605005	57.55794655
CCR7	1961.006278	1335.703431	978.042857	836.087838	833.8734968	270.6600043	1518.992061	723.1859026	781.4465096	1477.152767	1210.36139
CCR8	212.7276136	484.2374972	422.9374517	1002.767724	204.1920999	423.5706411	92.53889225	531.4356339	1906.12344	2019.845849	684.1173076
CD14	95.36065439	79.20613337	163.0071428	33	33	33	33	33	33	33	33
CD160	33	70.20543639	33	33	33	33	33	33	33	33	33
CD163	33	72.00557579	149.7903475	33	33	33	33	33	33	33	33
CD19	33	68.405297	33	33	33	33	33	33	33	33	33
CD1A	33	127.809897	167.4127413	33	33	33	33	33	33	33	33
CD1D	33	33	33	33	33	33	33	33	33	33	33
CD200	264.0756583	243.0188183	229.0911197	54.66383479	177.4653852	183.9833866	383.1335844	150.761882	325.1656617	232.0093205	330.5470645
CD209	33	91.80710913	33	33	33	33	33	33	33	33	33
CD22	33	90.00696974	33	33	33	33	33	33	33	33	33
CD226	359.4363127	552.6427942	277.5527027	854.0104026	1916.839974	2353.35194	1366.641445	1559.443217	862.4465579	1971.677824	2098.39828
CD244	33	33	33	33	33	33	33	33	33	33	33
CD247	1352.165176	1528.318346	1489.092278	1693.68275	1192.011473	1085.910833	428.838769	605.4031823	1101.950298	484.8914519	458.8190597
CD27	212.7276136	210.6163092	33	33	1055.639301	856.3239371	211.7853206	29.90586152	1150.501612	33	505.7642628
CD274	33	33	33	39.42965133	39.55553767	98.94217679	33	33	142.7698694	29.70361543	33
CD276	33	82.80641216	154.1959459	34.05288069	49.17715494	203.6082812	34.98421536	63.13153807	375.8635337	232.0093205	192.4079928
CD28	1635.801995	1186.291861	859.0916987	1656.045356	1634.605867	734.2981385	831.7215072	1146.261434	47.78420118	895.9252655	928.3274522
CD300C	33	33	33	33	33	33	33	33	33	33	33
CD300E	33	33	33	33	33	33	33	33	33	33	33
CD300LF	33	33	33	33	33	33	33	33	33	33	33
CD33	33	64.80501821	33	226.7204951	33	79.31728222	30.47012306	24.02767494	171.9065774	87.50524547	33
CD38	88.02521944	156.6121273	176.2239382	291.2417428	83.38734968	121.0201832	33	112.6002806	230.7627277	38.53442002	33
CD3D	3100.44384	2453.589995	1493.497876	5832.900011	6833.486399	8256.356686	10749.1823	7621.013133	5359.406077	6839.056753	5626.700404
CD3E	2247.088241	2323.979959	1352.518726	4796.975535	4688.934817	4776.208716	5675.34255	4691.050184	2896.188779	4328.699849	4202.552355
CD3G	667.5245808	653.4506003	436.154247	1503.703521	1249.741177	941.1772354	1495.293076	1429.411093	528.5398838	1074.146958	784.4325859
CD4	403.4489224	451.8349881	317.2030888	2759.179464	3277.764284	3255.279387	2942.05966	3031.72722	1716.152103	2855.561084	2937.099787
CD40	33	33	33	53.76770635	48.10808635	126.7441108	33	34.39255432	166.66197	37.7316196	30.42348603
CD40LG	1127.211838	421.2326184	378.8814671	135.3153943	50.7386706	1076.916089	315.4221998	164.8958084	378.692664	705.6615666	422.639779
CD45R0	2401.132375	3134.042686	1779.861776	2462.560951	4341.487526	3905.354019	2137.422706	3788.834546	2462.051829	3060.27519	5808.419063
CD45RA	1041.631763	626.4485094	2000.141699	111.1199265	105.83779	103.0306965	59.81172304	92.81278358	112.467693	63.42123295	37.00153707
CD45RC	33	33	33	57.35222011	44.9008806	43.33830884	32.72716921	31.56576904	51.28060615	45.75962378	27.9567169
CD52	4809.600184	5418.419578	2145.526448	11715.98321	8326.975214	7752.651059	3249.582198	4233.110967	2645.61309	1855.271764	1177.471135
CD6	735.9886403	1375.306498	1141.05	530.508036	1801.380567	1351.664613	882.5050456	1152.857266	383.4390778	296.2333539	940.6612979
CD68	139.3732641	151.2117092	207.0631274	235.6817795	88.73269261	212.6030245	161.3787999	138.0413482	55.35974527	204.7141064	108.5378421
CD69	2388.90665	2167.367831	5264.690154	798.4504394	666.0297289	296.0088264	37.80552305	121.0806365	882.2595194	336.3733748	353.5702431
CD7	868.0264695	606.646976	418.5318532	963.3380722	1143.903387	1807.125708	37.80552305	847.5644552	627.6046912	993.064116	592.0245931
CD80	151.598989	167.4129637	211.4687258	2284.231392	1220.876325	1129.249142	1276.923861	1435.535795	3501.066838	2116.9847	1457.860561
CD84	973.1677038	1404.108728	933.9868724	703.4608248	1087.242752	1015.588294	1034.291399	827.7769582	817.5760276	258.5017343	485.9535202
CD86	33	88.20683034	33	137.1076512	285.4413124	191.3427221	706.4554457	413.1817828	113.0504272	138.8844722	446.485214
CD8A	90.47036443	111.6086425	33	33	65.21318372	58.87468371	33	17.90297348	48.36693534	86.70244505	33
CD8B	33	91.80710913	189.4407336	92.30122924	57.72970363	27.80193397	33	33	33	99.54725172	33
CD9	33	33	33	202.5250273	212.7446485	870.8546965	140.501123	468.3040959	986.5689342	824.4760284	162.8067631
CD96	711.5371905	765.0592428	630.0005791	1498.32675	841.3569769	2402.414177	460.4374151	680.7841232	2160.195534	793.9696125	787.7216114
CD99	239.6242085	253.8196547	299.5806949	93.19735768	168.9128365	457.9142066	97.05298455	137.0990864	308.8491052	138.0816717	104.4265602
CDC26	662.6342908	545.4422366	286.3638996	729.4485495	883.0506517	912.5575975	832.8500302	874.4189154	739.48965	1253.171451	905.3042736
CDC42	3384.080659	3017.033626	3061.890926	2993.965116	3221.103649	5313.440205	3853.342044	3891.069947	5596.57888	5190.907497	4216.530713
CDKN1A	860.6910345	678.6525518	1132.238803	336.9442932	442.5943945	1535.648	1360.99883	722.7147717	2549.461953	1355.929905	1179.937904
CEACAM1	33	95.40738792	33	508.1048251	381.6574851	193.7958339	78.4323538	152.1752746	710.352942	122.0256634	180.0741471
CEACAM3	33	33	33	33	33	33	33	33	33	33	33
CHMP3	579.4993613	693.053667	630.0005791	709.7337239	778.2819304	663.9755996	643.822415	432.9692798	565.252136	476.0606473	472.7974181
CHMP4A	1163.889013	1020.679037	938.3924709	1882.765851	2049.404479	1839.016162	1732.282922	1588.1822	1990.619893	2263.897176	2035.906795
CIITA	33	75.60585458	33	489.2861278	300.4082726	75.22876252	719.9977226	252.0550214	380.8491052	294.6277531	337.9473719
CISH	107.5863793	106.2082243	163.0071428	826.230421	553.7775274	825.0632759	888.7119225	785.8463097	1129.338804	327.5425702	385.6382419
CKAP5	168.7150039	160.2124061	33	355.7629904	490.7024808	527.4190416	742.0039226	682.1975159	758.7198773	748.2099887	744.1420233
CLCF1	141.8184091	136.810594	229.0911197	32.26062381	62.00597797	209.3322087	33	25.44106758	281.4605997	43.35122252	67.4250231
CLDN1	33	33	33	33	33	33	33	33	33	33	33
CLDN23	33	64.80501821	163.0071428	33	33	33	33	33	33	33	33
CLDN3	33	33	33	33	33	33	33	33	33	33	33
CLDN4	33	63.00487882	33	33	36.34833191	33	33	33	33	33	33
CLDN7	33	33	33	33	33	33	33	33	33	33	33
CMIP	144.2635541	145.811291	167.4127413	105.7431558	84.45641827	96.48906497	58.68319996	56.53570574	118.8777688	61.81563212	49.33538276
CMKLR1	33	81.00627276	33	33	33	33	33	33	33	33	33
COLEC12	33	136.810594	180.6295367	33	33	31.89045368	33	18.84523525	33	33	33
COX16	146.7086991	216.0167274	330.4198841	310.06044	438.3181201	464.4558381	662.4430457	483.8514149	329.827535	516.2006682	517.1992626
COX19	327.6494279	268.2207698	198.2519305	234.7856511	168.9128365	119.3847753	136.5512922	103.177663	137.5252619	116.4060605	102.7820474
COX41	2865.709922	2181.768946	2458.323938	3622.151151	3839.025291	4742.682854	4883.119351	3537.250656	3601.879848	5081.72664	4181.995945
COX5B	1088.089518	1002.677643	894.3364864	1833.478787	2366.917849	2826.802522	3159.864613	2496.99367	2471.375576	2986.417552	2598.330159
COX6B1	1004.954589	1173.690885	982.4484555	2450.015153	2632.046858	3442.533589	3685.192105	3019.006686	2823.929743	3781.189965	3171.442855
COX6C	1371.726336	1067.482661	1123.427606	2659.709208	3091.74635	4654.370829	5800.04435	4438.995162	3409.577575	6265.857256	4925.315712
COX7A2	1056.302633	934.2723459	718.1125482	1718.774346	1933.945071	3310.065551	3736.539905	2980.373954	2533.145397	3830.16079	3229.000802
COX7B	1501.31902	1285.299528	1114.616409	1967.001928	2054.749822	3681.30314	3476.415336	2961.528719	2717.289392	4031.663695	3086.750448

COX7C	973.1677038	822.6637034	1022.098842	910.4664943	890.5341318	1103.082616	1236.29703	1028.478714	794.2666611	1066.118954	810.74479
CPA3	33	122.4094788	185.0351351	33	36.34833191	33	33	33	33	33	33
CPT1A	141.8184091	131.4101758	33	491.9745131	488.5643436	464.4558381	480.7508305	467.3618341	501.7341124	518.6090695	505.6876733
CPT1B	239.6242085	280.8217456	330.4198841	342.3210638	234.1260203	97.30676891	74.48252303	123.9074217	168.9929066	128.4480667	93.73722724
CREB1	647.9634209	662.4512973	612.3781852	912.2587512	661.7534545	777.6364473	606.0168919	590.3269941	861.2810896	632.6067287	648.7602833
CRLF2	33	84.60655155	33	76.17091734	36.34833191	301.732754	33	33	1842.022682	84.2940438	45.22410086
CS	1056.302633	864.0669095	947.2036678	1244.722402	1324.575978	1531.55948	2321.371968	1770.509851	1525.598033	2374.683634	1968.481772
CSF2	33	33	33	33	33	129.1972226	33	39.10386313	9337.149458	517.806269	214.608915
CSF2RA	33	33	33	33	33	44.97371672	33	33	382.2736095	33	33
CSF3	33	33	33	33	33	33	33	33	33	33	33
CSF3R	95.36065439	122.4094788	242.307915	33	33	33	33	33	33	33	33
CTLA4	8406.408457	6739.721894	6440.984941	15416.09754	10923.74281	5962.697133	1537.612691	9262.433123	1698.087344	18217.94987	11695.77474
CTNNA1	183.3858738	282.621885	295.1750965	521.5467516	993.1647161	2565.137261	1045.012369	1302.676886	2397.951072	1990.142234	1852.543623
CTNNB1	2335.11346	1864.944413	2004.547297	3135.553409	2774.23298	3383.658905	2927.953121	3006.286153	3936.369256	5407.66361	4055.368463
CTNND1	102.6960893	118.8092001	163.0071428	72.58640358	50.24622353	38.4320852	23.13472306	29.68124551	101.395744	33	33
CTSD	222.5081936	268.2207698	259.9303088	1040.405118	1031.651185	1689.376341	744.8252303	773.5969068	1153.813638	826.0816292	788.5438678
CTSW	33	144.0111516	171.8183397	147.8611925	376.3121421	526.6013376	99.31003071	223.7871685	2050.058778	169.390888	346.1699357
CX3CL1	33	70.20543639	33	33	33	33	33	33	33	33	33
CX3CR1	33	100.8078061	33	74.37866046	52.3843607	40.06749308	33	48.05534988	60.60435272	57.80163003	33
CXCL1	33	63.00487882	33	33	33	33	132.6014615	23.55654406	31.46764468	50.57642628	33
CXCL10	33	73.80571518	33	33	49.17715494	31.07274973	351.5349382	45.22856459	41.37412541	65.02683379	734.2749467
CXCL11	88.02521944	133.2103152	224.6855212	33	33	38.4320852	29.90586152	33	33	33	33
CXCL12	33	33	33	33	33	33	33	33	33	33	33
CXCL13	33	33	33	33	33	33	33	33	33	33	33
CXCL14	33	102.6079455	176.2239382	35.84513757	40.62460625	33	33	20.72975877	19.81296147	33	33
CXCL16	33	33	33	33	33	33	24.26324614	33	47.20146702	33	33
CXCL2	33	97.20752732	356.8534749	196.2521282	291.8557239	58.05697977	685.0135072	408.9416048	166.0792358	350.0209819	705.4959734
CXCL3	33	104.4080849	242.307915	33	60.93690938	45.79142066	95.36019994	33	44.28779622	33	27.9567169
CXCL5	33	86.40669095	33	33	40.62460625	33	20.87767691	33	33	33	33
CXCL6	33	63.00487882	33	33	33	33	63.7615538	33	33	33	33
CXCL8	146.7086991	171.0132425	2431.890347	834.2955769	1869.800956	1588.798756	4284.437859	878.6590933	1074.561792	11214.31903	6235.992381
CXCL9	33	93.60724853	171.8183397	33	41.69367484	44.15601278	33	33	99.06480733	33	33
CXCR3	288.5271082	291.6225819	180.6295367	215.9669539	455.4232175	114.4785517	133.165723	148.4062276	172.4893116	427.8926223	286.14522
CXCR4	12470.23942	11659.50286	22257.08339	6767.561973	5173.222886	5307.716277	10147.6795	6519.509133	3643.836707	4486.048731	7031.936556
CXCR5	90.47036443	91.80710913	33	33	33	33	33	33	33	33	33
CXCR6	217.6179036	255.6197941	330.4198841	430.1416508	884.1197203	818.5216443	33	120.6095056	569.9140092	553.1294874	176.7851216
CYBB	33	86.40669095	33	33	39.55553767	33	33	33	33	33	33
DAP3	1007.399734	903.6699762	815.0357142	1606.758292	1518.077392	1339.399054	1453.537722	1341.309619	1636.900258	1693.10608	1443.882202
DDIT4	760.4400902	858.6664913	1400.980309	105.7431558	175.327248	177.4417551	43.44813843	87.63034389	395.093761	245.6569276	218.7201969
DECR1	430.3455173	423.0327578	180.6295367	1219.630806	1302.125537	988.6040639	1519.556322	1478.408705	881.0940511	1572.686017	1422.503536
DGLUCY	462.1324021	617.4478124	180.6295367	1469.65064	1138.558044	354.0658062	433.3528613	555.9344397	419.5685958	358.048986	351.103474
DHFR2	33	117.0090607	158.6015444	187.2908438	135.7717104	170.9001235	134.2942461	137.0990864	92.65473156	118.8144617	130.7387643
DHRS4	207.8373237	255.6197941	537.4830115	345.9055775	357.0689076	411.305082	409.6538767	266.6600787	365.957053	345.2041794	238.45435
DIABLO	493.9192869	471.6365214	515.4550192	369.204917	377.3812107	489.8046603	515.1707843	387.7407152	406.1657101	416.6534165	351.9257303
DLL1	33	33	33	33	33	33	33	33	33	33	33
DOCK2	1802.071854	1909.947898	1881.19054	2390.870676	2466.341227	1632.954769	2710.712429	1819.036332	2857.728324	2272.727981	2186.379713
DUSP1	10487.22684	12303.95276	26244.15	2027.938658	8295.972225	159.4522684	76.73956918	80.09224979	3002.246396	386.949801	703.8514607
DVL2	212.7276136	225.0174243	154.1959459	299.3068987	339.9638102	297.6442343	379.7480151	259.1219846	288.4534096	264.9241376	300.1235784
EBI3	33	33	33	253.6043483	208.4683742	327.0815762	772.4740457	368.8954799	980.1588584	1043.640542	711.2517681
EGF	33	33	33	33	33	33	33	33	33	33	33
EGR1	557.4930565	653.4506003	1171.889189	181.9140732	474.666452	120.2024792	25.95603075	158.2999761	294.2807512	131.6592684	224.4759916
ENTPD1	445.0163872	716.4554791	207.0631274	1291.321081	1905.08022	3458.069964	3453.844875	3284.724503	6202.039673	5552.167685	5967.114545
ENTPD2	33	33	33	33	33	33	33	33	33	33	33
EOMES	33	33	33	33	33	33	33	33	33	33	33
ERAP2	628.402261	1344.704128	920.7700771	1567.32864	3514.028441	463.6381342	510.0924304	3077.426916	851.9573431	294.6277531	2416.611499
FAM30A	33	72.00557579	163.0071428	33	37.4174005	33.52586156	33	36.27707785	33	36.12601877	33
FAS	1606.460255	1740.734795	911.9588802	1551.198328	1565.116409	873.3078083	2802.68706	1273.466772	926.5473156	846.9544401	1063.999755
FASLG	33	79.20613337	33	33	33	33	32.708515762	23.08541318	68.76263097	86.63243462	38.64604983
FASN	611.2862461	311.4241153	493.427027	560.0802745	651.0627687	272.2954122	822.6933225	477.7267135	554.1801869	878.2636563	999.0415009
FCAR	33	88.20683034	163.0071428	33	33	33	33	33	33	33	33
FCGR3A/B	127.1475392	185.4143577	317.2030888	34.05288069	63.07504655	42.5206049	33	21.67202053	29.7194422	33	33
FCRL2	33	61.20473942	33	33	33	33	33	33	33	33	33
FCRL3	349.6557328	815.4631458	33	509.8970819	380.5884165	98.12447285	31.59864613	289.7454919	33	142.8984742	239.2766064
FH	224.9533386	266.4206304	303.9862934	683.7459991	667.0987974	767.0062961	1057.990384	918.7052182	884.5904561	1605.600834	1179.115648
FKBP1A	33	33	33	81.54768797	90.87082978	149.6398211	150.0935691	126.2630761	152.093616	175.0104909	135.6723026
FLCN	227.3984836	289.8224426	334.8254826	753.6440174	585.8495849	489.8046603	238.1183691	250.1704979	547.7701111	240.0373247	370.0153707
FNIP1	537.9318966	522.0404245	647.6229729	624.6015222	581.5733106	965.7083536	819.3077533	471.602012	752.8925357	388.5554019	470.330649
FOS	3929.34799	4354.537196	21627.08282	1496.534494	8052.224587	170.0824196	24.26324614	90.92826006	2531.979929	477.6662482	953.8174
FOSB	5293.738891	5411.219021	16855.81969	440.8951921	1448.587934	84.22350586	49.65501535	55.12231309	1345.533177	262.5157364	272.9891179
FOXO1	1860.755333	1882.945807	2352.589575	966.9225859	957.8854527	662.3401917	588.5247842	686.4376938	420.1513299	751.4211904	758.9426381
FOXP3	846.0201646	900.0696974	343.6366795	1751.931099	1384.443818	663.1578957	1126.830292	1838.352698	650.3313234	1890.594982	1424.148049
FOXP3_delta2	1621.131125	1706.532146	1022.098842	2643.578896	2974.148805	166.480631	2386.262045	4143.5961	1369.425278	4290.165429	3054.682449
FOXP3_delta7	171.1601489	95.40738792	33	287.657229	307.8917527	160.2699723	208.7767691	358.0594697	152.093616	440.737429	325.6135262
FPR1	33	33	33	33	33	33	33	33	33	33	33
FUT4	154.044134	190.8147758	220.2799227	159.5108622	204.1920999	222.4154718	260.1245691	177.6163422	193.4677414	147.7152767	180.0741471
FUT7	251.8499334	327.6253698	242.307915	354.8668619	1421.861219	1182.399898	940.623984	1251.32362	398.0074318	1287.691869	869.9472493
FYN	3924.4577	2941.427771	2846.016602	1570.017026	1071.206723	1350.84691	389.3404613	548.8674765	836.8062549	1652.163258	791.8328933

GADD45B	2745.897818	2936.027353	9137.211196	561.8725314	933.2968753	322.1753525	160.8145384	223.7871685	574.5758825	116.4060605	119.227175
GARS	953.6065439	718.2556185	1260.001158	1275.190769	1507.386706	1372.924916	1519.556322	1267.813201	1175.374802	1941.974209	1489.106303
GART	361.8814577	286.2221638	308.3918918	856.6987879	801.8014392	585.4760213	964.3229686	843.3242772	743.5687891	1282.875067	1112.512881
GATA3	1846.084463	2001.755007	2321.750386	2146.227612	1877.284436	8948.951924	1369.462753	2590.277585	8907.091647	4934.814164	2538.305443
GFER	92.91550941	147.6114304	158.6015444	79.75543109	100.835779	135.7388541	111.159523	106.4755791	93.23746572	97.13885047	87.98143259
GFM1	246.9596434	282.621885	303.9862934	500.9357975	443.663463	538.8668967	490.9075381	513.5326604	574.5758825	622.1703233	477.7309564
GLS	3476.996168	3164.645056	3982.661003	2133.681814	2078.269331	2099.863719	1351.970645	1818.09407	2336.181251	2780.097844	2325.341041
GLS2	33	70.20543639	33	33	33	36.79667732	20.87767691	22.61428229	22.72663227	33	33
GLUD1/2	1902.322798	1895.546783	2202.799227	1690.098236	2562.5574	3592.991114	2886.197767	3362.93223	2327.440238	4370.445471	3807.047036
GNAI2	3134.67587	3180.84631	2713.846848	6056.035992	6580.117145	6472.944392	8186.306395	6916.201335	6955.514943	6562.89341	6434.156168
GNG10	88.02521944	100.8078061	33	241.9546786	292.9247925	219.144656	170.971246	280.3228743	177.733919	243.2485264	189.9412236
GNLY	33	33	33	33	33	185.6187945	33	33	361.8779138	33	33
GOT1	92.91550941	95.40738792	33	83.33994485	105.83779	86.67661768	130.3444153	122.0228982	153.8418184	185.4468964	161.9845067
GPI	476.803272	559.8433518	625.5949806	947.2077603	1154.594073	1341.034462	1848.520799	1708.320575	1144.489892	1901.834188	1709.471013
GRK2	1239.688507	1312.301619	1863.568146	1935.637429	2629.908721	1907.703293	3640.615444	2658.591562	2408.440286	2856.363884	3015.214143
GRK4	33	33	33	33	33	33	33	33	27.97123972	33	33
GRPEL1	251.8499334	145.811291	290.769498	76.17091734	114.3903387	117.7493674	132.6014615	140.3970026	94.98566821	159.757283	120.8716878
GZMA	149.1538441	225.0174243	215.8743243	33	499.2550295	3902.083204	24.82750768	31.09463816	13146.48267	33	199.8083002
GZMB	92.91550941	111.6086425	33	51.97544948	519.5673326	50377.10436	163.0715845	253.4684141	95670.96358	2089.689486	2103.331818
GZMH	33	33	33	33	33	33	33	33	44.28779622	33	33
GZMK	154.044134	225.0174243	220.2799227	33	48.10808635	29.43734185	33	33	33	33	33
GZMM	134.4829741	135.0104546	149.7903475	85.13220173	253.3692548	115.2962556	229.0901845	72.08302481	29.7194422	69.04083587	113.4713803
HACD4	254.2950784	298.8231395	33	734.8253202	967.50707	518.4242982	879.1194764	984.6635416	298.3598903	296.2333539	581.3352602
HADHB	491.4741419	419.432479	334.8254826	942.7271181	1003.855402	1214.290351	1679.806599	1297.023316	924.7991131	1450.660354	989.1744243
HAVCR2	112.4766693	127.809897	33	675.6808432	705.5852665	1740.073985	262.3816152	674.6594218	2367.648895	1465.913562	1271.208362
HDAC7	356.9911677	421.2326184	418.5318532	625.4976506	555.9156645	217.5092481	274.7953691	345.3389359	247.6620183	656.6907412	499.1096222
HDAC8	151.598989	160.2124061	33	613.8479809	508.8766468	311.5452013	279.3094614	268.5446023	503.4823149	364.4713894	367.5486016
HDC	33	33	33	33	39.5553767	33	33	33	33	33	33
HIF1A	2007.464032	1569.721552	2608.114285	1153.317301	1277.53696	3005.879685	1841.185399	1637.650943	3018.562953	2462.99168	2465.124625
HK2	163.824714	216.0167274	312.7974903	138.8999081	140.0479847	103.0306965	133.7299845	189.8657451	228.431791	325.9369693	208.030864
HK3	33	33	33	33	33	33	33	33	33	33	33
HLA-DQA1	229.8436285	33	33	2122.032144	33	33	31778.64556	33	33	6041.875939	33
HLA-DRA	601.5056662	379.8294123	806.2245173	9557.209805	8676.560641	11145.30471	79573.29063	19805.39998	17839.8236	23048.39998	16982.88326
HLA-DRB1	980.5031388	801.0620307	1894.407336	3894.574197	2913.211896	4823.635544	18025.8991	5022.255193	7633.234772	3908.835231	2669.866464
HLA-E	5349.977226	5458.022645	4713.990347	9308.086098	6035.961235	5810.6042	5037.162751	4928.029017	3140.354392	3424.746579	3540.635969
HMGCR	190.7213088	171.0132425	246.7135135	599.5099259	709.8615409	618.1841789	800.6871226	637.4400822	623.525552	1086.188964	1127.313496
HNF1A	33	75.60585458	33	55.55996323	57.72970363	33	20.31341537	33	19.81296147	33	33
HSD11B1	33	75.60585458	33	57.72974343	33	33	33	33	24.47483475	33	33
HSPA9	936.4905291	891.0690004	903.1476833	505.4164397	503.5313038	690.9598296	659.0574765	625.1906793	656.158665	1145.596195	862.5469419
HSPE1	4545.524526	4509.349184	2810.771814	2062.887667	2681.224013	2601.933938	3710.583875	2950.692709	2284.900644	5996.919116	4461.563114
ICAM1	154.044134	234.0181213	237.9023166	363.8281463	299.339204	414.5758978	439.5597382	213.4222892	1496.461325	603.7059137	502.3986478
ICOS	3190.914205	2100.762674	1546.365058	1804.802677	1293.572989	895.3858147	776.4238764	1165.106669	651.4967917	3503.42102	1657.668861
ICOSLG	364.3266027	240.2263456	415.318532	162.1992475	172.1200423	117.7493674	273.1025844	159.2422378	43.70506206	89.91364672	62.49148483
ID2	371.6620376	390.6302487	1198.32278	179.2256878	490.7024808	2200.441304	431.6600766	597.8650882	5561.61483	1214.637031	1482.528252
IDH3A	467.022692	331.2256486	326.0142857	699.8763111	717.345021	811.9800128	1223.319015	995.9706827	669.5615507	1805.498138	1215.294929
IDO1	33	61.20473942	154.1959459	33	33	33	33	33	33	33	33
IDO2	33	75.60585458	33	33	33	33	33	33	33	33	33
IFI30	33	68.405297	229.0911197	156.8224769	205.2611684	231.4102151	302.4441844	189.3946142	333.9066741	248.8681293	238.45435
IFI35	33	79.20613337	33	254.5004767	246.9548433	152.0929329	187.8990922	206.3553259	169.5756408	221.5729151	189.9412236
IFI6	33	70.20543639	33	138.0037796	99.42337847	121.8378871	134.8585076	90.45712918	69.34536513	81.88564255	82.22563793
IFIT1	33	68.405297	299.5806949	33	33	33	33	33	33	33	33
IFIT2	229.8436285	205.215891	3920.982625	51.97544948	52.3843607	40.88519702	36.67699998	24.9699367	36.71225213	48.97082544	27.9567169
IFIT3	33	33	444.9654439	50.1831926	33	33	20.87767691	33	33	27.29521418	33
IFITM3	312.978558	406.8315032	793.0077219	144.2766787	206.330237	103.0306965	38.93404613	48.05534988	90.90652908	73.85763837	28.77897328
IFNA1	134.4829741	246.6190971	480.2102316	40.32577977	64.14411514	57.23927583	33	26.85446023	21.56116395	33	33
IFNAR1	926.7099491	671.4519942	365.6646718	1121.952806	847.7713884	1530.741776	1223.319015	865.9385595	1207.425181	1163.257804	1019.59791
IFNB1	33	79.20613337	180.6295367	33	33	33	33	33	33	33	33
IFNG	334.9848629	399.6309456	361.2590733	33	148.6005334	537.2314888	33	40.51725578	1201.59784	303.4585577	161.1622503
IFNGR1	513.4804467	462.6358244	797.4133203	445.3758343	561.2610075	699.136869	449.1521843	437.6805886	685.8781072	371.6965931	504.8654169
IFNGR2	171.1601489	151.2117092	193.846332	339.6326785	114.3903387	112.8431438	236.4255845	267.6023405	94.98566821	147.7152767	120.0494314
IGF1R	33	33	33	46.59867884	33	50.6976443	33	19.78749701	52.44607447	33	33
IKBE	608.8411011	959.4742974	414.1262548	1252.787558	765.4531073	312.6629052	380.8765382	451.814515	512.5757858	480.0746494	346.1699357
IKZF2	2178.624181	1949.550964	947.2036678	2968.873519	429.7655714	444.0132396	49.09075381	1828.45895	358.3815089	2258.277573	615.0477717
IKZF4	178.4955839	196.215194	158.6015444	244.6430639	157.1530821	526.6013376	343.0710152	346.7523285	504.6477832	480.0746494	349.4589612
IL10	33	33	33	33	850.9785942	468.5443578	33	222.8449068	33	223.178516	1220.228467
IL10RA	4584.646846	4727.166051	3969.444208	5445.772525	4062.460625	3258.550202	836.2355995	1074.178409	5754.499838	435.1178261	620.8035664
IL11	33	33	33	33	33	33	33	33	33	33	33
IL12A	33	68.405297	158.6015444	51.07932104	100.4924471	45.79142066	235.2970614	123.4362909	32.633113	45.75962378	123.3384569
IL12B	33	117.0090607	215.8743243	33	33	31.07274973	33	33	33	33	33
IL12RB1	327.6494279	403.2312244	277.5527027	1044.88576	671.3750718	1449.371672	328.9644767	405.6436887	391.597356	314.6977635	304.2348603
IL12RB2	337.4300079	349.2270426	409.7206563	1000.079338	1139.627112	1045.84334	1070.968399	1239.074217	591.6048845	1951.607814	1867.344237
IL13	33	126.0097576	158.6015444	33	41.69367484	1565.085342	33	16.48898084	7695.004593	844.5460388	133.2055334
IL15	90.47036443	106.2082243	154.1959459	44.80642196	63.07504655	63.78090735	59.2474615	24.49880582	82.16551667	28.0980146	27.9567169
IL16	1376.616626	1252.897019	863.4972972	3886.509041	1618.569839	915.8284132	1049.526461	921.0608726	1086.216476	1182.525014	760.5871509
IL17A	90.47036443	33	33	33	33	33	33	33	33	33	33
IL17C	33	81.00627276	33	33	33	33	33	33	33	33	

IL18	33	93.60724853	33	37.63739445	56.66063504	33	33	18.84523525	27.97123972	28.90081502	33
IL18BP	127.1475392	133.2103152	176.2239382	62.72899075	50.24622353	40.88519702	37.24126151	27.79672199	39.04318877	33	33
IL19	33	33	33	33	33	33	33	33	33	33	33
IL1A	33	97.20752732	33	267.0462749	639.3030142	1271.529627	1660.621707	491.389509	1596.691601	2886.0675	1865.699725
IL1B	33	90.00696974	33	33	36.34833191	33	33	33	23.89210059	33	33
IL1F10	33	33	33	33	33	33	33	33	33	33	33
IL1R1	107.5863793	33	33	577.1067149	164.6365622	43.33830884	31.59864613	484.7936767	33	325.9369693	296.0122966
IL1RN	33	33	33	51.07932104	52.3843607	81.77039404	33	65.95832336	57.10794776	232.0093205	95.38174
IL2	33	97.20752732	154.1959459	33	33	33	33	33	68.76263097	33	33
IL20	33	100.8078061	180.6295367	33	33	33	33	33	33	33	33
IL21	85.58007446	91.80710913	33	33	33	33	33	33	21.56116395	28.90081502	33
IL21R	777.5561051	505.8391699	273.1471042	559.1841461	802.8705078	340.1648392	1095.795907	619.5371087	365.3743188	654.2823399	773.7432529
IL22	33	33	33	33	33	33	33	33	47.78420118	33	33
IL23A	268.9659483	293.4227213	519.8606177	194.4598713	145.3933276	100.5775847	57.55467689	127.6764688	79.83458003	293.0221522	226.9427607
IL23R	33	79.20613337	33	43.91029352	88.73269261	33	239.2468922	196.4615774	29.13670804	115.6032601	198.1637874
IL24	33	66.60515761	33	33	33	27.80193397	33	20.72975877	33	33	33
IL25	33	33	33	33	33	33	33	33	33	33	33
IL26	33	158.4122667	193.846332	33	84.45641827	42.5206049	33	18.84523525	30.30217636	33	33
IL27	33	33	33	33	33	33	33	33	33	33	33
IL2RA	2860.819632	2460.790553	1321.679536	18944.15521	15132.66583	20245.53186	15354.68497	24316.47817	27773.69284	30910.22446	29426.9113
IL2RB	1198.121042	1168.290467	599.1613899	1833.478787	2407.542455	4001.843084	1634.101414	2500.762717	3702.692858	3669.600707	3609.705505
IL2RG	4127.404734	3625.480741	1881.19054	8684.380705	8406.086289	8633.318203	7152.014995	7618.657479	7102.946686	6536.400996	7150.341474
IL3	33	91.80710913	33	33	33	33	33	33	1329.799355	33	33
IL31	33	79.20613337	33	33	33	33	33	33	33	33	33
IL32	6655.684648	6635.313809	2017.764092	33599.4397	46784.57945	82033.69471	67369.44208	64230.68642	51220.58453	40058.93801	41162.9766
IL33	144.2635541	165.6128243	259.9303088	45.7025504	59.8678408	41.70290096	19.74915383	18.37410436	24.47483475	33	29.60122966
IL34	33	33	33	33	33	33	33	33	33	33	33
IL36A	33	93.60724853	149.7903475	45.7025504	45.96994918	33	19.1848923	18.84523525	33	33	33
IL36B	33	33	33	33	33	33	33	33	33	33	33
IL36G	33	33	33	33	33	33	33	33	33	33	33
IL36RN	33	68.405297	33	33	33	33	33	16.48958084	33	33	33
IL37	33	88.20683034	33	35.84513757	47.03901777	33	33	19.78749701	33	33	35.35702431
IL3RA	33	33	33	30.46836693	41.69367484	462.0027263	33	24.9699367	1508.116008	162.9684847	109.3600984
IL4	97.80579938	84.60655155	33	33	33	70.32253887	33	33	97.89933901	31.30921627	28.77897328
IL4R	530.5964616	477.0369396	422.9374517	554.7035039	317.5133699	972.2499851	352.0991998	336.3874491	1432.360567	345.2041794	448.9519831
IL5	33	73.80571518	33	33	33	2217.613086	23.13472306	33	2077.447283	148.5180772	97.84850914
IL6	33	33	33	33	33	33	33	33	33	33	33
IL6R	398.5586325	354.6274608	246.7135135	199.836642	295.0629296	64.59861129	181.1279537	114.4848041	27.38850556	53.78762795	43.5795881
IL6ST	5626.278609	3200.647844	6877.139188	2549.48541	1554.425724	1888.078398	2522.249075	1880.754478	809.4177493	685.5915562	939.8390416
IL7	83.13492947	100.8078061	154.1959459	34.94900913	75.90386958	39.24978914	19.74915383	24.9699367	26.8057714	33	33
IL7R	1249.469087	1006.277922	638.811776	33	33	85.0412098	33	33	41.37412541	33	33
IL9	33	33	33	33	33	33	33	33	20.39569563	54.59042836	97.84850914
IRF1	826.4590048	864.0669095	2401.051158	524.235137	831.7353596	149.6398211	95.92446148	140.8681335	301.8562953	150.123678	123.3384569
IRF3	207.8373237	232.2179819	185.0351351	250.915963	202.0539627	83.40580192	103.824123	97.5240924	95.56840237	64.22403337	64.95825397
IRF4	1806.962144	1204.293255	1819.512162	3673.230472	2581.800634	1935.505227	2808.329675	3052.92811	1502.288666	3734.62754	2449.501754
IRF5	33	95.40738792	33	205.2134126	129.3572989	277.2016358	322.1933383	220.0181215	466.7700628	426.2870215	254.0772212
IRF6	85.58007446	66.60515761	33	33	38.48646908	37.61438126	33	16.48958084	42.53959374	33	33
IRF7	447.4615322	367.2284365	502.2382239	315.4372106	329.2731244	102.2129925	94.23167686	93.2891447	173.6547799	101.1528526	80.58112517
IRF8	33	33	33	33	33	33	33	33	33	33	33
IRF9	1359.500611	1612.924898	2423.07915	2061.991539	1782.137332	933.8178999	859.9345841	865.9385595	974.3315168	680.7747537	698.9179224
ISG15	535.4867516	714.6553397	986.8540539	359.3475041	728.0357068	312.3629052	315.9864613	489.9761164	145.6835402	340.3873769	314.9241933
ITGAM	136.9281191	124.2096182	163.0071428	1389.895209	423.3511599	115.2962556	208.7767691	404.7014269	280.8778655	239.2345243	134.8500462
ITGB2	953.6065439	1216.894231	938.3924709	2188.345649	1647.43469	820.9747562	836.799861	930.0123594	1250.547509	842.940438	841.9905324
ITGB8	100.2509444	135.0104546	163.0071428	205.2134126	131.495436	166.8116038	160.8145384	198.346101	20.97842979	821.2648267	244.2101447
JAG1	33	33	33	33	33	33	33	33	33	33	33
JAK1	3007.528331	3123.24185	4136.856949	1785.087851	1751.134343	1502.122139	1390.34043	1294.19653	1402.058391	806.0116188	1035.220782
JAK2	220.0630486	280.8217456	268.3638996	1418.571319	858.4620743	444.0132396	859.3703225	949.7998564	664.3169433	696.8307621	660.2718726
JUN	3701.949506	3693.886038	10044.76448	2150.708254	7446.062699	1158.686484	362.2559075	375.4913123	4936.92381	1200.186624	1287.65349
JUNB	5951.482892	6831.529003	12608.82278	738.4098339	1823.831007	509.4295549	661.8787842	584.2022926	1001.720022	673.54955	718.6520755
KIR3DL1/2	308.088268	586.8454427	1290.840347	95.885743	150.7386706	188.8896102	22.57046152	64.07379984	83.91371915	30.50641585	33
KLF2	6440.511889	8044.822955	10732.03784	6433.306065	5367.793369	1682.017005	948.5236455	2390.518091	453.9499112	101.1528526	222.8314788
KLRB1	1608.9054	684.05297	674.0565636	77.06704578	107.9759272	237.1341427	50.78353843	77.26546451	205.7051588	33.71761752	44.40184448
KLRC1/2	33	167.4129637	198.2519305	41.22190821	65.21318372	33.33830884	33	16.48958084	85.66192163	33	33
KLRD1	33	120.6093394	207.0631274	69.89801826	52.3843607	150.457525	33	33	175.9857166	42.54842211	33
KLRF1	33	33	33	33	33	33	33	33	33	33	33
KLRG1	178.4955839	205.215891	224.6855212	98.57412832	94.07803554	35.16126944	28.77733844	32.03689992	33	33	33
KLRK1	33	79.20613337	33	33	40.62460625	33	33	33	75.7554409	33	33
KYAT1	33	77.40599397	33	155.9263484	121.8738188	51.51534824	85.76775379	85.27468949	54.19427695	60.21003128	71.536305
LAG3	127.1475392	61.20473942	33	1221.423063	5358.171751	3348.497636	3243.375321	4794.698977	819.9069642	2369.866831	4133.482819
LAIR1	100.2509444	183.6142183	33	158.6147337	33	27.80193397	33	16.96071172	72.25903594	33	33
LAMP1	1371.726336	1321.302316	1229.161969	2102.317318	1926.461591	3015.692132	2528.455952	2240.698471	2068.706271	1941.171409	2289.984016
LAMP2	410.7843574	424.8328972	427.3430501	1569.120897	1518.077392	2673.074181	2606.888306	1865.678289	1911.950782	2058.380269	2114.021151
LAMTOR1	136.9281191	153.0118486	33	262.5656327	241.6095004	294.3734185	283.8235537	256.2951993	202.7914879	260.9101356	229.4095298
LAT	564.8284914	707.4547821	449.3710424	1014.417393	838.1497712	989.4217679	262.9458768	433.9115415	952.7703529	632.6067287	438.2626502
LCK	1381.506916	1371.706219	1096.994015	2289.608162	2759.26602	1299.331561	1270.716984	1958.019942	956.849492	1432.998745	1201.31657
LDHA	1611.350545	1389.707613	1771.050579	1880.973594	3475.541972	3404.919208	4393.340336	4389.055289	4459.081798	7348.835018	7622.316636
LDHC	33	33	33	33	33	33	33	33	33	33	33

LEF1	1489.093296	1834.342043	867.9028956	533.1964214	140.0479847	116.1139595	34.41995382	24.49880582	33	118.8144617	41.11281897
LEFTY1	33	70.20543639	33	33	33	33	33	33	33	33	33
LIF	33	82.80641216	33	77.06704578	91.93989837	952.6250906	480.7508305	66.90058512	3431.721473	800.3920159	345.3476793
LILRA1	33	97.20752732	215.8743243	33	33	38.4320852	33	18.37410436	39.04318877	33	33
LILRA5	33	33	33	33	37.4174005	33	33	33	33	33	33
LILRB2	33	33	33	33	33	33	33	33	33	33	33
LILRB3	117.3669593	169.2131031	277.5527027	76.17091734	96.21617271	73.59335464	33	23.08541318	67.59716265	33	33
LILRB4	33	33	33	33	33	33	33	33	33	33	33
LNx1	33	33	33	33	33	33	33	33	33	33	33
LPAR6	902.2584993	909.0703943	365.6646718	2405.208731	1619.638907	6030.56656	1482.315061	832.0171361	2083.274625	414.2450152	381.52696
LRRC32	132.0378292	127.809897	207.0631274	353.9707335	147.5314648	53.15075613	49.65501535	111.1868879	33	113.9976592	57.55794655
LTA	378.9974726	370.8287153	1017.693243	2535.147355	2717.572345	722.0325794	10842.84972	6010.216651	2344.922263	11549.8896	10560.23868
LTB	3083.327825	3459.867917	2379.023166	24628.2979	13328.07806	1970.666496	7223.111949	9530.977725	1355.439658	2616.326559	2695.356411
MAF	897.3682093	858.6664913	894.3364864	2846.103923	5284.406019	3429.450326	2196.670168	3651.264329	1836.195341	1602.389633	3839.115035
MAGED1	254.2950784	225.0174243	255.5247104	397.881027	421.2130227	509.4295549	510.656692	483.3802841	405.5829759	612.5367183	517.1992626
MAML2	804.4526999	691.2535276	762.1685327	232.0972658	117.5975444	221.5977678	129.2158922	52.76665869	593.8061098	144.5040751	52.62440828
MAML3	33	84.60655155	255.5247104	35.84513757	36.34833191	45.79142066	33	21.20088965	41.37412541	31.30921627	33
MAP2K2	584.3896513	662.4512973	678.4621621	603.0944396	843.4951141	601.0123962	599.810015	591.7403867	675.9716265	501.7502607	464.5748543
MAP2K7	457.2421121	459.0355457	678.4621621	301.0991556	345.3091532	296.8265304	236.4255845	249.699367	339.1512816	234.4177218	246.6769138
MAP3K14	682.1954507	702.0543639	1154.266795	662.2389166	671.3750718	529.8721534	603.1955842	323.6669153	466.7700628	256.0933331	379.8824472
MAP3K7	562.3833464	498.6386123	528.6718146	887.1671549	747.2789414	851.229802	651.157815	708.1097144	847.8782039	812.4340221	703.0292043
MAPK12	33	33	33	33	150.7386706	62.14549947	59.81172304	96.58183063	33	33	108.5378421
MAPK3	256.7402234	253.8196547	149.7903475	547.5344764	632.8886027	592.0176528	912.9751686	620.0082396	580.9859583	631.8039283	619.1590536
MAX	3560.131097	2925.226516	2246.855212	2507.367373	2184.10712	1715.542867	1582.753614	1555.67417	1579.209576	1638.515651	1491.573072
MCAT	33	73.80571518	33	33	37.4174005	32.70815762	24.26324614	28.26785287	25.05756891	33	28.77897328
MDFIC	33	33	33	43.01416508	33	35.97897338	33	19.78749701	60.02161856	65.02683379	33
MDH2	205.3921787	295.2228607	400.9094594	289.4494859	373.1049364	300.0973461	541.6910766	476.3133208	204.5396904	361.2601877	277.1003998
MFN2	364.3266027	369.0285759	497.8326254	380.8545867	391.2791023	623.0904026	529.2773227	520.5996237	713.2666128	573.1994978	458.8190597
MID1P1	163.824714	169.2131031	295.1750965	400.5694123	414.7986112	583.8406134	332.3500459	415.0663063	734.8277767	645.4515354	626.559361
MIF	687.0857406	637.2493457	405.3150579	939.1426043	1455.002345	1642.767216	2890.71186	2118.675572	1459.749073	2328.12121	2114.021151
MINOS1	33	81.00627276	33	33	33	27.80193397	33	33	33	33	33
MK167	92.91550941	82.80641216	33	197.1482566	392.3481709	269.0245964	524.7632304	600.2207426	625.2737545	565.9742941	722.7633574
MMP2	33	91.80710913	33	35.84513757	36.34833191	148.8221172	33	33	33	33	33
MMP9	33	33	220.2799227	33	37.4174005	35.97897338	33	16.96071172	108.9712881	115.6032601	33.71251155
MPC2	413.2295024	396.0306668	607.9725868	649.6931185	809.2849193	1410.539297	1332.221491	1007.748955	793.683927	1016.345328	999.8637572
MR1	139.3732641	142.2110122	207.0631274	270.6307887	152.8768077	274.748524	204.8269383	166.309201	195.2159439	93.9276488	115.9381495
MS4A1	33	33	33	33	33	33	33	33	33	33	33
MS4A2	33	33	33	33	33	33	33	33	33	33	33
MS4A4A	100.2509444	118.8092001	211.4687258	33	33	40.06749308	33	33	33	33	33
MT2A	183.3858738	144.0111516	286.3638996	78.85930265	212.7446485	803.8029734	339.1211844	290.2166228	648.5831209	263.3185368	297.6568093
MTCP1	33	88.20683034	33	92.30122924	60.93690938	74.41105858	51.9120615	55.59344397	76.33817506	71.44923712	62.49148483
MTHFD1	259.1853684	297.0230001	220.2799227	514.3777241	721.6212953	676.2411587	1543.255307	1195.730176	955.6840237	1611.220437	1372.345897
MTHFD1L	151.598899	144.0111516	158.6015444	517.9622379	544.1559101	273.93082	827.7716764	550.7520001	124.1223762	1037.218139	783.6103295
MTHFD2	552.6027665	448.2347093	221.1893821	1163.174714	1246.533971	1665.662927	1129.087338	1332.358132	2266.835885	2037.507459	1606.688965
MTHFR	102.6960893	111.6086425	176.2239382	287.657229	197.7776883	106.3015123	157.9932307	124.3785526	138.1079961	109.9836571	107.7155857
MTHFS	198.0567437	214.216588	220.2799227	262.5656327	265.1290092	410.4873781	257.3032614	269.9579949	382.8563436	383.7385994	312.4574241
MTOR	259.1853684	230.4178425	277.5527027	427.4532655	317.5133699	237.9518467	215.5479076	243.1035347	367.7052554	363.668589	281.2116817
MX1	506.1450118	633.6490669	978.042857	201.6288988	109.0449957	61.32779553	53.60484612	65.0160616	43.70506206	105.9696551	43.5795881
MYC	552.6027665	378.0292729	599.1613899	1245.618531	991.0265789	562.580311	1462.565907	1329.531347	1090.878349	2055.169068	1407.702921
MYL9	33	33	33	33	33	34.3435655	74.48252303	22.61428229	33	37.7316196	66.60276672
NAA20	207.8373237	199.8154728	224.6855212	393.4003848	456.4922861	577.2989819	572.7254612	514.9460531	469.1009994	748.2099887	536.9334157
NBL1	33	84.60655155	33	33	33	83.40580192	33	21.20088965	132.2806545	33	33.71251155
NCAM1	33	100.8078061	33	33	41.69367484	34.3435655	33	33	33.21584716	33	33
NCAPD2	268.9659483	399.6309456	365.6646718	681.9537423	837.0807026	637.8090735	1523.506153	1465.21704	787.8565854	1286.086268	1396.191332
NCAPG2	173.6052939	183.6142183	242.307915	289.4494859	412.6604741	413.7581938	691.2203842	679.3707306	792.5184587	732.1539804	792.6551497
NCAPH	403.4489224	489.6379154	625.5949806	408.6345683	837.0807026	1082.640017	1204.134122	1226.353684	1418.957681	1355.127104	1757.984139
NCR1	33	33	33	33	33	33	33	30.62350727	33	33	33
NCR2	33	33	33	33	33	33	33	33	33	33	33
NCR3	33	131.4101758	33	303.7875409	235.1950888	105.4838083	247.7108152	399.0478563	87.99285828	106.7724555	159.5177376
NDUFA1	1493.983586	1398.70831	1233.567567	3178.567574	3622.004368	5475.345585	4688.44912	3660.686946	3837.887183	4623.327602	3851.448881
NDUFA2	200.5018887	165.6128243	33	249.1237061	283.3031752	173.3532354	313.7294152	266.1889478	160.2518942	246.4597281	243.3878883
NDUFA4	892.4779193	822.6637034	1079.371621	2261.828181	2261.080059	4742.682854	4858.291843	4009.323799	3535.448153	4598.440789	3580.926532
NDUFA6	821.5687148	671.4519942	572.7277991	538.573192	615.7835053	1363.930173	1219.369184	966.7605681	972.5833143	1187.341817	1047.554627
NDUFAB1	618.6216811	437.4338729	418.5318532	1200.812109	1452.864208	1834.109938	2222.626199	2040.938977	1769.180912	3057.063988	2208.580635
NDUFB9	513.4804467	484.2374972	550.6998069	918.5316502	893.7413376	1237.186062	1298.930061	1197.143569	855.453748	1306.156279	876.5253003
NEDD8	481.6935619	511.2395881	321.6086872	1074.457999	1226.221668	2917.567659	2167.328568	1979.220832	1754.029824	2293.600792	1975.059823
NEK2	139.3732641	367.2284365	436.154247	169.368275	358.1379762	326.2638722	596.9887073	579.4909838	407.3311784	553.1294874	637.248694
NEFAT5	315.423703	228.6177031	334.8254826	526.9235223	339.9638102	298.4619382	359.4345998	324.6091771	396.8419635	391.7666036	310.8129114
NFATC1	643.0731309	455.4352669	528.6718146	193.5637429	124.0119559	159.4522684	60.37598458	59.8336219	132.8633887	69.84363629	27.9567169
NFATC2IP	276.3013832	253.8196547	33	414.0113389	353.8617019	310.7274973	263.5101383	320.3689992	488.9139609	329.9509714	286.14522
NFIL3	156.489279	163.8126849	281.9583011	129.9386237	361.345182	1187.306121	223.4475691	428.257971	2000.526374	337.9789756	943.9503234
NFKB2	4249.661983	3819.895796	4132.451351	1293.113338	1350.233624	1291.972226	1252.495621	972.4141387	3279.045123	2076.844679	1682.336552
NFKBIA	9941.959507	8246.438567	19904.49382	2313.80363	5031.036764	2900.395877	2503.064183	2310.896972	9332.487585	6399.122125	5245.173444
NKG7	112.4766693	151.2117092	193.846332	67.20963294	562.3300761	2546.33007	360.5631228	605.8743131	1621.749169	329.148171	1011.375347
NME1	122.2572492	138.6107334	167.4127413	433.72							

NOD2	33	82.80641216	33	33	64.14411514	54.78616401	58.11893842	58.89136014	277.9641947	33	48.51312638
NOTCH1	325.2042829	378.0292729	308.3918918	210.5901832	287.5794495	470.9974697	267.4599691	236.9788332	342.0649524	408.6254123	334.6583464
NOTCH2	308.088268	246.6190971	149.7903475	668.5118157	794.3179591	1105.535727	936.6741532	791.0287494	1467.324617	735.3651821	851.0353526
NPRL3	222.5081936	270.0209092	246.7135135	359.3475041	330.342193	252.6705176	428.838769	331.6761403	248.2447525	494.5250569	382.3492164
NR3C1	1019.625459	877.6671883	960.4204632	344.1133207	376.3121421	1246.180805	599.2457535	458.4103473	1265.115863	380.5273977	413.5949588
NRF1	151.598989	164.6135213	207.0631274	59.14447699	82.3182811	140.6450777	90.84610763	80.09224979	96.15113653	61.81563212	41.93507534
NRL	33	72.00557579	33	34.94900913	36.34833191	33	33	33	33	33	33
NRP1	33	90.00696974	176.2239382	43.91029352	53.45342928	33	33	33	33	33	33
NSD2	581.9445063	558.0432124	638.811776	1293.113338	1402.617984	1153.78026	1572.032645	1303.619148	1808.224101	1592.756028	1827.875931
NT5E	90.47036443	154.8119879	202.6575289	327.0868803	366.6905249	674.6057508	49.65501535	289.7454919	441.7124939	346.0069798	673.4279747
OAS1	136.9281191	297.0230001	167.4127413	653.2776322	839.2188397	149.6398211	213.2908614	456.9969547	174.8202482	225.5869172	227.7650171
OAS2	254.2950784	468.0362426	422.9374517	959.7535584	915.1227093	532.3252652	900.5614148	742.9733996	555.3456552	691.2111591	629.8483866
OAS3	33	109.8085031	33	132.627009	156.0840135	152.9106369	199.1843229	177.1452113	314.0937127	235.2205222	244.2101447
OASL	141.8184091	189.0146364	1828.323359	39.42965133	60.93690938	47.42682854	42.8838769	22.14315141	20.97842979	33	33
OAT	787.336685	655.2507397	1471.469884	234.7856511	236.2641574	552.7678637	402.3184767	342.5121506	414.3239883	694.4223608	422.639779
OMA1	100.2509444	124.2096182	33	261.6695043	252.3001862	220.7800639	343.6352767	236.5077023	252.3238916	215.9533122	263.1220414
OPA1	557.4930565	464.4359638	784.196525	878.2058705	961.0926585	1134.155365	1063.632999	1113.282272	972.0005802	1507.659183	1287.65349
OXSM	88.02521944	111.6086425	211.4687258	104.8470274	100.4924471	122.6555911	113.4165692	111.1868879	87.99285828	78.67444088	77.29209966
PARP1	334.9848629	327.6253698	242.307915	915.8432649	1244.395834	1122.70751	1844.570968	1566.039049	992.3962758	1697.922882	1777.718292
PCCA	117.3669593	104.4080849	33	159.5108622	132.5645046	65.41631523	58.11893842	54.18005133	94.98566821	36.92881919	43.5795881
PCK2	144.2635541	149.4115698	171.8183397	373.6855592	316.4443014	252.6705176	305.2654921	268.5446023	238.9210059	415.0478156	277.9226562
PDCD1	33	33	33	33	54.52249787	33	33	33	33	33	33
PDCD1LG2	33	33	33	54.66383479	42.76274343	101.3952886	32.16290767	25.44106758	170.1583749	33	34.53476793
PDGFRA	33	33	33	33	33	33	33	33	44.87053038	33	33
PDHA1	290.9722532	196.215194	268.7415058	427.4532655	380.5884165	335.2586156	445.2023536	411.2972592	455.1153796	664.7187454	544.3337231
PDK1	486.5838519	558.0432124	528.6718146	694.4995404	521.7054698	158.6345644	199.1843229	278.4383508	229.5972593	180.6300939	217.8979405
PDK3	249.4047884	174.6135213	202.6575289	301.995284	398.7625824	524.1482258	562.5687535	411.2972592	477.8420118	485.6942524	604.3584388
PDPN	33	33	33	33	33	33	33	33	33	33	33
PECAM1	33	33	33	52.87157792	33	33	33	33	21.56116395	33	33
PFKFB4	33	33	33	33	37.4174005	37.61438126	42.8838769	26.85446023	66.43169433	29.70361543	48.51312638
PFKL	1100.315243	1099.88517	1229.161969	1634.538273	2183.038052	1122.70751	1780.245153	1336.59831	952.1876187	1200.186624	1213.650416
PFKP	511.0353018	450.0348487	634.4061775	989.3257969	881.9815832	1082.640017	1278.616645	1160.866491	952.7703529	1603.192433	1415.925485
PGAM1	1894.987363	1530.118486	1343.707529	3008.303171	4115.914055	6462.314241	6068.632842	5859.454769	5503.341414	10296.71815	8427.305632
PGK1	2633.421148	2131.365043	1771.050579	3340.766822	4882.436231	9713.505108	6352.456396	5835.427094	12251.403	9700.23744	9129.512579
PHGDH	33	33	33	102.1586421	343.171016	110.390032	286.0805998	119.6672438	114.2158955	83.49124338	151.2951738
PIDD1	105.1412343	79.20613337	33	146.0689356	79.11107534	40.88519702	76.17530764	55.59344397	55.35974527	27.29521418	32.89025517
PIK3C3	545.2673315	480.6372184	612.3781852	793.0736687	605.0928195	439.9247199	340.2497075	396.221071	525.0434789	433.5122252	365.9040888
PIK3R1	1904.767943	2246.573965	3484.828378	382.6468436	378.4502793	565.0334228	322.7575998	286.4475757	544.8564403	232.0093205	301.7680912
PIK3R2	110.0315243	81.00627276	33	103.950899	12.9488874	78.49957828	147.2722614	119.6672438	56.5252136	117.2088609	94.55948362
PIK3R3	33	104.4080849	154.1959459	81.54768797	96.21617271	140.6450777	150.0935691	149.8196202	63.51802352	83.49124338	110.1823548
PKM	1124.766693	1006.277922	696.0845559	3684.880142	4905.95574	5599.636584	8580.160948	7706.287823	8514.911557	11166.9538	10543.79355
PLA2G4B	33	33	33	33	33	33	33	33	33	33	33
PLCB2	557.4930565	903.6699762	682.8677605	809.2039806	1011.338882	374.5084047	384.2621074	465.4773106	518.0506689	313.8949631	313.2796805
PLCB3	33	33	33	33	33	33	33	33	16.48958084	26.22303723	33
PLCG1	2075.928092	2262.775219	2564.058301	2460.768694	1280.744166	786.6311907	821.5647995	955.453427	789.6047878	824.4760284	814.8560719
PML	493.9192869	622.8482306	819.4413126	842.3607329	708.7924723	482.4453248	555.797615	480.0823679	516.3024664	370.8937927	393.8608057
PNOC	33	61.20473942	33	33	33	33	33	33	33	33	33
PPARA	156.489279	149.4115698	167.4127413	215.0708254	287.5794495	258.3944452	212.1623383	187.0389598	283.7915363	166.9824868	172.6738397
PPARD	107.5863793	90.00696974	33	66.3135045	62.00597797	68.68713099	37.80552305	32.97916168	83.91371915	51.3792267	41.93507534
PPARGC1A	33	33	33	33	33	33	33	33	33	33	33
PPAT	259.1853684	347.4269032	330.4198841	299.3068987	411.5914055	532.3252652	650.0292919	503.6389119	561.1729968	792.3640117	629.8483866
PPIA	9135.061662	8599.265889	7322.104632	11877.28633	16370.64725	18152.20977	36822.57945	27253.03695	15641.16761	28925.70183	25508.0374
PPP2R5D	237.1790635	228.6177031	33	414.0113389	438.3181201	495.7319106	603.1955842	596.4516955	478.424746	486.4970528	530.3553647
PPP3CA	224.9533386	178.2138001	171.8183397	196.2521282	220.2281286	398.7687072	200.8771076	223.3160377	516.3024664	215.1505118	243.3878883
PPT2	33	70.20543639	33	60.93673387	36.34833191	48.24453248	46.83370766	39.10386313	53.02880863	69.04083587	46.86861362
PRDM1	872.9167595	891.0690004	1096.994015	1758.203998	1982.053158	1706.548124	1184.384968	1329.531347	1244.137433	1624.065244	1782.65183
PRF1	171.1601489	334.8259274	163.0071428	1470.546769	837.0807026	614.9133632	226.2688762	1295.609923	3356.548766	1349.507501	858.43566
PRICKLE3	105.1412343	124.2096182	33	99.47025676	112.2522015	148.8821172	89.15332308	102.7065321	176.5684507	71.44923712	60.84697207
PRKAB2	193.1664538	201.6156122	193.846332	280.4882015	214.8827857	352.4303983	230.7829691	159.7133687	411.4103175	220.7701147	204.7418384
PRKCB	672.4148707	392.4303881	299.5806949	914.9471365	780.4200675	534.778377	1787.016291	737.319829	304.1872319	939.276488	956.2841691
PRKCD	256.7402234	261.0202122	352.4478764	298.4107703	313.2370956	275.5662279	480.1865689	379.2603593	369.4534579	368.4853915	386.4604983
PROCR	33	33	33	33	33	33	33	33	33	33	33
PSAT1	85.58007446	106.2082243	180.6295367	227.6166236	245.8857747	148.0044132	89.15332302	120.1383747	93.23746572	191.0664993	115.1158931
PSMA2	1176.114738	961.2744368	704.8957528	1985.820621	2047.266342	2992.796422	3916.539336	3260.696828	2734.771417	5231.850318	3832.536984
PSMA3	701.7566105	595.8461397	480.2102316	989.3257969	1090.449957	1549.548967	1832.157214	1658.851832	1673.029776	2686.170196	2206.113866
PSMA6	493.9192869	430.2333153	383.2870656	698.9801826	916.1917779	1067.103642	1403.882707	1208.921841	1005.216427	1882.566978	1579.554505
PSMB10	672.4148707	687.6532488	511.0494208	1120.160549	1135.350838	868.4015847	1501.499953	1250.852489	819.9069642	862.207648	826.3676612
PSPH	33	33	33	114.7044402	95.14710412	44.97371672	57.55467689	42.4017793	64.10075769	65.8296342	37.82379345
PTCD1	33	84.60655155	33	111.1199265	96.21617271	91.58284132	90.2818461	95.16843799	89.1583266	89.1108463	78.11435603
PTGDR2	85.58007446	108.0083637	33	101.2625136	42.76274343	51.51534824	33	37.21933961	33	33	33
PTGER2	212.7276136	345.6267638	242.307915	962.4419437	164.6365622	551.9501598	33	62.66040719	972.0005802	46.56242419	33
PTGER4	1359.500611	1355.504964	3348.254826	327.0868803	289.7175867	345.0710628	445.2023536	319.4267374	883.4249877	579.6219012	386.4604983
PTGS1	33	72.00557579	176.2239382	33	40.62460625	56.42157189	33	33	41.37412541	93.9276488	37.82379345

PTPRC	12499.58116	11834.11638	16970.36525	14650.80385	13710.80461	7187.617636	6510.449627	7262.482533	9341.811331	6794.09993	7197.210088
PYCR1	33	33	33	79.75543109	89.80176119	47.42682854	80.12513841	71.14076305	59.4388844	142.8984742	83.04789431
PYCR2	442.5712422	446.4345699	308.3918918	1381.830053	1101.140643	1413.810113	1690.527568	1376.173304	1369.425278	1691.500479	1423.325793
PYCR3	33	33	33	42.11803664	41.69367484	41.70290096	41.75535382	41.93064842	47.78420118	66.63243462	39.46830621
RAC2	684.6405957	840.6650973	268.7415058	1354.050072	1565.116409	1906.885589	2786.323475	2686.388284	1511.029679	2239.813164	2146.08915
RAE1	467.022692	352.8273214	572.7277991	454.3371187	627.5432598	675.4234548	552.9763073	1044.497163	545.4391745	791.5612113	939.0167852
RAG2	33	106.2082243	33	31.36449537	39.55553767	33	33	33	33	33	33
RAI1	117.3669593	100.8078061	33	102.1586421	143.2551905	125.1087029	82.38218456	98.93748504	141.0216669	128.4480667	117.5826622
RARB	33	95.40738792	33	33	33	33	33	33	33	33	33
RARG	198.0567437	95.40738792	33	155.03022	129.3572989	212.6030245	56.99041535	93.28391447	427.726874	125.2368651	78.11435603
RBX1	1132.102128	865.8670489	528.6718146	1502.807393	1540.527832	2094.139791	2551.590675	2049.890464	1983.627083	2424.45726	2153.489457
RDH10	132.0378292	135.0104546	268.7415058	2587.122804	2165.932955	2564.319557	1788.709076	2816.420407	4225.988134	1394.464325	2382.076731
RDH14	273.8562383	216.0167274	163.0071428	215.0708254	209.5374428	230.5925112	332.3500459	271.3713875	175.4029824	269.7409401	251.6104521
RDH5	33	81.00627276	33	60.93673387	56.66063504	34.3435655	19.1848923	16.48958084	26.22303723	33	33
RELA	919.3745142	732.6567337	762.1685327	368.3087885	505.669441	609.1894356	416.4250151	473.4865355	496.489505	387.7526015	329.7248081
RIMKLA	33	73.80571518	33	33	33	33	33	33	22.14389811	33	33
RNASEL	158.934424	180.0139395	33	306.4759262	198.8467569	258.3944452	155.171923	141.3392643	243.000145	143.7012747	120.8716878
RORA	2936.619126	2064.759886	2978.184556	1280.56754	1093.657163	593.6530607	736.9255688	896.0909359	442.295228	766.6743983	611.7587462
RORC	193.1664538	109.8085031	33	33	33	33	33	33	33	30.50641585	33
RPL23	23588.31367	15555.00451	17397.7083	19470.1826	22795.74945	31695.02243	25479.79401	23007.20545	21051.27156	31977.94901	23990.15212
RPL3	4073.611544	2820.818432	5242.662161	1825.413631	1674.161405	3261.003314	3443.688167	1985.345533	2066.375334	2221.348754	1243.251646
RPTOR	102.6960893	106.2082243	33	172.0566603	367.7595935	439.9247199	401.7542151	399.5189872	305.3527002	299.4445556	296.0122966
RUNX3	3320.506889	3058.436832	4586.227992	784.1123843	1056.239763	1720.449091	1421.374814	1191.961129	2809.361389	1920.298598	1770.317985
RUNX3_2	2166.398456	2187.169365	3180.842084	425.6610086	547.3631159	681.1473823	528.1487997	483.3802841	1091.461083	594.8751091	490.8870584
S100A12	33	33	33	33	33	33	33	33	33	33	33
SCD	154.044134	147.6114304	295.1750965	882.6865127	1523.422735	289.4671949	2578.675229	862.6406434	1119.432323	1928.326602	2614.775286
SDHB	706.6469005	567.0439093	731.3293435	592.3408983	649.9937001	957.5313142	1129.087338	1006.806693	823.4033692	1177.708212	925.0384267
SEC22B	405.8940674	372.6288547	440.5598455	511.6893388	505.669441	682.7827902	466.644292	436.2671959	577.4895533	464.8214415	380.7047036
SELL	1970.786857	1958.551661	656.4341698	6079.335332	2542.245097	363.8782535	359.9988613	2023.978265	30.30217636	722.5203754	417.7062407
SELPLG	85.58007446	120.6093394	33	396.0887701	243.7476375	198.7020575	97.05298455	135.2145629	312.3455102	56.1960292	93.73722724
SERINC1	4239.881403	3758.691056	4705.17915	2224.190786	2094.305359	3789.24006	2336.042768	2039.525584	2477.785652	1603.995233	1713.582294
SERINC3	2007.464032	1450.912352	1127.833204	1579.874438	1471.038374	2448.205598	1494.164553	1450.611983	1937.00835	1458.688358	1395.369076
SERINC4	33	33	33	33	33	33	33	33	33	33	33
SERPINB9	1794.736419	1180.891443	1378.952316	378.1662014	399.831651	734.2981385	62.63303073	175.7318187	1209.756118	481.6802503	289.4342455
SGK3	242.0693535	178.2138001	198.2519305	68.10576138	55.59156645	104.6661044	59.81172304	28.73898375	50.69787199	39.33722044	28.77897328
SGO2	88.02521944	129.6100364	33	165.7837613	275.8196951	187.2542024	316.5507229	378.3180976	370.6189263	495.3278574	428.3955736
SH2D1A	410.7843574	352.8273214	339.231081	681.0576138	936.504081	1400.72685	1491.343245	1060.986744	779.6983071	789.9556104	971.084784
SH3BP2	134.4829741	178.2138001	193.846332	407.7384399	288.6485181	237.1341427	182.8207383	195.9904466	427.1441398	270.5437406	203.0973257
SHMT1	33	77.40599397	33	97.67799888	135.7717104	144.7335974	214.4193845	154.0597981	153.8418184	169.390888	170.2070705
SHMT2	660.1891458	514.8398669	303.9862934	797.5543199	771.8675188	620.6372908	776.988138	778.7793465	683.5471706	1111.075777	947.239349
SIGLEC10	33	75.60585458	180.6295367	33	41.69367484	27.80193397	33	20.72975877	33.21584716	33	33
SIGLEC5	33	61.20473942	33	33.15675225	33	33	33	33	33	33	33
SIK1	1865.645623	1481.514722	2929.722973	166.6798897	151.8077392	33	21.44193845	44.75743371	21.56116395	45.75962378	58.38020293
SIRPA	33	79.20613337	33	33	33	33	33	33	33	33	33
SIRPG	249.4047884	354.6274608	211.4687258	794.8659256	906.5701606	217.5092481	709.8410149	649.6894851	251.1584233	284.1913477	441.5516757
SKP1	3146.901595	2449.989716	3572.940347	2851.480694	3556.791184	6370.7314	4750.517889	3803.439603	4732.966854	5488.746452	4366.181374
SLAMF6	290.9722532	327.6253698	33	714.2143661	745.1408042	230.5925112	568.2113689	410.8261284	305.9354344	215.1505118	343.7031666
SLAMF7	33	33	33	62.72899075	33	119.3847753	33	125.3208144	59.4388844	175.0104909	56.73569017
SLC25A20	200.5018887	226.8175637	180.6295367	832.5033201	747.2789414	653.3454484	776.988138	923.416527	615.3672738	686.3943566	599.4249005
SLC25A6	3105.33413	2496.79334	2105.876061	3580.929243	4149.055181	5242.299962	6072.018411	4328.750536	2425.339577	5793.81061	4707.417772
SLC27A3	33	77.40599397	33	65.41737606	81.24921251	62.96320341	22.00619999	48.05534988	106.0576173	40.14002086	54.26892103
SLC2A1	33	70.20543639	33	68.10576138	81.24921251	86.67661768	57.55467689	76.79433363	124.1223762	77.06884004	77.29209966
SLC2A11	88.02521944	109.8085031	33	195.3559998	122.9428874	90.76513738	81.25366149	53.70892045	78.08637754	77.06884004	46.86861362
SLC2A2	33	124.2096182	215.8743243	30.46836693	38.48646908	33.52586156	33	16.96071172	22.14389811	33	33
SLC3A2	1413.293801	1000.877503	1304.057143	895.2323108	932.2278067	1258.446364	572.1611996	776.894823	742.4033208	1286.889069	1027.820474
SLC7A5	1110.095823	729.0564549	991.2596524	838.7762191	1132.143632	1494.762803	872.9125994	1549.078337	1036.684072	3368.55055	1985.749156
SMAD2	586.8347963	475.2368002	334.8254826	776.9433568	960.0235899	1503.757546	1293.287445	1103.388524	1444.597985	1104.653374	1102.645805
SMAD3	792.226975	657.0580791	594.7557914	484.8043586	439.3871887	503.7056273	266.8957075	190.8080669	641.0075769	337.1761752	217.8979405
SMAD5	33	153.0118486	215.8743243	112.0160549	187.0870025	401.4926347	288.337646	160.6556305	367.1225213	171.7992893	198.1637874
SMARCA4	520.8158817	522.0404245	502.2382239	927.4929346	892.672269	626.3612183	791.0946764	708.5808452	1114.187715	1000.28932	895.4371971
SMC2	193.1664538	237.6184001	273.1471042	540.3654489	667.0987974	820.9747562	1390.34043	1243.785526	1518.022489	1810.314941	1586.132556
SMURF1	410.7843574	325.8252304	414.1262548	143.3805503	146.4623962	230.5925112	227.3973999	147.4639658	219.6907786	117.2088609	132.3832771
SOC52	144.2635541	253.8196547	308.3918918	4443.004802	1672.023268	3568.459996	1781.937937	4909.183781	5968.363275	3919.271636	3201.044085
SOC54	418.1197923	397.8308062	290.769498	525.1312654	540.9487043	526.6013376	633.1014457	645.920438	562.3384651	590.0583066	561.6011071
SOC55	317.868848	318.6246729	462.5878378	265.254018	261.9218035	276.3839319	271.4097998	213.89342	300.690827	207.925308	209.6753767
SOS2	220.0630486	264.620491	484.61583	151.4457062	187.0870025	538.8668967	146.7079999	200.7017554	450.4535063	259.3045347	259.8330159
SP100	1068.582358	909.0703943	1136.644401	1166.759228	1034.858391	716.3086518	750.4678457	727.8972114	683.5471706	584.4387037	491.7093148
SPIB	33	33	33	33	33	33	33	33	21.56116395	33	33
SRC	33	33	33	33	38.48646908	71.14024281	33	28.26785287	104.8921489	103.5612538	52.62440828
SRR	33	33	33	68.10576138	69.48945807	85.85891374	93.10315379	63.60266895	89.74106076	69.84363629	67.4250231
STAM	2415.803245	2014.355983	2308.53359	1024.274806	469.3211091	1003.322735	284.9520767	554.992178	1156.727309	918.4036772	531.9998774
STAT1	1381.506916	1582.322528	942.7980694	18633.19864	11567.3221	7702.771119	17166.52877	12758.69539	6259.730355	15840.05503	13424.97991
STAT2											

STAT6	919.3745142	840.6650973	656.4341698	1220.526934	860.6002115	339.3471353	695.7344765	562.0591412	390.4318877	598.0863107	563.2456198
STK11	271.4110933	275.4213274	202.6575289	301.995284	373.1049364	242.0403664	271.4097998	255.8240685	316.4246493	244.8541272	251.6104521
TAOK2	185.8310188	239.4185395	171.8183397	296.6185134	236.2641574	174.9886432	150.6578307	164.4246775	190.5540706	119.6172621	88.80368897
TBX21	166.2698589	169.2131031	356.8534749	98.57412832	320.7205757	355.7012141	297.9300921	282.2073978	587.9787682	377.316196	467.0416234
TCF7	916.9293692	588.6455821	731.3293435	212.3824401	52.3843607	33	33	33	31.46764468	33	33
TCL1A	33	66.60515761	33	32.26062381	37.4174005	33	33	33	33	33	33
TERT	33	33	33	33	33	33	33	24.49880582	33	33	33
TET2	633.292551	466.2361032	740.1405404	937.3503475	1059.446968	886.3910714	872.3483379	738.7332216	810.5832176	718.5063733	735.0972031
TFAM	381.4426176	343.8266244	449.3710424	311.8526969	326.0659186	353.2481023	474.5439535	469.2463576	352.5541673	566.7770945	473.6196745
TFB2M	315.423703	295.2228607	568.3222007	270.6307887	364.5523877	293.5557146	264.0743998	293.9856698	295.4462195	484.8914519	387.2827547
TFDP1	166.2698589	199.8154728	233.4967181	432.8300362	600.8165451	693.4129415	1368.33423	1341.780749	686.4608414	1584.728023	1290.942516
TFRC	2039.250917	2023.35668	3414.338803	3288.791372	3216.827374	3432.721142	5199.670074	3543.375357	4880.398596	9440.130105	7886.260934
TGFB1	1770.284969	1670.529358	2837.205405	862.0755586	813.5611937	937.9064196	709.8410149	751.9248863	610.7054005	596.4807099	514.7324934
TGFBR1	325.2042829	322.2249517	396.5038609	2214.333373	1457.140482	2353.35194	1709.71246	2298.647569	4751.614347	1818.342945	2200.358071
TGFBR2	623.511971	370.8287153	572.7277991	319.9178528	341.0328788	416.2113057	291.7232152	174.7895569	281.4605997	215.1505118	294.3677838
TGIF2	1254.359377	1074.683219	1008.882046	666.7195588	762.2459016	825.8809798	823.8218456	839.0840993	490.6621634	769.0827996	745.786536
TICAM1	415.6746474	370.8287153	400.9094594	359.3475041	476.8045892	446.4663515	568.7756304	472.5442738	388.1009511	408.6254123	383.1714728
TIGIT	1075.863793	1159.28977	356.8534749	2096.940548	1577.945232	2920.020771	2707.891121	2864.475757	3448.620763	2616.326559	2146.911406
TIMM17A	625.957116	520.2402851	612.3781852	619.2247515	677.7894833	771.0948158	704.7626611	752.8671481	720.2594227	1114.286979	846.1018143
TIMM23	425.4552273	392.4303881	462.5878378	510.7932104	563.3991446	873.3078083	943.4452917	805.1626759	703.9428662	1340.676697	1033.576269
TIMP1	163.824714	169.2131031	167.4127413	300.2030271	492.840618	1382.737363	45.70518459	89.9859983	941.6984038	87.50524547	69.89179224
TKT	545.2673315	525.6407033	572.7277991	1078.938641	1010.269813	1090.817056	1811.843799	1222.113506	1034.353135	1970.072224	1312.321181
TLR2	100.2509444	90.00696974	211.4687258	33	33	33	19.1848923	16.01844996	33	33	33
TLR4	83.13492947	95.40738792	33	33	33	33	33	33	33	33	33
TLR9	33	63.00487882	33	33	33	33	33	33	33	33	33
TNF	1234.798217	685.8531094	3550.912355	1919.507117	1381.236613	870.8546965	697.4272611	1367.221817	2742.929695	2137.05471	1561.464864
TNFRSF10B	234.7339185	237.6184001	317.2030888	510.7932104	255.507392	228.1393994	322.1933383	266.6600787	269.8059164	211.1365097	210.4976331
TNFRSF11A	33	68.405297	33	569.9376874	844.5641827	1244.545397	1150.529276	833.4305287	971.417846	924.8260805	860.9024291
TNFRSF17	33	84.60655155	33	33	33	33	33	33	33	33	33
TNFRSF18	401.0037775	424.8328972	356.8534749	868.3484576	1132.143632	2301.836592	692.3489072	1209.392972	3267.973174	1353.521503	1022.064679
TNFRSF4	161.379569	174.6135213	33	259.8772474	310.0298898	536.4137849	265.2029229	358.5306005	735.4105109	512.1866661	397.9720876
TNFRSF6B	151.598989	189.0146364	277.5527027	105.7431558	90.87082978	67.05172311	52.47632304	41.93064842	108.9712881	58.60443045	53.44666466
TNFRSF9	555.0479115	522.0404245	414.1262548	787.6968981	1336.335732	1415.445521	579.4965996	1955.193157	1535.504514	1502.842381	2225.848019
TNFSF13B	33	106.2082243	33	561.8725314	190.2942082	176.6240511	51.34779997	93.28391447	108.9712881	142.0956738	101.1375347
TNFSF14_iso1	97.80579938	201.6156122	207.0631274	216.8630823	80.18014392	301.732754	82.38218456	80.56338068	956.2667578	719.3091737	156.2287121
TNFSF14_iso2	33	33	33	33	33	54.78616401	25.39176921	23.08541318	111.8849589	124.4340647	46.86861362
TNFSF9	117.3669593	95.40738792	202.6575289	47.49480728	85.52548685	94.03595315	64.32581534	54.65118221	295.4462195	53.78762795	92.09271448
TOLLIP	425.4552273	379.8294123	418.5318532	433.7261646	415.8676798	671.3349351	494.8573689	406.1148195	480.7556826	402.203009	418.5284971
TOMM6	317.868848	286.2221638	189.4407336	439.1029352	505.669441	778.4541513	798.9943379	652.5162704	564.0866676	871.0384526	804.166739
TOX	356.9911677	552.6427942	281.9583011	137.1076512	608.3000252	346.7064707	1667.392845	921.5320035	197.5468805	652.6767391	995.7524753
TP53	432.7906623	466.2361032	334.8254826	988.4296685	1157.801278	1055.655787	2279.052352	1655.082785	1180.61941	1978.903028	1960.259208
TPR	523.2610267	745.2577094	462.5878378	683.7459991	734.4501183	542.9554164	721.1262457	571.9528897	913.1444299	667.1271466	693.1621278
TPSAB1/B2	83.13492947	149.4115698	233.4967181	48.39093572	44.9008806	35.16126944	33	29.21011463	33	33	33
TRAC	7817.128515	6862.131373	3559.723552	16995.27597	17034.40849	14829.92174	21173.56406	11937.89202	15995.79831	16512.55261	
TRAF3	1413.293801	1114.286285	1405.385907	1021.586421	1116.107603	1213.472648	1193.413153	1002.566515	991.8135416	949.7128934	913.5268374
TRAF5	256.7402234	295.2228607	207.0631274	750.9556321	547.3631159	228.1393994	248.2750768	313.302036	344.395889	358.048986	399.6166003
TRAF6	405.8940674	428.4331759	427.3430501	353.9707335	312.168027	376.1438126	349.2778921	207.7687186	419.5685958	264.9241376	268.877836
TRAT1	1039.186618	1029.679734	704.8957528	1367.491998	682.0657576	1309.961713	140.501123	469.2463576	1487.720312	399.7946077	496.6428531
TRAT1_2	1256.804522	1321.302316	903.1476833	1455.312585	685.2729634	1311.59712	154.6076614	462.6505253	1476.648363	329.9509714	407.8391641
TRAV10	190.7213088	158.4122667	207.0631274	358.4513757	73.76573241	91.58284132	91.97463071	33	20.97842979	235.2205222	32.06799879
TRAV11	33	33	33	33	33	33	33	33	33	33	33
TRAV1-1	156.489279	135.0104546	189.4407336	188.1869722	51.31529211	91.58284132	33	33	53.61154279	130.856468	33
TRAV1-2	195.6115988	169.2131031	220.2799227	233.8895226	99.42337847	62.96320341	33	33	27.38850556	232.0093205	73.18081776
TRAV12-1	354.5460227	261.0202122	193.846332	720.4872652	187.0870025	502.0702194	11264.91735	33	65.26622601	510.5810653	97.02625276
TRAV12-2	518.3707367	399.6309456	330.4198841	890.7516686	277.9578323	336.0763195	19.1848923	17.4318426	134.6115911	1209.820229	357.681525
TRAV12-3	467.022692	354.6274608	215.8743243	705.2530817	78.04200675	499.6171076	33	33	414.9067225	635.0151299	77.29209966
TRAV13-1	963.3871239	795.6616125	541.88861	1683.825337	3415.674131	250.0746326	33	236.9788332	90.32379492	1836.807354	1795.807932
TRAV13-2	352.1008778	343.8266244	185.0351351	551.1189901	463.9757662	698.0719382	1187.770538	265.717817	178.8993874	742.5903858	1682.336552
TRAV14	423.0100823	462.6358244	365.6646718	774.2549715	867.014623	269.0245964	33	416.4796989	261.064904	470.4410444	1019.59791
TRAV16	300.7528331	291.6225819	396.5038609	758.1246596	202.0539627	115.2962556	33	66.90058512	49.53240367	546.7070841	205.5640948
TRAV17	684.6405957	678.6525518	484.61583	1541.340916	1807.794978	632.9028499	33	2841.861475	226.1008544	1349.507501	5232.839598
TRAV18	33	97.20752732	154.1959459	95.885743	50.24622353	60.51009159	33	33	33	44.15402294	37.00153707
TRAV19	550.1576215	430.2333153	374.4758687	823.5420357	203.1230313	211.7853206	33	45.22856459	152.6763501	746.6043879	453.063265
TRAV2	1276.365682	995.4770853	894.3364864	1021.586421	1457.140482	886.3910714	33	14898.10072	770.3745605	1397.675526	4001.099542
TRAV20	193.1664538	165.6128243	167.4127413	290.3456143	100.4924471	163.5407881	33	33	51.86334031	195.0805014	100.3152783
TRAV21	166.2698589	160.2124061	33	393.4003848	103.6996528	91.58284132	33	33	40.20865709	382.935799	69.89179224
TRAV22	224.9533386	172.8133819	167.4127413	284.9688437	249.0929805	280.4724516	33	16.01844996	53.02880863	151.7292788	70.71404862
TRAV23	320.313993	261.0202122	163.0071428	667.6156872	496.0478237	657.4339681	33	74.9098101	290.7843462	834.1096334	379.8824472
TRAV24	136.9281191	135.0104546	33	156.8224769	33	125.9264068	33	33	19.81296147	230.4037197	33
TRAV25	288.5271082	279.0216062	202.6575289	531.4041645	59.8678408	89.94743344	33	33	23.89210059	508.172664	41.93507534
TRAV26-1	616.1765361	626.4485094	418.5318532	891.647797	506.7385096	268.2068924	33	110.7157571	25.05756891	693.6195604	333.83609
TRAV26-2</											

TRAV35	251.8499334	205.215891	33	275.1114308	95.14710412	2297.748073	33	33	46.0359987	248.8681293	33
TRAV36	132.0378292	117.0090607	33	261.6695043	87.66362402	298.4619382	33	33	62.93528936	262.5157364	33.71251155
TRAV38-1	249.4047884	316.8245335	176.2239382	749.1633752	440.4562573	570.7573504	33	33	58.85615024	761.8575958	309.990655
TRAV38-2	97.80579938	127.809897	33	258.0849905	64.14411514	226.5039915	33	33	33	359.6545869	35.35702431
TRAV39	210.2824687	165.6128243	33	310.06044	280.0959694	176.6240511	35.5484769	32.97916168	1007.547364	317.1061648	354.3924995
TRAV4	405.8940674	358.2277396	343.6366795	572.6260727	425.4892971	290.2848988	33	6627.398105	815.2450909	437.5262273	1383.03523
TRAV40	33	33	33	48.39093572	33	33	33	33	33	101.955653	33
TRAV41	244.5144984	273.621188	193.846332	422.0764949	260.8527349	1323.862679	33	33	428.3096082	310.6837614	74.00307414
TRAV5	33	106.2082243	33	183.70633	110.1140643	110.390032	33	33	29.7194422	129.2508672	52.62440828
TRAV6	310.533413	282.621885	202.6575289	605.7882849	298.2701354	291.1260028	37.80552305	28.26785287	97.31660485	557.9462899	299.3013221
TRAV7	33	90.00696974	33	72.58640358	41.69367484	33	33	33	33	33	33
TRAV8-1	290.9722532	273.621188	281.9583011	426.5571371	145.3933276	170.0824196	33	33	40.79139125	221.5729151	98.67076552
TRAV8-2	1841.194173	1623.725734	1237.973166	2282.439135	2753.920677	1509.481474	184.513523	2681.205845	266.3095115	1713.17609	2660.821643
TRAV8-3	437.6809522	550.8426548	436.154247	618.3286231	317.5133699	286.1963791	50.21927689	57.00683662	73.42450426	197.4889026	120.0494314
TRAV8-6	459.6872571	408.6316426	326.0142857	906.8819805	343.171016	506.1587391	173.7925537	25.91219846	5908.92439	1046.048943	235.1653245
TRAV9-1	33	66.60515761	33	33	33	33	33	33	33	33	33
TRAV9-2	427.9003723	280.8217456	246.7135135	881.7903842	925.8133952	4165.383872	33	302.9371566	192.8850072	915.9952759	1136.358316
TRBC1/2	13673.25075	14451.51906	7427.838995	27380.30833	23083.3289	20917.6845	28710.19132	17089.33045	13837.60538	8885.395017	9489.660874
TRBV10-1	33	33	33	33	33	33	164.7643691	33	33	33	33
TRBV10-2	33	140.4108728	33	93.19735768	72.69666382	174.9886432	33	33	34.96404965	36.92881919	33
TRBV10-3	376.5523276	509.4394487	431.7486486	837.8800907	163.5674936	672.9703429	43710.52005	18.84523525	178.8993874	211.1365097	56.73569017
TRBV11-1	88.02521944	124.2096182	33	224.9282383	237.333226	33	33	33	33	85.09684421	58.38020293
TRBV11-2	356.9911677	453.6351275	396.5038609	970.5070997	888.3959947	2493.179314	33	49.46874252	776.2019022	288.2053497	158.6954812
TRBV11-3	33	84.60655155	33	60.93673387	112.2522015	88.31202556	33	33	72.8417701	35.32321835	55.09117741
TRBV12-3	259.1853684	262.8203516	149.7903475	122.7695962	275.8196951	453.8256869	33	24.02767494	94.40293405	203.9113059	119.227175
TRBV12-5	90.47036443	33	33	82.44381641	33	33	33	33	33	27.29521418	33
TRBV13	202.9470337	261.0202122	264.3359073	258.0849905	119.7356816	35.97897338	314.8579383	33	48.94966951	81.88564255	72.35856138
TRBV14	327.6494279	138.6107334	273.1471042	260.7733758	1951.050169	66.23401917	33	799.5091053	28.55397388	231.2065201	964.5067329
TRBV15	224.9533386	187.2144971	211.4687258	516.169981	188.1560711	276.3839319	33	31.09463816	183.5612606	232.0093205	113.4713803
TRBV16	33	61.20473942	33	32.26062381	33	31.07274973	33	33	33	33	33
TRBV18	356.9911677	424.8328972	233.4967181	851.3220173	1854.833996	453.007983	33	2499.349324	156.1727551	289.8109506	966.9735021
TRBV19	413.2295024	509.4394487	295.1750965	1292.217209	1415.446807	1251.087029	185.0777845	265.717817	3214.944365	403.0058094	354.3924995
TRBV2	349.6557328	365.4282971	273.1471042	1078.042512	2115.686731	490.6223642	33	22.61428229	262.2303723	357.2461856	800.0554571
TRBV20-1	1132.102128	824.4638428	766.5741312	2420.442914	1060.516037	5571.83465	33	64.54493072	571.6622117	1059.696551	541.866954
TRBV24-1	122.2572492	253.8196547	246.7135135	214.174697	192.4323454	182.3479787	33	33	48.36693534	92.32204797	64.95825397
TRBV25-1	141.8184091	203.4157516	185.0351351	177.433431	62.00597797	344.2533589	33	33	317.0073835	76.26603963	34.53476793
TRBV27	183.3858738	270.0209092	180.6295367	782.3201275	463.9757662	697.5014612	33	238.3922259	89.1583266	218.3617135	254.0772212
TRBV28	667.5245808	955.8740186	422.9374517	1892.623264	5145.427103	1504.57525	33	8389.898731	157.9209576	1165.666206	5145.680422
TRBV29-1	679.7503057	757.8586852	493.427027	1142.56376	1007.062608	238.7695506	33	16.96071172	27.38850556	301.0501564	104.4265602
TRBV30	195.6115988	117.0090607	33	454.3371187	553.7775274	121.8378871	63.7615538	741.088876	32.633113	141.2928734	223.6537352
TRBV3-1	246.9596434	279.0216062	198.2519305	840.568476	93.00896695	123.473295	33	33	35.54678381	510.5810653	36.17928069
TRBV4-1	176.0504389	239.4185395	229.0911197	569.9376874	73.76573241	84.22350586	33	33	32.05037884	335.5705744	43.5795881
TRBV4-2	249.4047884	230.4178425	33	1078.042512	477.8736578	282.1078594	33	40.20865709	642.2403337	357.681525	357.681525
TRBV4-3	180.9407289	250.2193759	211.4687258	1081.627026	157.1530821	559.3094952	33	33	917.8063032	438.3290277	51.8021519
TRBV5-1	264.0756583	394.2305274	312.7974903	891.647797	297.2010668	480.809917	33	18.37410436	1572.216766	261.712936	111.8268676
TRBV5-4	33	75.60585458	33	134.4192659	115.4594073	49.87994036	33	18.37410436	25.05756891	94.73044922	45.22410086
TRBV5-5	92.91550941	111.6086425	33	157.7186053	81.24921251	45.79142066	33	33	33	67.43523504	53.44666466
TRBV5-6	129.5926842	90.00696974	33	415.8035958	175.327248	75.22876252	33	55.59344397	22.72663227	143.7012747	369.1931143
TRBV5-8	33	33	33	34.94900913	56.66063504	33	33	33	22.14389811	33	32.89025517
TRBV6-1	166.2698589	180.0139395	33	905.9858521	256.5764606	191.3427221	33	33	65.26622601	572.3966974	53.44666466
TRBV6-2	349.6557328	390.6302487	233.4967181	862.0755586	383.7956222	349.1595825	33	24.9699367	81.58278251	565.9742941	143.07261
TRBV6-4	92.91550941	115.2089213	33	75.2747889	45.96994918	29.4373185	33	33	33	41.74562169	33
TRBV6-5	709.0920455	781.2604973	361.2590733	2247.490126	1224.083531	764.5531843	49.65501535	7006.187333	90.90652908	1117.498181	954.6396564
TRBV6-6	246.9596434	248.4192365	33	672.9924579	1035.927459	152.9106369	33	7417.013462	19.81296147	329.9509714	1137.180573
TRBV6-8	33	61.20473942	33	33	33	33	33	33	33	33	33
TRBV6-9	242.0693535	316.8245335	215.8743243	944.519375	458.6304232	388.4093717	42.31961536	1345.549797	111.8849589	570.7910966	335.4806028
TRBV7-2	596.6153762	505.8391699	317.2030888	1940.118071	305.7536155	1315.68564	161.9430614	33	213.863437	940.0792884	126.6274824
TRBV7-3	254.2950784	185.4143577	224.6855212	671.200201	537.7414986	100.5775847	24.26324614	21.67202053	20.97842979	476.8634478	231.876299
TRBV7-4	166.2698589	126.0097576	154.1959459	83.33994485	68.42038948	33	31977.26563	95.16843799	33	33	33
TRBV7-6	149.1538441	135.0104546	33	268.8385318	277.9578323	369.6021811	1397.111568	28.26785287	32.05037884	105.9696551	158.6954812
TRBV7-7	33	33	33	69.00188982	58.79877221	36.79667732	33	24.02767494	33	33	33
TRBV7-8	616.1765361	442.8342911	444.9654439	1489.365466	411.5914055	2131.754173	1643.129599	32.5080308	161.4173625	600.494712	201.4528129
TRBV7-9	496.3644318	401.431085	202.6575289	1554.782842	620.0597797	248.5819979	33	32.5080308	22.14389811	622.1703233	337.1251155
TRBV9	601.5056662	298.8231395	308.3918918	1190.058567	567.675419	5370.679481	33	421.6621386	200.4605513	953.7268955	1272.030619
TRDC	83.13492947	77.40599397	33	237.4740364	352.7926333	67.86942705	33	33	33	364.4713894	92.91497086
TRDV1	168.7150039	124.2096182	33	263.4617611	41.69367484	77.68187434	33	33	33	147.7152767	33
TRDV2	33	33	33	33	33	33	33	33	33	33	33
TRDV3	33	33	33	44.80642196	33	33	33	33	33	33	33
TREM1	33	33	33	33	33	33	33	33	33	33	33
TRGC1	33	93.60724853	33	33.15675225	71.62759524	71.14024281	33	16.96071172	39.62592293	33	33
TRGC2	33	33	33	33	43.83181201	138.1919659	33	33	167.8274383	38.53442002	37.00153707
TRGV2	33	64.80501821	33	32.26062381	33	33	33	33	81.58278251	33	33
TRGV3/5	154.044134	340.2263456	326.0142857	189.0831007	351.7235647	592.0176528	33	136.1568246	266.3095115	170.9964888	282.8561945
TRGV4	83.13492947	109.8085031	167.4127413	33	39.55553767	30.25504579	33	33	33	33	33
TRGV8	33	33	33	33	33	33	33	33	33	33	33
TRGV9	33	33	33	33	33	33	33	33	33	33	33
TRIM10	33	66.60515761	33	33	33	33	33	33	33	33	33

TRIM22	833.7944397	903.6699762	546.2942084	2340.687483	942.9184925	246.1288861	1108.773922	610.1144911	331.5757375	611.7339178	322.3245007
TRIM25	271.4110933	270.0209092	277.5527027	660.4466597	611.507231	348.3418786	410.7823997	417.8930916	434.1369498	633.4095291	465.3971107
TRIM26	320.313993	405.0313638	502.2382239	248.2275777	258.7145977	238.7695506	370.7198305	266.1889478	178.3166532	194.2777009	219.5424533
TRIM31	33	86.40669095	33	33	33	33	33	16.96071172	33	33	33
TRIM33	1080.754083	799.2618913	920.7700771	1167.655356	808.2158508	1027.853853	910.153861	842.3820155	937.0365305	851.7712426	761.4094072
TRIM34	117.3669593	120.6093394	33	281.3843299	267.2671464	170.0824196	295.673046	243.5746655	182.3957923	244.0513268	229.4095298
TSC2	330.0945729	372.6288547	330.4198841	509.0009535	383.7956222	324.6284643	291.7232152	293.514539	494.7413025	376.5133956	357.681525
TYK2	559.9382014	597.6462791	590.350193	804.7233384	503.5313038	295.1911225	314.8579383	317.071083	608.3744638	419.0618177	335.4806028
TYROBP	33	84.60655155	171.8183397	33	33	33	33	16.01844996	33	33	33
UBA5	212.7276136	246.6190971	343.6366795	509.8970819	531.3270871	779.2718552	468.3370766	496.5719487	758.1371432	818.8564255	591.2023367
UBE2F	337.4300079	325.8252304	246.7135135	632.6666781	366.6905249	486.5338445	198.6200614	379.7314902	609.5399322	631.8039283	379.0601909
UBE2I	699.3114656	689.4533882	511.0494208	797.5543109	1093.657163	1183.217602	1195.670199	1153.799528	1114.187715	1624.065244	1688.092347
UBE2V1	1797.181564	2230.37271	2163.148841	2581.746033	2876.863564	2794.912068	2980.429444	2668.485311	2485.361196	3649.530696	2937.099787
UQCR10	185.8310188	228.6177031	277.5527027	231.2011373	271.5434208	367.1490692	417.5535382	382.5582755	250.5756891	360.4573873	300.1235784
UQCRQ	317.868848	298.8231395	180.6295367	982.1567694	1171.69917	2229.878645	2540.305445	1955.193157	1809.972303	3511.449024	2409.211191
USP15	3049.095796	3236.650632	3652.241119	2777.102033	1964.94806	897.8389266	687.2705534	787.7308333	1166.051056	830.0956313	637.248694
USP18	33	33	33	33	33	33	37.24126151	16.48958084	23.30936643	33	33
VAV1	865.5813245	678.6525518	418.5318532	687.3305129	677.7894833	481.6276209	479.6223074	480.5534988	477.8420118	497.7362586	510.6212116
VAV3	290.9722532	397.8308062	590.350193	74.37866046	80.18014392	45.79142066	33	54.18005133	33	65.02683379	55.09117741
VSIR	476.803272	446.4345699	484.61583	200.7327704	160.3602878	72.7756507	33	59.8336219	85.66192163	89.1108463	45.22410086
WAS	547.7124765	597.6462791	537.4830115	1451.728072	1243.326765	731.0273227	990.2789994	866.4096904	811.1659518	843.7432384	841.9905324
WDR45	222.5081936	217.8168668	233.4967181	450.7526049	330.342193	355.7012141	235.2970614	264.7755552	376.4462679	328.3453706	271.3446052
XAF1	193.1664538	372.6288547	237.9023166	406.8423114	231.9878831	58.87468371	42.8838769	51.35326604	177.1511849	33	33
XCL1/2	33	66.60515761	33	33	43.83181201	44.15601278	33	31.09463816	991.8135416	399.7946077	33.71251155
ZAP70	2088.153817	2557.99808	2348.183976	3666.957573	3145.199779	1189.759233	1604.195553	1718.214324	1411.382137	1196.172621	1484.995021
ZBTB16	154.044134	151.2117092	268.7415058	47.49480728	95.14710412	33	33	55.12231309	33	33	67.4250231

Ex vivo vs ExpTregx2

Gene	ex vivo Treg	ex vivo Treg	ex vivo Treg	expTreg x2	expTreg x2	expTreg x2	log2FC	p-value	FDR
PYCR3	5.044394119	5.044394119	5.044394119	5.396366281	5.38175663	5.38207584	0.342338798	3.76493E-07	0.000212719
CCR6	9.135410063	9.236125912	9.150565263	5.596664931	5.768779754	5.044394119	-3.704087478	3.02174E-06	0.000853642
ACADVL	10.63864817	10.59126002	10.54872894	12.13812011	12.10373214	12.04084737	1.501354168	6.18919E-06	0.001165631
NFKB2	12.05313238	11.89931757	12.01278212	10.33663301	10.39899334	10.33535934	-1.631415459	2.90169E-05	0.004098639
TKT	9.090819912	9.037933186	9.161705821	10.07539711	9.980524931	10.09119345	0.952218856	5.69912E-05	0.006440003
RDH10	7.044807514	7.076927317	8.070075345	11.33713282	11.08077287	11.32436034	3.850151952	9.61664E-05	0.009055673
CD4	8.656242226	8.819652181	8.309263009	11.43002358	11.67849639	11.66856565	2.997309404	9.91775E-05	0.008005041
GNAI2	11.61410056	11.63519495	11.40612455	12.56415806	12.68389755	12.66020639	1.084280651	0.000103853	0.007334604
IL12RB2	8.398444469	8.448021469	8.678496819	9.965898741	10.15434613	10.03045105	1.541911055	0.000118568	0.007443441
HLA-DRA	9.232434517	8.569207815	9.655037846	13.22237377	13.08290756	13.44414844	4.097583199	0.000231871	0.013100732
FH	7.813481968	8.057561992	8.247862464	9.417316676	9.38175663	9.58309461	1.421087164	0.000329273	0.016912672
MAML2	9.651863786	9.433071127	9.573966235	7.858585717	6.877714125	7.791799539	-2.043600589	0.000336104	0.015824891
BCL2L1	6.874882513	7.491964816	5.044394119	9.601665612	9.363140952	9.56707844	3.036757653	0.000376465	0.016361736
HMGCR	7.575322231	7.417964235	7.94669293	9.22763983	9.471393843	9.271892922	1.6769824	0.000426431	0.01720953
ADD1	9.58912803	9.5520122	9.150565263	10.62067591	10.72662154	10.82078617	1.292126039	0.000436077	0.016425577
CPT1A	7.147901007	7.037933186	5.044394119	8.942439768	8.932404767	8.859397617	2.501337947	0.000444621	0.015700667
TP53	8.757525562	8.864916914	8.387265521	9.948994505	10.17717194	10.04392378	1.386794076	0.000482808	0.016046253
SLC25A20	7.647472017	7.82538855	7.496890012	9.701312215	9.545503057	9.351702191	1.876255628	0.000533132	0.016734423
IL2RA	11.48221283	11.26490615	10.3681567	14.20946519	13.88537854	14.30531592	3.094961323	0.000579431	0.017230445
CHMP4A	10.184737778	9.995313552	9.874047628	10.87863788	11.00098903	10.84471844	0.890082132	0.000657094	0.018562902
NSD2	9.184737775	9.124233032	9.319247098	10.33663301	10.45390642	10.17215277	1.111491432	0.000810167	0.021797345
CD3E	11.13384106	11.18238191	10.40143285	12.22790937	12.19504451	12.22165017	1.308982738	0.000894378	0.022969253
MAPK3	8.00416553	7.987659979	7.226800849	9.096805999	9.305807777	9.209496385	1.464494601	0.000990825	0.024339826
PYCR2	8.789765899	8.802304937	8.268621025	10.43236448	10.10478303	10.46537265	1.713942768	0.001183029	0.027850468
VSIR	8.897250326	8.802304937	8.920697721	7.649132351	7.325173102	6.185383929	-1.820187867	0.001196828	0.027048314
PARP1	8.387952095	8.355903267	7.920697721	9.83895691	10.28122975	10.13276641	1.862799996	0.001392325	0.030256844
ICOSLG	8.509088533	8.410351051	8.709193616	7.341623316	7.42727129	6.879575499	-1.326721032	0.001435138	0.030031602
IL2RG	12.0110192	11.82395659	10.87743027	13.08420726	13.03721855	13.07569945	1.494906398	0.001445059	0.029159219
PRDM1	9.769700276	9.799393342	10.09933994	10.77988676	10.95277994	10.73686538	0.933699507	0.001480507	0.028844369
ACSL5	8.449791349	8.62946834	8.247862464	9.845997895	9.658596836	9.495920125	1.224464234	0.001795021	0.033806234
SRR	5.044394119	5.044394119	5.044394119	6.089704943	6.118722225	6.423896015	1.166380275	0.001895147	0.034540583
NME2	11.49815437	11.15074755	10.64713265	12.70538297	13.04106647	13.16549141	1.871968761	0.00215607	0.038068112
GZMK	7.267199936	7.813892911	7.783194197	5.044394119	5.588207508	5.044394119	-2.395763766	0.00231894	0.039703063
HADHB	8.940971703	8.712294771	8.387265521	9.880696418	9.971335759	10.24589771	1.352465965	0.002443569	0.040606368
GFM1	7.948131495	8.142729376	8.247862464	8.968481902	8.793321938	9.073785153	0.832288552	0.002567952	0.041454086
EBI3	5.044394119	5.044394119	5.044394119	7.986435672	7.703684725	8.353506687	2.970148242	0.002646711	0.041538653
DECR1	8.749351631	8.724625573	7.496890012	10.25222878	10.34665283	9.949249027	1.859087807	0.002696278	0.0411729
ATP5PD	8.86734884	8.636011186	8.598769626	9.521257529	9.610082007	9.837644819	0.955618234	0.002719366	0.040432679
PKM	10.13541006	9.9748131	9.443118756	11.84740198	12.2603185	12.45111748	2.335165349	0.002734015	0.039608163
NFATC1	9.328839001	8.831102201	9.046228603	7.596664931	6.954335407	7.316980811	-1.779396219	0.002745677	0.038782692
CISH	6.749351631	6.730751676	7.348791373	9.69040037	9.113162699	9.688360957	2.554343115	0.002752462	0.037930275
MAP3K7	9.135410063	8.961850793	9.046228603	9.793062144	9.545503057	9.733404851	0.642826864	0.002857103	0.038434837
STAM	11.23828724	10.97610295	11.17276101	10.00038712	8.874431541	9.970570031	-1.513920837	0.002896649	0.038060617
IDH3A	8.86734884	8.371670583	8.348791373	9.450956167	9.486523368	9.665300405	1.004989715	0.003114925	0.039998466
FOXO1	10.86167266	10.87877576	11.20003394	9.917256579	9.903709334	9.371428595	-1.249362617	0.003466225	0.043520384
CCL28	7.419203029	7.903391062	7.839777726	8.891625979	8.639386232	8.604468261	0.991036218	0.003811537	0.046815618
GLS	11.76362576	11.62782798	11.95951697	11.05912933	11.02116692	11.03607998	-0.744864826	0.003840579	0.046168664
DAP3	9.976420539	9.819652181	9.670719468	10.6499372	10.56802963	10.38737014	0.71284826	0.003842455	0.045228896
TGFBR1	8.345202448	8.331924404	8.631191104	11.11265672	10.50892426	11.20050137	2.504588134	0.004029111	0.046458115
BUB1	6.682237435	7.257499563	7.461266103	8.60664902	9.024132374	8.601434201	1.610404165	0.00411066	0.046450455
GNMG10	6.459845014	6.655463549	5.044394119	7.918593026	8.194386494	7.775739688	1.909672176	0.004165133	0.046143135
CMIP	7.172563061	7.18795863	7.387265521	6.724420478	6.40013516	6.592293547	-0.676979342	0.004184685	0.045468216
TCF7	9.840666797	9.201255452	9.514377439	7.730520678	5.711064256	5.044394119	-3.356773545	0.004293803	0.045773561
COX6B1	9.972914596	10.19683678	9.940237908	11.25857496	11.36196946	11.74925502	1.419936715	0.004537794	0.047478773
PFKP	8.997279144	8.813892911	9.309263009	9.950301886	9.784604721	10.0803379	0.898269815	0.004668844	0.047961757
MTHFD1	8.017840467	8.214430841	7.783194197	9.006684356	9.495098103	9.401394017	1.295903657	0.00475037	0.047927838
IL18BP	6.99035973	7.057561992	7.461266103	5.971060446	5.650943263	5.353506687	-1.511225809	0.004848222	0.048056933
MAGED1	7.99035973	7.813892911	7.997319003	8.636193295	8.718406231	8.992738851	0.848588911	0.005024536	0.048945912
CD3D	11.59825904	11.26067847	10.54447947	12.50999763	12.7384061	13.01128958	1.618758776	0.005398288	0.051695471
SGK3	7.919276632	7.477465247	7.631191104	6.089704943	5.79679413	6.709650498	-1.477261138	0.005554968	0.052309279
HSPA9	9.871120594	9.799393342	9.818818107	8.981328782	8.975937661	9.432458029	-0.69986919	0.005692632	0.052726834
CCL20	9.643066838	8.997855746	9.914125067	5.268042184	6.073634335	5.044394119	-4.056325671	0.005859086	0.053393285
OMA1	6.647472017	6.956633083	5.044394119	8.031601988	7.978997461	7.786466095	1.716188775	0.006053265	0.054287222
CCR3	6.904629856	6.706089622	7.309263009	5.365339385	5.522619166	5.044394119	-1.662543272	0.00614553	0.054253503
NMT1	9.19078682	9.067277147	9.183732127	9.865531782	9.712903255	10.08468993	0.740442957	0.006353571	0.055227192
SMC2	7.59370076	7.892502746	8.093534318	9.077791621	9.38175663	9.681194052	1.520334826	0.006369728	0.054528733
NCAPD2	8.071279726	8.642524493	8.514377439	9.413530073	9.709222909	9.316980811	1.070517378	0.006527457	0.055044971
KLRG1	7.479744571	7.680998641	7.81176335	6.623137143	6.55578603	5.135915252	-1.552556045	0.006544207	0.054374662
SMURF1	8.682237435	8.347954514	8.693926859	7.163705524	7.194386494	7.84920185	-1.17227498	0.006649217	0.054446489

NDUFAB1	9.272913587	8.77292113	8.709193616	10.22979471	10.50468415	10.8408644	1.606771645	0.006718397	0.05422706
IL7R	10.28709949	9.9748131	9.319247098	5.044394119	5.044394119	6.410090216	-4.360760412	0.006848565	0.054499144
FYN	11.93827759	11.52230089	11.47472836	10.61656449	10.0650212	10.39964847	-1.284690896	0.006971995	0.054710797
BATF	9.339768562	9.339961723	9.058201245	10.00164877	10.38752511	10.48361387	1.044952071	0.007043963	0.054518346
NME1	6.933776202	7.114895167	7.387265521	8.760640666	9.518419178	9.446052429	2.096391794	0.007390406	0.056426751
MTHFD2	9.110098974	8.808110559	9.27888936	10.1838521	10.28370648	10.70188076	1.324113484	0.007465971	0.056243648
GART	8.499373378	8.160991582	8.268621025	9.742644237	9.647101197	9.193466275	1.218075242	0.007474518	0.055567137
ADAR	10.74524723	10.51876488	10.3681567	11.33813192	11.1624436	11.52463343	0.797680049	0.007490741	0.054964531
CASP3	9.172563061	8.972229939	9.150565263	11.08018217	10.89239402	11.60522578	2.094147902	0.007537919	0.054601592
CKAP5	7.398444469	7.323842058	5.044394119	8.474772626	8.938704755	9.042805848	2.229867528	0.007778982	0.055634489
GPI	8.897250326	9.128879397	9.289085127	9.88753709	10.17317001	10.3891306	1.044874282	0.008158322	0.057618147
NAA20	7.699310948	7.642524493	7.81176335	8.619854559	8.834446671	9.173174871	1.157959103	0.008242075	0.05749102
TFDP1	7.377382853	7.642524493	7.867258462	8.757656808	9.230780732	9.437570952	1.512947561	0.008803587	0.060658864
JAK1	11.55436261	11.60882857	12.01431936	10.80177936	10.77407405	10.55278641	-1.01629024	0.009201177	0.06263452
IFI35	5.044394119	6.307540245	5.044394119	7.991524549	7.948103453	7.248809309	2.264036275	0.009598952	0.064564377
RORA	11.51994045	11.0117583	11.54021744	10.32256763	10.09494484	9.213476236	-1.480309162	0.009877487	0.065656237
COX5B	10.08758154	9.969642144	9.804673925	10.84036786	11.20879392	11.46495539	1.217406519	0.009975014	0.06553352
CTSD	7.797714652	8.067277147	8.021981057	10.02292969	10.01073954	10.72227504	2.289657137	0.01004346	0.065224766
ATP5MF	8.889832854	8.724625573	7.997319003	10.24585457	10.71290326	11.08251556	2.143165316	0.010045074	0.064493941
CTNNB1	11.18927694	10.86491691	10.96906074	11.61450438	11.43787323	11.72436843	0.584497149	0.010254234	0.065097106
SIK1	10.86545926	10.53285725	11.51654854	7.38093624	7.246101531	5.044394119	-4.414477718	0.010510315	0.06598142
NOTCH2	8.267199936	7.94614071	7.226800849	9.384809249	9.63572812	10.11052993	1.896256834	0.010756026	0.066781922
RUNX3	11.69718778	11.57857876	12.16309236	9.614916636	10.04472164	10.74856949	-1.676883712	0.010760777	0.066085209
NDUFB9	9.00416553	8.919570989	9.105122292	9.843185624	9.803713544	10.27284677	0.963629042	0.011179507	0.067918513
IFI6	5.044394119	6.133510846	5.044394119	7.10856397	6.635513223	6.928819018	1.483532375	0.011229425	0.067496013
DVL2	7.732863508	7.813892911	7.268621025	8.225481722	8.409237367	8.217445138	0.678928927	0.011278847	0.067079459
PCK2	7.172563061	7.223148058	7.424740227	8.545681003	8.305807777	7.981113526	1.00405032	0.011471414	0.067514049
PPARA	7.289920012	7.223148058	7.387265521	7.748668025	8.167816774	8.013431246	0.676527484	0.011520861	0.067106045
SERPINB9	10.80955626	10.20566063	10.42935685	8.562876618	8.643248871	9.520222132	-1.572742043	0.011535933	0.066508188
PIK3R1	10.89539953	11.13351085	11.76687189	8.579869689	8.563959962	9.142192398	-2.503253406	0.012188679	0.069561653
RAC2	9.419203029	9.715387366	8.070075345	10.40306537	10.61205425	10.89700257	1.569152151	0.012581064	0.07108301
TNFRSF11A	5.044394119	6.09603614	5.044394119	9.154660384	9.722063255	10.28140314	4.324434134	0.012757275	0.071364953
UBE2V1	10.81152045	11.1230691	11.07891722	11.33413137	11.49028109	11.44858718	0.419830956	0.012883919	0.071366804
DDIT4	9.570690782	9.745954083	10.45222096	6.724420478	7.453906416	7.47120173	-2.706445734	0.01308079	0.071753848
WDR45	7.797714652	7.766971864	7.867258462	8.16192019	8.367817439	8.474522088	0.742195523	0.013946875	0.07576908
TGIF2	10.29273503	10.06969575	9.978541796	9.38093624	9.574112678	9.689790075	-0.565377859	0.014111746	0.075934631
PSMA6	8.948131495	8.748975435	8.582281503	9.449107743	9.839505806	10.05948459	1.022903235	0.014751557	0.078628582
HLA-DRB1	9.937378439	9.645770153	10.88753086	11.92724989	11.50839493	12.23590519	1.733623519	0.014882241	0.078583798
VAV3	8.184737775	8.636011186	9.205427198	6.21681686	6.325173102	5.51700542	-2.655726926	0.015155428	0.079285343
SOC54	8.707772527	8.636011186	8.183732127	9.036534284	9.079347986	9.040567376	0.542977935	0.015255976	0.079079142
PSMB10	9.39320782	9.425537455	8.997319003	10.12948981	10.14892246	9.762218548	0.74152218	0.015605868	0.080157413
MAF	9.809556265	9.745954083	9.804673925	11.47477263	12.3675256	11.74376164	2.075291867	0.015609807	0.079455323
CS	10.04480751	9.754999222	9.887530857	10.28160831	10.37131488	10.58078568	0.515457095	0.015727875	0.079341511
LAT	9.141669053	9.466494129	8.81176335	9.986435672	9.711064256	9.95044183	0.742671742	0.015783097	0.078915485
PPP2R5D	7.889832854	7.836793313	5.044394119	8.693526471	8.775834511	8.841507458	1.846616051	0.016314042	0.080854682
LAMP2	8.682237435	8.730751676	8.73925085	10.6157408	10.56802963	11.38428416	2.138604874	0.01642367	0.080690204
MX1	8.98340697	9.307540245	9.933753874	7.65555862	6.768779754	5.938469188	-2.620631176	0.016631909	0.081008868
COX4I1	11.48467687	11.09128261	11.26345932	11.82263104	11.90652435	12.21148768	0.70040809	0.016819856	0.081224093
PSMA2	10.1998131	9.908804558	9.461266103	10.9555196	10.99948309	11.54727843	1.310799119	0.016845166	0.080656941
FLCN	7.829078823	8.179025505	8.387265521	9.557739419	9.194386494	8.93606269	1.097606252	0.017282884	0.082057388
IL33	7.172563061	7.371670583	8.021981057	5.514202771	5.903709334	5.38207584	-1.922075586	0.017296768	0.081438949
LAMTOR1	7.097274934	7.257499563	5.044394119	8.036534284	7.916533374	8.201503594	1.585134212	0.017496208	0.081697169
CBR4	7.419203029	7.706089622	7.424740227	9.07059612	8.926077147	8.305840254	1.250826881	0.018052605	0.083604278
APC	7.459845014	7.642524493	7.754047852	7.259629944	6.966719131	7.201503594	-0.47618823	0.0182869	0.084000799
NDUFA1	10.54494858	10.44987942	10.26862102	11.63416104	11.82257257	12.41873431	1.537339634	0.018467921	0.084148188
SHMT1	5.044394119	6.274373381	5.044394119	6.609961754	7.085039098	7.177256048	1.50303176	0.019329251	0.087368214
COX6C	10.42177697	10.05999692	10.13369144	11.37705281	11.59420625	12.18437044	1.513388053	0.020457145	0.091732434
HDAC8	7.244116322	7.323842058	5.044394119	9.261737607	8.991172175	8.283297685	2.307951656	0.020499419	0.091198201
NCAPG2	7.439667132	7.520533969	7.920697721	8.177167784	8.688811449	8.692644072	0.892574828	0.020792758	0.091780533
CD80	7.244116322	7.387267438	7.724300508	11.15749309	10.25370135	10.1411481	3.065552756	0.021088467	0.092364215
TET2	9.3067283	8.864916914	9.53165543	9.872444565	10.04909566	9.791799539	0.670013039	0.021413564	0.093066641
PPIA	13.15719875	13.06999779	12.83804267	13.53591763	13.99882374	14.14785757	0.872453243	0.021543726	0.092917596
SOC52	7.172563061	7.987659979	8.268621025	12.11731999	10.70737921	11.80108588	3.732313671	0.021724272	0.092986466
TRAF6	8.664959443	8.74292639	8.73925085	8.467486272	8.28617897	8.555140549	-0.279443631	0.022139976	0.094053281
LEF1	10.54021843	10.84104696	9.761389827	9.058523287	7.129777413	6.859397617	-2.698318967	0.02239434	0.094423895
MKI67	6.537847526	6.371670583	5.044394119	7.623137143	8.615990664	8.071594271	2.118936617	0.022473355	0.094055153
CTNND1	6.682237435	6.892502746	7.348791373	6.181627432	5.650943263	5.264239349	-1.275573837	0.022589505	0.093846107
CD3G	9.382677153	9.351934365	8.768694628	10.55430443	10.28741363	9.878322616	1.072244842	0.022619147	0.093283343
UBA5	7.732863508	7.94614071	8.424740227	8.994062271	9.053456453	9.605982902	1.183252394	0.023312992	0.095448119
HACD4	7.99035973	8.223148058	5.044394119	9.521257529	9.918128394	9.017989528	2.399824514	0.023817556	0.096812368
AFDN	7.377382853	7.589575613	8.709193616	9.333630525	8.99722122	9.14844235	1.267714004	0.023931278	0.096579799

STAT1	10.43202707	10.62782798	9.880804994	14.18558773	13.49776729	12.91116184	3.217952273	0.024121249	0.096656068
MID1IP1	7.356009203	7.402697478	8.205427198	8.64590845	8.696267254	9.189430762	1.189157529	0.024273563	0.096581428
CD45RC	5.044394119	5.044394119	5.044394119	5.841777429	5.488671834	5.437570952	0.544945953	0.024835784	0.098127398
JUNB	12.53903346	12.7379928	13.62214596	9.528277956	10.83275634	8.992738851	-3.181799692	0.02494124	0.097859725
ICAM1	7.267199936	7.87047644	7.89422551	8.507113346	8.225637428	8.695492435	0.798780441	0.025054565	0.097626409
FKBP1A	5.044394119	5.044394119	5.044394119	6.349572069	6.505745348	7.225350336	1.649161798	0.025158712	0.09736077
ALDOA	11.04814323	10.98125084	10.80111611	11.65194737	12.11872222	12.46432926	1.13482956	0.025487499	0.097962155
RELA	9.844508864	9.516993611	9.573966235	8.524772013	8.982050785	9.250747113	-0.725966266	0.026733643	0.10205749
CCNC	8.398444469	8.274373381	7.754047852	9.257519197	9.248639254	9.948055237	1.342449329	0.026794701	0.101604067
MTHFD1L	7.244116322	7.170036722	7.309263009	9.016703112	9.087876258	8.097667783	1.4929437	0.026972651	0.101596984
ALDH3A2	8.732863508	8.548548345	8.839777726	9.918593026	9.256225748	9.570737404	0.874788867	0.027359039	0.102369912
TNFRSF9	9.116468499	9.028017717	8.693926859	9.621496784	10.38406679	10.46704051	1.211397002	0.027753836	0.103163928
MIF	9.424346332	9.315714177	8.662899964	9.875200431	10.50680576	10.68191235	1.220319356	0.027793891	0.102637572
IL32	12.70037136	12.69594898	10.9785418	15.03614955	15.51374546	16.32392899	3.499653955	0.027974564	0.102633953
ATP6V1F	9.301147268	9.24042605	9.226800849	9.92392647	10.28864723	10.70753563	1.050578385	0.028130284	0.102539423
RBX1	10.1447884	9.75800171	9.046228603	10.5534444	10.58920903	11.03214204	1.07525892	0.028258443	0.102346282
PSMA3	9.454826939	9.218796034	8.907522332	9.950301886	10.09070785	10.59763263	1.019165687	0.028393336	0.102179841
IL17F	6.647472017	7.506320109	7.920697721	5.044394119	5.344281925	5.169082116	-2.172243896	0.028455955	0.101757053
SMAD3	9.629770015	9.35986128	9.216153605	8.921262213	8.779348995	8.976437038	-0.509578885	0.028602473	0.101637718
OAS3	5.044394119	6.778845964	5.044394119	7.051230795	7.28617897	7.256544958	1.575440173	0.029201954	0.10311194
PDHA1	8.184737775	7.616292951	8.070075345	8.739622885	8.572087842	8.389130597	0.609911751	0.029808404	0.104607132
TRIM34	6.874882513	6.914197817	5.044394119	8.136398178	8.062138696	7.410090216	1.591717547	0.029953049	0.104465881
CEACAM1	5.044394119	6.576029081	5.044394119	8.988982354	8.576134676	7.598393747	2.832897819	0.030434425	0.10549356
TGFB1	10.7897659	10.70608962	11.47025489	9.751670513	9.668107055	9.873300174	-1.224344222	0.031192293	0.107461252
CD86	5.044394119	6.462818471	5.044394119	7.099165272	8.157050343	7.580015217	2.094874708	0.031234948	0.106956034
CCL11	6.682237435	7.114895167	7.839777726	5.044394119	5.225637428	5.135915252	-2.076987843	0.031913023	0.108619625
CD52	12.23170125	12.4036564	11.06711597	13.51619041	13.02357681	12.92047402	1.252589206	0.032092427	0.108576176
OPA1	9.122810026	8.859335882	9.615071439	9.778415368	9.908531717	10.14740257	0.745710769	0.032616016	0.109690769
IRF5	5.044394119	6.576029081	5.044394119	7.680981217	7.015217649	8.114791961	2.048724502	0.034132445	0.114111428
SMARCA4	9.024629632	9.028017717	8.972228022	9.857192482	9.801986799	9.29085108	0.64171833	0.034439971	0.114462256
MS4A4A	6.647472017	6.892502746	7.724300508	5.044394119	5.044394119	5.324360342	-1.950375564	0.034957892	0.115504145
CD14	6.575322231	6.307540245	7.348791373	5.044394119	5.044394119	5.044394119	-1.699490497	0.036286138	0.119195743
SLC25A6	11.60053279	11.2858607	11.04020482	11.8061183	12.01856713	12.35598419	0.751357103	0.036529959	0.119303046
ZBTB16	7.267199936	7.24042605	8.070075345	5.569697884	6.572087842	5.044394119	-1.797173828	0.036707061	0.119192469
SEPLG	6.419203029	6.914197817	5.044394119	8.629679989	7.929244426	7.634463001	1.938530817	0.037028077	0.119547791
PYCR1	5.044394119	5.044394119	5.044394119	6.31751086	6.488671834	5.567631493	1.08021061	0.037062229	0.118978179
UQCRCQ	8.312287825	8.223148058	7.496890012	9.939809512	10.19438649	11.12274948	2.408206531	0.037624442	0.120100621
LAMP1	10.42177697	10.36774488	10.26345932	11.03776473	10.91173771	11.55827344	0.8182649	0.037677897	0.119595572
CXCR6	7.765653443	7.997855746	8.368156698	8.748668025	9.788097931	9.676876756	1.360658941	0.038206774	0.120596802
TRIM26	8.323343014	8.661889818	8.972228022	7.955519595	8.015217649	7.899475057	-0.695749518	0.03848044	0.120785825
TNFRSF6B	7.244116322	7.562354144	8.116617931	6.724420478	6.505745348	6.067202502	-1.208573357	0.038806386	0.121135957
BCL6	9.103701203	8.649008527	9.716766836	7.724420478	7.941844462	6.616541093	-1.728890177	0.039272289	0.121916721
SH2D1A	8.682237435	8.462818471	8.406124548	9.411633037	9.871141471	10.45195993	1.394517996	0.039364726	0.121535901
UBE2I	9.449791349	9.429309209	8.997319003	9.639438955	10.09494484	10.2084997	0.688821313	0.040945409	0.125729109
IL15	6.499373378	6.730751676	7.268621025	5.485633619	5.978997461	5.995052716	-1.013020761	0.041341446	0.126259011
RPTOR	6.682237435	6.730751676	5.044394119	7.42673993	8.522619166	8.78111286	2.091029575	0.042154374	0.128049578
PDK3	7.962345354	7.448021469	7.662899964	8.23838221	8.639386232	9.033831044	0.9461109	0.042535284	0.128515696
CD226	8.489592357	9.110203472	8.116617931	9.738109833	10.90451418	11.20050137	2.042237211	0.044228603	0.12921067
IL6ST	12.45796528	11.64414824	12.74759283	11.31599037	10.60216597	10.88270296	-1.349615686	0.044324931	0.132505746
MAP2K7	8.836814472	8.842462064	9.406124548	8.234094852	8.431744766	8.213476236	-0.735361743	0.044417682	0.132084161
SGO2	6.459845014	7.018033628	5.044394119	7.37315889	8.107581667	7.548854286	1.502440694	0.045031304	0.133207786
NRF1	7.244116322	7.448021469	7.693926859	5.886171548	6.363140952	7.135915252	-1.000278966	0.045136473	0.132823476
FCGR3A	6.99035973	7.534609154	8.309263009	5.089704943	5.978997461	5.410090216	-2.118479758	0.045349741	0.132759604
IL1RN	5.044394119	5.044394119	5.044394119	5.674667443	5.711064256	6.353506687	0.868685343	0.045525919	0.132588373
PRF1	7.419203029	8.387267438	7.348791373	10.52213695	9.709222909	9.264239349	2.11344579	0.045789566	0.132672333
TIGIT	10.07127973	10.1790255	8.479188011	11.03407024	10.62383142	11.51176292	1.480057112	0.045895276	0.132300157
PGAM1	10.88797251	10.57942766	10.39200344	11.55473425	12.00699714	12.65783519	1.453387658	0.046359123	0.132958907
CXCL11	6.459845014	7.057561992	7.81176335	5.044394119	5.044394119	5.264239349	-1.992047589	0.047399138	0.135255116
CXCR4	13.60620154	13.50921866	14.44197693	12.72442048	12.33684764	12.37387554	-1.374084493	0.047798761	0.13571005
TOMM6	8.312287825	8.160991582	7.565602762	8.778415368	8.982050785	9.604468261	1.108684081	0.048928715	0.138223619
OAS2	7.99035973	8.87047644	8.724300508	9.06520194	9.837821398	9.056164231	1.071789715	0.049006502	0.137754596
GRPEL1	7.976420539	7.18795863	8.183732127	6.251168365	6.837821398	6.879575499	-1.126515345	0.049024311	0.137122454
COX7A2	10.04480751	9.867699355	9.488066162	10.74716443	10.9173311	11.69264407	1.318855526	0.049287571	0.137179691
TRIM25	8.084335878	8.076927317	8.116617931	9.367298238	9.256225748	8.444360118	0.930000993	0.051094686	0.141512244
CDC26	9.372069053	9.09128261	8.161705821	9.510662413	9.786352383	9.833771809	0.83524304	0.051251351	0.141253724
CD45RA	10.02462963	9.291052123	10.96588649	6.79597374	6.725711032	6.686930421	-3.357651019	0.051703793	0.141808948
PTCD1	5.044394119	6.402697478	5.044394119	6.79597374	6.588207508	6.51700542	1.136566983	0.05305515	0.144812366
LAG3	6.99035973	5.935571468	5.044394119	10.25434728	12.38752511	11.70929823	5.460281768	0.053628005	0.145672225
WAS	9.097274934	9.223148058	9.070075345	10.50355553	10.27998979	9.513781519	0.968942834	0.053894289	0.145695087
HAVCR2	6.813481968	6.997855746	5.044394119	9.400198142	9.462676626	10.76493293	3.590691956	0.05389658	0.145007466
KLRB1	10.65186379	9.417964235	9.39672585	6.268042184	6.754565894	7.889559588	-2.851462068	0.053920535	0.14438437

NT5E	6.499373378	7.274373381	7.662899964	8.353530083	8.518419178	9.397900807	1.611067782	0.055310153	0.147406777
SMAD2	9.196810608	8.892502746	8.387265521	9.601665612	9.906926046	10.55435626	1.195456349	0.055750902	0.147883848
CSF3R	6.575322231	6.935571468	7.920697721	5.044394119	5.044394119	5.044394119	-2.099469687	0.056068159	0.148030419
ENTPD1	8.797714652	9.484733247	7.693926859	10.33463205	10.89563603	11.75575134	2.336548222	0.05614467	0.14754297
CD69	11.22213476	11.0817283	12.36213291	9.641059051	9.379442765	8.209496385	-2.478665926	0.056197243	0.146997417
SH3BP2	7.071279726	7.477465247	7.598769626	8.671500164	8.173170009	7.889559588	0.862238387	0.056527916	0.147180979
ATP5MG	9.345202448	9.174538114	9.319247098	9.483829122	9.685069047	9.95876395	0.429558153	0.057782336	0.149756973
CCR4	10.99900382	10.94086577	10.30424493	12.66832592	12.46622435	11.34944339	1.413293044	0.05893888	0.152056928
SEC22B	8.664959443	8.541595584	8.783194197	8.999124364	8.982050785	9.415282885	0.468920936	0.059010126	0.151548732
IL2RB	10.22655795	10.19018329	9.226800849	10.84036786	11.23334552	11.96644888	1.465540057	0.060218746	0.153952901
NDUFA4	9.801672666	9.684158982	10.07597595	11.14327362	11.14279636	12.21148768	1.645250024	0.060245005	0.153326251
TLR2	6.647472017	6.491964816	7.724300508	5.044394119	5.044394119	5.044394119	-1.910184994	0.060393159	0.153014059
TPSAB1	6.377382853	7.223148058	7.867258462	5.596664931	5.488671834	5.135915252	-1.748845785	0.06159763	0.155369022
ACACA	5.044394119	5.044394119	5.044394119	6.38093624	6.768779754	5.542540512	1.186358049	0.06160503	0.154697075
ACTN1	7.59370076	7.402697478	5.044394119	9.329617463	7.978997461	8.818174954	2.02866584	0.061978608	0.15494652
PTGER4	10.40886108	10.40461468	11.70919362	8.353530083	8.178503453	8.430749686	-2.519962053	0.062521148	0.155614311
TNFRSF4	7.334314131	7.448021469	5.044394119	8.021686519	8.276263502	9.067202502	1.846140934	0.06316972	0.156539
IL23A	8.071279726	8.196836781	9.021981057	7.603328662	7.183817253	6.652165003	-1.283595549	0.064218418	0.158442823
SERINC1	12.0498082	11.87601462	12.20003394	11.11906483	11.03225609	11.88769283	-0.695614336	0.065756837	0.161533099
IL7	6.377382853	6.655463549	7.268621025	5.127179648	6.246101531	5.294612998	-1.211191083	0.066271521	0.162092681
UPL15	11.57416576	11.66028593	11.8345663	11.43936447	10.94027546	9.810312837	-0.959688408	0.066616491	0.162234128
PSPH	5.044394119	5.044394119	5.044394119	6.841777429	6.572087842	5.491010211	1.257231042	0.066676418	0.161683161
LDHA	10.65405467	10.44056566	10.7903897	10.87726388	11.76302225	11.73340485	0.829560318	0.066720786	0.161099334
HSPE1	12.15023107	12.13870351	11.45675062	11.01044955	11.38867604	11.34536862	-0.667063665	0.067291458	0.161785845
NFKBIA	13.27931451	13.00955547	14.28080656	11.17605071	12.29664002	11.50203411	-1.864983902	0.067538189	0.161691004
CD200	8.044807514	7.924924224	7.839777726	5.772514767	7.471393843	7.523431689	-1.014056388	0.069282643	0.165167482
AHR	11.50423913	11.52053397	11.64514956	10.09916527	10.61205425	11.41614652	-0.847518875	0.069987595	0.166147023
SLC2A1	5.044394119	6.133510846	5.044394119	6.089704943	6.344281925	6.437570952	0.883086245	0.070311035	0.166216464
ALDOC	8.547307855	8.562354144	9.150565263	8.369254435	7.890770278	7.791799539	-0.736134337	0.071341708	0.16795027
EGR1	9.122810026	9.351934365	10.19462044	7.507113346	8.890770278	6.909322842	-1.787386122	0.071654504	0.1679867
COX16	7.196810608	7.754999222	8.368156698	8.276405657	8.775834511	8.859397617	0.863890419	0.073154919	0.170795575
GARS	9.897250326	9.488353563	10.29920934	10.31649738	10.55783386	10.42303701	0.537518338	0.075177062	0.174794403
TNFRSF18	8.647472017	8.730751676	8.479188011	9.762130285	10.14484129	11.1685697	1.739376524	0.077807617	0.180169278
IFITM3	8.289920012	8.668287589	9.631191104	7.172694307	7.688811449	6.686930421	-1.680320843	0.078094401	0.180095252
RNASEL	7.312287825	7.491964816	5.044394119	8.259629944	7.635513223	8.013431246	1.353309217	0.0781059	0.179389568
CD7	9.761595226	9.244713408	8.709193616	9.911898374	10.15974949	10.81948115	1.058542256	0.079248198	0.181276242
UBE2F	8.398444469	8.347954514	7.94669293	9.305301802	8.518419178	8.926396356	0.685675141	0.079321851	0.180713088
DUSP1	13.35634561	13.58683425	14.67970825	10.9857983	13.01819535	7.316980811	-3.433971218	0.081627965	0.185220081
OAT	9.62083689	9.355903267	10.5230423	7.875200431	7.884256971	9.110529934	-1.543265041	0.083104872	0.18781701
HK2	7.356009203	7.754999222	8.289085127	7.117901834	7.129777413	6.686930421	-0.821827961	0.084243773	0.189632397
IFNA1	7.071279726	7.94614071	8.907522332	5.333630525	6.003245007	5.838933515	-2.24971124	0.08436857	0.189159691
IL1A	5.044394119	6.602996129	5.044394119	8.06094595	9.320356086	10.31234936	3.66728901	0.084371475	0.188418512
IRF7	8.80561985	8.520533969	8.972228022	8.301209048	8.363140952	6.675434782	-0.98619902	0.084680497	0.188364097
JAK2	7.781773108	8.133510846	8.161705821	10.47022297	9.745610589	8.794458885	1.644434223	0.085129719	0.18862075
CCR7	10.93737844	10.383384	9.933753874	9.7075107	9.703684725	8.080337904	-1.254327662	0.086106836	0.190040477
NCR3	5.044394119	7.037933186	5.044394119	8.246918892	7.877714125	6.720877753	1.906263115	0.089395628	0.196531243
GRK2	10.27576195	10.35788363	10.86385186	10.91859303	11.36079701	10.89762109	0.559837896	0.089604408	0.196226707
COX7B	10.55201486	10.32788889	10.12233158	10.94178265	11.00474703	11.84600084	0.930098398	0.089696795	0.195670614
LILRB3	6.874882513	7.402697478	8.116617931	6.251168365	6.588207508	6.201503594	-1.117772818	0.090417925	0.196485107
FOSB	12.37007132	12.40173792	14.04095917	8.784291934	10.50043155	6.396151025	-4.377297967	0.091451536	0.197969801
FUT7	7.976420539	8.355903267	7.920697721	8.471134049	10.47356494	10.20750233	1.633059933	0.093016038	0.200588021
NEDD8	8.911971832	8.997855746	8.329162567	10.06939337	10.26000409	11.5105504	1.866985904	0.093484527	0.200831779
IL12RB1	8.356009203	8.655463549	8.116617931	10.0291295	9.39097516	8.812938306	1.034984095	0.095347274	0.204057613
PRKAB2	7.59370076	7.655463549	7.598769626	8.131796276	7.747406103	8.461194557	0.497487667	0.09581861	0.204292509
CD27	7.732863508	7.718473346	5.044394119	10.04390125	9.742012844	7.726458785	2.338880636	0.100745273	0.21398902
LTA	8.566044417	8.534609154	9.991087049	11.30785389	11.40810273	9.495920125	1.706712041	0.105207873	0.222630892
RPL3	11.9920927	11.46189809	12.35608387	10.83400769	10.70922291	11.67110019	-0.865247953	0.1063994	0.224312167
NFATC2IP	8.110098974	7.987659979	5.044394119	8.693526471	8.467041818	8.279506106	1.432640441	0.107820447	0.226463022
MTHFS	7.629770015	7.74292639	7.783194197	8.036534284	8.050550722	8.681194052	0.537462818	0.107832901	0.22565033
GADD45B	11.42306222	11.51964969	13.15753819	9.134099062	9.866192255	8.331702317	-2.922752157	0.108829759	0.226895992
BATF3	5.044394119	6.307540245	5.044394119	5.864145242	8.951222795	8.887070036	2.435369863	0.109028321	0.22647427
KLF2	12.65295964	12.97384496	13.38963643	12.65134461	12.39011342	10.71597658	-1.086335472	0.109647758	0.226926678
IRF4	10.81935057	10.23397103	10.82933598	11.8428337	11.33416189	10.91849449	0.737610835	0.109652393	0.226108037
SOC55	8.312287825	8.315714177	8.853583525	8.051230795	8.032992351	8.110529934	-0.428944149	0.111074772	0.228208168
ARAF	7.556706553	7.655463549	7.754047852	7.117901834	7.580170189	6.477834822	-0.596770369	0.111952245	0.229177604
SHMT2	9.366735609	9.007979963	8.247862464	9.639438955	9.592209438	9.277606573	0.62889231	0.113226513	0.230949386
MYC	9.110098974	8.562354144	9.226800849	10.2826466	9.95277994	9.135915252	0.824029274	0.114590401	0.232890563
MPC2	8.690799448	8.62946834	9.247862464	9.343614614	9.660503902	10.46203114	0.966006469	0.115416805	0.233729371
CIITA	5.044394119	6.24042605	5.044394119	8.93453457	8.230780732	6.233212454	2.356437822	0.116045924	0.234164096
CXCR5	6.499373378	6.520533969	5.044394119	5.044394119	5.044394119	5.044394119	-0.977039703	0.116169088	0.233578415
IFNAR1	9.85597405	9.391140447	8.514377439	10.13179628	9.727531467	10.58001522	0.892617008	0.116289039	0.232990451

PFKFB4	5.044394119	5.044394119	5.044394119	5.044394119	5.225637428	5.233212454	0.123353881	0.116305684	0.232200394
DIABLO	8.948131495	8.881531628	9.009702727	8.528277956	8.559878785	8.93606269	-0.271715473	0.117051014	0.232865573
PSAT1	6.419203029	6.730751676	7.496890012	7.830462116	7.941844462	7.209496385	0.778319415	0.11709183	0.232129417
IL21	6.419203029	6.520533969	5.044394119	5.044394119	5.044394119	5.044394119	-0.950316253	0.117358143	0.231843883
KIR3DL1	8.267199936	9.196836781	10.33409486	6.583244416	7.235905764	7.561399539	-2.139193953	0.11789015	0.232083397
CTSW	5.044394119	7.170036722	7.424740227	7.208099643	8.55578603	9.040567376	1.721760661	0.118385068	0.232248484
TGFBR2	9.284273449	8.534609154	9.161705821	8.321557693	8.413767025	8.701172344	-0.51469712	0.118933954	0.232517939
TLR4	6.377382853	6.576029081	5.044394119	5.044394119	5.044394119	5.044394119	-0.954874565	0.120824892	0.23540022
PGK1	11.36272255	11.05756199	10.7903897	11.70596357	12.25338549	13.24577627	1.331483697	0.121117807	0.235160002
TNFSF13B	5.044394119	6.730751676	5.044394119	9.134099062	7.572087842	7.464538	2.450394996	0.121271679	0.234652393
NPRL3	7.797714652	8.076927317	7.94669293	8.489235856	8.367817439	7.981113526	0.338943974	0.122582649	0.236379511
IGF1R	5.044394119	5.044394119	5.044394119	5.542217147	5.044394119	5.663846808	0.372425239	0.12289466	0.236175112
SCD	7.267199936	7.205660631	8.205427198	9.785757343	10.57310062	8.177256048	1.952608747	0.123555275	0.236639765
TIMM23	8.732863508	8.616292951	8.853583525	8.996595538	9.138013563	9.770346429	0.567405182	0.125070718	0.238732958
CREB1	9.339768562	9.371670583	9.25827908	9.833299275	9.370150011	9.602952028	0.278894363	0.125162606	0.238102909
CD96	9.474795355	9.579427658	9.299209344	10.54913656	9.716574237	11.23026918	1.047515873	0.125223923	0.237421197
CCR2	6.749351631	7.018033628	7.348791373	6.981328782	5.650943263	5.233212454	-1.083564045	0.125253287	0.236682632
PHGDH	5.044394119	5.044394119	5.044394119	6.674667443	8.422783899	6.786466095	2.250245026	0.126242258	0.237756252
LPAR6	9.817397018	9.828248204	8.514377439	11.23194639	10.66145649	12.55807783	2.097152682	0.127793452	0.239878075
CD1A	5.044394119	6.997855746	7.387265521	5.044394119	5.044394119	5.044394119	-1.43211101	0.127851799	0.239192934
COLEC12	5.044394119	7.09603614	7.496890012	5.044394119	5.044394119	5.044394119	-1.501379305	0.128054174	0.238780885
LCK	10.43202707	10.42175581	10.09939994	11.160885	11.43006884	10.34355391	0.660461642	0.131561397	0.24451378
TIMM17A	9.289920012	9.023034309	9.25827908	9.27431933	9.404693442	9.590764458	0.232847943	0.135502246	0.251012357
PDCD1LG2	5.044394119	5.044394119	5.044394119	5.772514767	5.418282506	6.663846808	0.907153908	0.136471893	0.251982417
TFAM	8.575322231	8.425537455	8.81176335	8.284720925	8.349019844	8.464538	-0.238114756	0.139130811	0.256055075
PTK2B	10.41662448	10.58620089	10.37295768	10.29401867	10.23846147	9.389130597	-0.484724107	0.139356723	0.255638144
PRKCB	9.39320782	8.616292951	8.226800849	9.83754458	9.608107065	9.062797323	0.757382449	0.141693556	0.259083686
IL6R	8.638648166	8.470160446	7.94669293	7.642677329	8.204878868	6.013431246	-1.064838033	0.142871934	0.260395622
KYAT1	5.044394119	6.274373381	5.044394119	7.284720925	6.929244426	5.686930421	1.179244717	0.143505347	0.260709071
SLAMF6	8.184737775	8.355903267	5.044394119	9.480213343	9.541369257	7.84920185	1.76191643	0.143645065	0.26012648
COX19	8.356009203	8.067277147	7.631191104	7.875200431	7.40013516	6.899475057	-0.626555602	0.14601468	0.263572826
CPA3	5.044394119	6.935571468	7.53165543	5.044394119	5.183817253	5.044394119	-1.413005175	0.146498275	0.263603585
CD9	5.044394119	5.044394119	5.044394119	7.661956392	7.732979032	9.766288213	3.342680426	0.147988266	0.26543927
CTNNA1	7.518738703	8.142729376	8.205427198	9.026652772	9.955889198	11.32482031	2.146822335	0.148345859	0.265238641
CHMP3	9.178663261	9.436823262	9.299209344	9.471134049	9.604149052	9.374986415	0.178524549	0.149701848	0.266818751
IL10	5.044394119	5.044394119	5.044394119	5.044394119	9.732979032	8.872041826	2.838744207	0.151740998	0.269602717
IL2	5.044394119	6.602996129	7.268621025	5.044394119	5.044394119	5.044394119	-1.260942972	0.152254843	0.269667668
TFRC	10.99382359	10.98253495	11.73739051	11.68334178	11.6514228	11.74513695	0.455384163	0.152683173	0.269581227
TNFSF9	6.874882513	6.576029081	7.662899964	5.569697884	6.418282506	6.555140549	-0.856896873	0.153440702	0.270074755
MAX	11.79771465	11.51433263	11.13369144	11.29195768	11.0928279	10.74444946	-0.438834563	0.155384994	0.272647583
ICOS	11.6397541	11.03669747	10.59466523	10.8176254	10.33714574	9.806365652	-0.769993337	0.159903891	0.279708045
TRAF3	10.46484569	10.12190423	10.45675062	9.996595538	10.12426041	10.24492587	-0.22590624	0.160979216	0.280719929
RORC	7.59370076	6.778845964	5.044394119	5.044394119	5.044394119	5.044394119	-1.427919495	0.16282815	0.283070476
CD40	5.044394119	5.044394119	5.044394119	5.748668025	5.588207508	6.985774903	1.063156026	0.163142037	0.282746168
SLC2A2	5.044394119	6.956633083	7.754047852	5.044394119	5.266279413	5.067202502	-1.45906634	0.165957378	0.286745929
NDUFA2	7.647472017	7.371670583	5.044394119	7.960718502	8.146202961	7.437570952	1.160318565	0.166303092	0.286467216
SIRPG	7.962345354	8.470160446	7.724300508	9.634567723	9.824274866	7.764932933	1.022323071	0.166487073	0.28591245
IL12B	5.044394119	6.87047644	7.754047852	5.044394119	5.044394119	5.044394119	-1.511912018	0.167605149	0.28696033
IL20	5.044394119	6.655463549	7.496890012	5.044394119	5.044394119	5.044394119	-1.354521774	0.167622477	0.28612296
TIMP1	7.356009203	7.402697478	7.387265521	8.229794714	8.944977352	10.43331144	1.820703769	0.169258446	0.288045247
TRAF5	8.00416553	8.205660631	7.693926859	9.552583863	9.096354412	7.833771809	0.859652354	0.172626356	0.292894568
CD45RO	11.22949923	11.61380911	10.79754949	11.26594372	12.08397372	11.93123762	0.546765743	0.176181178	0.298031035
IRF6	6.419203029	6.057561992	5.044394119	5.044394119	5.266279413	5.233212454	-0.659091052	0.17641057	0.297528276
FCAR	5.044394119	6.462818471	7.348791373	5.044394119	5.044394119	5.044394119	-1.240940535	0.176588216	0.296941494
OAS1	7.097274934	8.214430841	7.387265521	9.351552433	9.712903255	7.225350336	1.196944909	0.176691425	0.296233398
PFKL	10.1037012	10.1031372	10.26345932	10.67466744	11.09212156	10.13276641	0.476419231	0.178632123	0.298601034
CXCL14	5.044394119	6.680998641	7.461266103	5.163705524	5.344281925	5.044394119	-1.211425765	0.178662547	0.297770911
HLA-E	12.38531703	12.41416266	12.20273309	13.18426884	12.55936782	12.50447247	0.415298782	0.178986631	0.297433666
KLRC1	5.044394119	7.387267438	7.631191104	5.365339385	6.027091749	5.437570952	-1.077616858	0.181188639	0.300209915
AKT1	7.976420539	8.248988063	8.662899964	8.463829249	9.059250417	8.678317291	0.43769613	0.184851255	0.305382921
DGLUCY	8.852162436	9.270173393	7.496890012	10.52125753	10.15299213	8.467873712	1.174291975	0.184884282	0.304546996
LTB	11.59027257	11.75650125	11.2161536	14.5880293	13.70218113	10.94446793	1.557250314	0.189649112	0.31148764
TYROBP	5.044394119	6.402697478	7.424740227	5.044394119	5.044394119	5.044394119	-1.246216489	0.19220814	0.314775649
FOXP3	9.72454824	9.813892911	8.424740227	10.77473032	10.43509079	9.373208602	0.87328278	0.19400404	0.316798504
IRF1	9.690799448	9.754999222	11.22945043	9.034070244	9.699980757	7.225350336	-1.571949254	0.195310725	0.31801314
CCL25	5.044394119	6.576029081	7.387265521	5.044394119	5.488671834	5.201503594	-1.091039725	0.196458914	0.318963467
CCL15	5.044394119	6.433071127	7.424740227	5.089704943	5.183817253	5.044394119	-1.194763053	0.196489269	0.318098674
DHFR2	5.044394119	6.87047644	7.309263009	7.549136561	7.085039098	7.41700963	0.942350574	0.196828383	0.317737247
SLC2A11	6.459845014	6.778845964	5.044394119	7.609961754	6.941844462	6.504066364	0.924262494	0.197265658	0.317535888
PLCG1	11.01954076	11.14387756	11.32421335	11.26489334	10.3227666	9.619543581	-0.760142714	0.200218136	0.321372861
MR1	7.122810026	7.151889375	7.693926859	8.080182168	7.256225748	8.10196792	0.489916526	0.200729088	0.321280269

SLAMF7	5.044394119	5.044394119	5.044394119	5.971060446	5.044394119	6.899475057	0.927249088	0.201340921	0.32134921
CCL8	5.044394119	6.462818471	7.53165543	5.199329434	5.044394119	5.044394119	-1.250250116	0.201702609	0.321019646
CD163	5.044394119	6.170036722	7.226800849	5.044394119	5.044394119	5.044394119	-1.102683111	0.204878429	0.325158181
LILRA1	5.044394119	6.602996129	7.754047852	5.044394119	5.044394119	5.264239349	-1.349470171	0.207289436	0.328063113
ISG15	9.064707072	9.481103824	9.94669293	8.489235856	9.5078654	8.287079326	-0.736107748	0.207333195	0.327215797
IL36A	5.044394119	6.548548345	7.226800849	5.514202771	5.522619166	5.044394119	-0.912842419	0.211018298	0.332104007
CCL19	5.044394119	6.371670583	7.387265521	5.044394119	5.38175663	5.044394119	-1.110928451	0.211153115	0.331393084
CXCL9	5.044394119	6.548548345	7.424740227	5.044394119	5.38175663	5.464538	-1.042331314	0.211849257	0.331564627
IFNB1	5.044394119	6.307540245	7.496890012	5.044394119	5.044394119	5.044394119	-1.23854734	0.212484903	0.331640802
CCL4	5.044394119	5.044394119	5.044394119	5.044394119	10.26126134	11.91208046	4.028184521	0.212639084	0.33096717
IL26	5.044394119	7.307540245	7.598769626	5.044394119	6.40013516	5.410090216	-1.032028165	0.217015937	0.336851661
MDFIC	5.044394119	5.044394119	5.044394119	5.42673993	5.044394119	5.169082116	0.169011269	0.218369619	0.338024205
CCL3	7.071279726	7.448021469	8.783194197	7.080182168	11.23013882	12.77270846	2.593511353	0.220904873	0.341014353
FAM30A	5.044394119	6.170036722	7.348791373	5.044394119	5.225637428	5.067202502	-1.075329388	0.228915101	0.352416981
PPAT	8.017840467	8.440565664	8.368156698	8.225481722	8.685069047	9.056164231	0.380050724	0.2319984	0.356193196
RAI1	6.874882513	6.655463549	5.044394119	6.674667443	7.162443602	6.96703834	0.743136402	0.234103729	0.358451508
MAP3K14	9.414041324	9.45543894	10.17276101	9.371207983	9.39097516	9.049500501	-0.410185876	0.234268854	0.357734872
BCL2	9.651863786	9.569207815	9.406124548	10.40592692	9.930825462	9.47120173	0.393585987	0.235823708	0.359138531
SLC27A3	5.044394119	6.274373381	5.044394119	6.031601988	6.344281925	5.976437038	0.66305311	0.236675116	0.359466238
MAPK12	5.044394119	5.044394119	5.044394119	5.044394119	7.235905764	5.957578011	1.034898512	0.238859474	0.361811268
CLDN23	5.044394119	6.018033628	7.348791373	5.044394119	5.044394119	5.044394119	-1.092678921	0.240123933	0.36275407
SIGLEC10	5.044394119	6.24042605	7.496890012	5.044394119	5.38175663	5.044394119	-1.103721771	0.240710506	0.362670496
IFI30	5.044394119	6.09603614	7.839777726	7.292988541	7.681316912	7.85430874	1.282802069	0.243652872	0.36612732
IDO1	5.044394119	5.935571468	7.268621025	5.044394119	5.044394119	5.044394119	-1.038468085	0.24539953	0.367773831
AURKA	6.537847526	6.754999222	7.226800849	6.784291934	7.42727129	7.510550398	0.400822008	0.249595666	0.373072886
NRP1	5.044394119	6.491964816	7.461266103	5.456487273	5.740210601	5.044394119	-0.918844348	0.251692779	0.375214828
CCL22	5.044394119	6.170036722	7.226800849	5.623137143	5.044394119	5.044394119	-0.90976877	0.251890076	0.374520771
CD274	5.044394119	5.044394119	5.044394119	5.301209048	5.305807777	6.628513735	0.700782734	0.254998725	0.378147716
RPL23	14.52578466	13.92509119	14.08660966	14.24897879	14.47647722	14.95196867	0.379979722	0.255944877	0.378557213
RAE1	8.86734884	8.462818471	9.161705821	8.827619366	9.293571105	9.399648469	0.342988603	0.258682733	0.381607686
ITGAM	7.097274934	6.956633083	7.348791373	10.4407604	8.725711032	6.84920185	1.537657964	0.261764209	0.38514786
NCAPH	8.656242226	8.935571468	9.289085127	8.674667443	9.709222909	10.0803379	0.527776478	0.262822527	0.385700591
CXCL3	5.044394119	6.706089622	7.920697721	5.044394119	5.929244426	5.51700542	-1.060179166	0.266223161	0.389678979
STAT4	9.56138304	9.291052123	10.05820124	9.199329434	8.178503453	9.652165003	-0.626879506	0.267258746	0.390183958
CCL5	6.377382853	6.848108627	5.044394119	8.407831467	10.15974949	12.87502861	4.390907991	0.267319789	0.389267218
CTLA4	13.03727384	12.71847335	12.6530656	13.91214998	13.41517963	12.54174934	0.48675539	0.270793722	0.393312219
ACAD10	7.044807514	7.616292951	5.044394119	8.181627432	7.66621002	6.96703834	1.036460402	0.271579057	0.393441454
MTOR	8.017840467	7.848108627	8.116617931	8.739622885	8.310673532	7.894525841	0.320751744	0.272892398	0.394333005
ITGB2	9.897250326	10.24898806	9.874047628	11.09562491	10.68600556	9.681194052	0.480846169	0.274412227	0.395517623
MAML3	5.044394119	6.402697478	7.997319003	5.163705524	5.183817253	5.51700542	-1.193294135	0.275097073	0.395495791
ITGB8	6.647472017	7.076927317	7.348791373	7.680981217	7.038868917	7.38207584	0.342911755	0.278085864	0.398777953
PTGER2	7.732863508	8.433071127	7.920697721	9.910555707	7.363140952	9.10839419	0.765152831	0.278744673	0.398710735
STK11	8.084335878	8.105496469	7.662899964	8.23838221	8.543437638	7.919103863	0.282730467	0.278811426	0.39779913
SLC3A2	10.46484569	9.967049699	10.34879137	9.806118297	9.864538736	10.29742801	-0.27086724	0.280187858	0.39875602
IL1R1	6.749351631	5.044394119	5.044394119	9.172694307	7.363140952	5.437570952	1.711755447	0.280405861	0.398063597
CCL17	5.044394119	5.044394119	5.044394119	5.268042184	5.305807777	6.869521834	0.770063146	0.285171639	0.403814476
NFAT5	8.301147268	7.836793313	8.387265521	9.041449774	8.409237367	8.221403151	0.38229473	0.285263472	0.402934654
UQCRL10	7.537847526	7.836793313	8.116617931	7.853004685	8.085039098	8.520222132	0.322335715	0.286356269	0.403469556
SRC	5.044394119	5.044394119	5.044394119	5.044394119	5.266279413	6.152593993	0.443361723	0.288949867	0.406111132
PTGS2	5.044394119	6.520533969	5.044394119	5.044394119	7.580170189	9.711058692	1.908766931	0.289240281	0.405510567
PPP3CA	7.813481968	7.477465247	7.424740227	7.616564489	7.782854939	8.628513735	0.43741524	0.291117659	0.40713237
FNIP1	9.071279726	9.028017717	9.339010352	9.286792275	9.183817253	9.915443747	0.31591516	0.292437656	0.407968581
OASL	7.147901007	7.562354144	10.83630553	5.301209048	5.929244426	5.567631493	-2.916158573	0.293201805	0.408027143
IFIT1	5.044394119	6.09603614	8.226800849	5.044394119	5.044394119	5.044394119	-1.411349583	0.294865216	0.409333777
NKG7	6.813481968	7.24042605	7.598769626	6.07059612	9.135273401	11.31420373	1.622465201	0.297859156	0.412476528
MTCP1	5.044394119	6.462818471	5.044394119	6.528277956	5.929244426	6.217445138	0.707786937	0.298832998	0.412813311
TOLLIP	8.732863508	8.569207815	8.709193616	8.760640666	8.699980757	9.390888909	0.280081798	0.301508951	0.415494042
IKZF4	7.479744571	7.616292951	7.309263009	7.93453457	7.296026756	9.040567376	0.621942724	0.304842424	0.41906562
MTHFR	6.682237435	6.802304937	7.461266103	8.168206916	7.627735872	6.732018311	0.527384208	0.30641558	0.420205832
CD33	5.044394119	6.018033628	5.044394119	7.824771004	5.044394119	6.30956334	1.023968865	0.307196268	0.420256396
STAT2	7.537847526	8.007979963	7.693926859	9.313452644	8.526806963	7.193466275	0.59790511	0.308203669	0.420616118
PTGS1	5.044394119	6.170036722	7.461266103	5.044394119	5.344281925	5.818174954	-0.822948648	0.309202262	0.420962115
IFIT2	7.844508864	7.680998641	11.93699953	5.699758424	5.711064256	5.353506687	-3.566059224	0.31904105	0.433312965
IL4	6.611848107	6.402697478	5.044394119	5.044394119	5.044394119	6.135915252	-0.611412071	0.322201511	0.436556004
PTPN6	9.408861085	9.495567053	9.424740227	10.09089088	9.978997461	9.112662521	0.284460833	0.324390449	0.438470344
LIF	5.044394119	6.371670583	5.044394119	6.268042184	6.522619166	9.895764737	2.075322422	0.325931219	0.439501524
DOCK2	10.81544082	10.89931757	10.87743027	11.22332038	11.2681567	10.67326912	0.190852513	0.327175385	0.440128792
NFIL3	7.289920012	7.355903267	8.139338008	7.021686519	8.497233848	10.21347624	0.982411772	0.329573536	0.442301777
GLUD1	10.89354636	10.88839835	11.10512229	10.72289139	11.32336861	11.81096965	0.32338755	0.333173108	0.446073
TSC2	8.366735609	8.541595584	8.368156698	8.991524549	8.584194445	8.342645695	0.213958932	0.335460235	0.448073363
CLCF1	7.147901007	7.09603614	7.839777726	5.044394119	5.954335407	7.709650498	-1.125111617	0.337485363	0.449715166

IL16	10.42691112	10.29105212	9.754047852	11.92425916	10.6605039	9.838933515	0.650561825	0.343705823	0.456926565
SKP1	11.61971635	11.25855998	11.80289611	11.47749555	11.79636056	12.6372433	0.409975656	0.344645314	0.457100006
FOS	11.94007423	12.08830368	14.40055146	10.54740982	12.9751717	7.410090216	-2.498752546	0.346789947	0.45886726
RARG	7.629770015	6.576029081	5.044394119	7.276405657	7.015217649	7.732018311	0.9244828	0.352265472	0.465023346
GZMA	7.22065735	7.813892911	7.754047852	5.044394119	8.963633151	11.93002883	1.049819328	0.352707756	0.464521869
PIK3R2	6.781773108	6.339961723	5.044394119	6.699758424	6.941844462	6.294612998	0.590028978	0.353997187	0.465135838
CRLF2	5.044394119	6.402697478	5.044394119	6.251168365	5.183817253	8.237127504	1.060209135	0.356551029	0.467404482
PRICKLE3	6.716184767	6.956633083	5.044394119	6.636193295	6.810599929	7.217445138	0.649008798	0.357001483	0.466911661
IL3RA	5.044394119	5.044394119	5.044394119	5.044394119	5.38175663	8.851757555	1.381575316	0.36098606	0.471032619
CD8A	6.499373378	6.802304937	5.044394119	5.044394119	6.027091749	5.879575499	-0.465003689	0.365097225	0.475299383
GZMB	6.537847526	6.802304937	5.044394119	5.699758424	9.021166915	15.62048058	3.985619779	0.368636111	0.478803224
GFER	6.537847526	7.205660631	7.309263009	6.31751086	6.725711032	7.084689929	-0.308286448	0.374450474	0.48523972
NR3C1	9.993823586	9.760997963	9.907522332	8.42673993	8.55578603	10.28329769	-0.798840079	0.381230422	0.492895168
GATA3	10.85025285	10.9670497	11.18099716	11.06758737	10.87443154	13.12750301	0.690407406	0.383320679	0.494466173
SMAD5	5.044394119	7.257499563	7.754047852	6.807561714	7.547565523	8.649229712	0.982805138	0.384169014	0.494431647
ATG14	8.22065735	8.057561992	8.368156698	8.772514767	8.003245007	8.500813386	0.210065707	0.389003169	0.499515433
ERAP2	9.295544561	10.39307306	9.84669714	10.614092	11.77891015	8.856855423	0.571514273	0.389133514	0.49854974
MMP9	5.044394119	5.044394119	7.783194197	5.044394119	5.225637428	5.169082116	-0.810956257	0.391286165	0.500173491
SLC7A5	10.1164685	9.509886724	9.953119199	9.712142149	10.14484129	10.54570085	0.274403288	0.391453082	0.499257317
CDC42	11.72454824	11.55891506	11.58020718	11.5478417	11.65333937	12.37543053	0.237647039	0.408974577	0.520429361
TAOK2	7.537847526	7.903391062	7.424740227	8.212464836	7.884256971	7.451117484	0.272868026	0.415566052	0.527628808
RAG2	5.044394119	6.730751676	5.044394119	5.044394119	5.305807777	5.044394119	-0.4749813	0.415787654	0.526726512
TFB2M	8.301147268	8.205660631	9.150565263	8.080182168	8.509982341	8.197490531	-0.28990604	0.417251286	0.527398158
CD8B	5.044394119	6.520533969	7.565602762	6.528277956	5.851241914	5.044394119	-0.568872287	0.420374597	0.530159927
PCCA	6.874882513	6.706089622	5.044394119	7.31751086	7.050550722	6.031578593	0.59142464	0.422427283	0.531562171
MCAT	5.044394119	6.205660631	5.044394119	5.044394119	5.225637428	5.044394119	-0.326674401	0.425399662	0.534112909
ACVR2A	5.044394119	6.892502746	7.631191104	5.79597374	6.266279413	6.464538	-0.347098939	0.426181307	0.533907845
CD84	9.926544633	10.45543894	9.867258462	9.458326273	10.08645838	9.988099956	-0.23878581	0.428406326	0.535507908
IL13	5.044394119	6.977391644	7.309263009	5.044394119	5.38175663	10.61202561	0.56904253	0.436771636	0.544759325
NRL	5.044394119	6.170036722	5.044394119	5.127179648	5.183817253	5.044394119	-0.301144647	0.43740175	0.544343587
TCL1A	5.044394119	6.057561992	5.044394119	5.044394119	5.225637428	5.044394119	-0.277308188	0.437719713	0.543542062
SELL	10.94455604	10.93557147	9.358506528	12.56969788	11.31188741	8.507312023	0.383421094	0.442271934	0.547990445
CCL18	5.044394119	6.371670583	7.693926859	5.089704943	5.344281925	10.5369932	0.620329503	0.443431326	0.548224725
NCAM1	5.044394119	6.655463549	5.044394119	5.044394119	5.38175663	5.10196792	-0.405377706	0.445217663	0.549231396
CASP8	12.49510234	12.51743663	12.80289611	13.09281596	13.27424107	12.12644803	0.226023323	0.445961118	0.54894996
TICAM1	8.699310948	8.534609154	8.647132648	8.489235856	8.897254311	8.802407639	0.102615019	0.446117037	0.5479481
GOT1	6.537847526	6.576029081	5.044394119	6.38093624	6.725711032	6.437570952	0.461982499	0.446844523	0.547651096
IFNG	8.387952095	8.642524493	8.496890012	5.044394119	7.215295484	9.069400058	-1.399425646	0.459319129	0.561721445
TRAT1	10.02123904	10.00797996	9.461266103	10.41731668	9.413767025	10.35530893	0.231969174	0.470919211	0.574663832
CPT1B	7.904629856	8.133510846	8.368156698	8.419206257	7.871141471	6.604468261	-0.503827137	0.478448496	0.582593535
JUN	11.8540695	11.85092364	13.29415612	11.07059612	12.86226205	10.17827454	-0.962672184	0.482024309	0.58568545
SERINC3	10.97115842	10.50274466	10.13933801	10.62559419	10.52261917	11.257509	0.264160424	0.491186358	0.595537107
TPR	9.031386998	9.541595584	8.853583525	9.417316676	9.5205207	9.084689929	0.198653732	0.498963674	0.603671254
TNFRSF10B	7.874882513	7.892502746	8.309263009	8.996595538	7.99722122	7.833771809	0.250313433	0.507628239	0.612841784
OXSM	6.459845014	6.802304937	7.724300508	6.712142149	6.650943263	6.938469188	-0.22829862	0.510955034	0.615542845
IL4R	9.051471245	8.897957176	8.724300508	9.115573028	8.310673532	9.925183497	0.225900376	0.516029184	0.620332955
MT2A	7.518738703	7.170036722	8.161705821	6.301209048	7.732979032	9.650698104	0.27813498	0.51794407	0.62131295
ACOT2	7.499373378	7.706089622	8.406124548	7.37315889	7.596200299	7.985774903	-0.218817819	0.521691438	0.624482336
CD247	10.40105568	10.57772937	10.54021744	10.72594795	10.21918241	10.08468993	-0.163060738	0.53342641	0.637179539
IL37	5.044394119	6.462818471	5.044394119	5.163705524	5.55578603	5.044394119	-0.262573679	0.536064078	0.638979334
CCR8	7.732863508	8.919570989	8.724300508	9.96977175	7.67378324	8.726458785	0.331092923	0.536418589	0.638055796
PTPRC	13.60959213	13.53066437	14.05073	13.8386922	13.74302562	12.81129795	-0.265990243	0.537440668	0.637928524
TRIM22	9.703547941	9.819652181	9.093534318	11.19271661	9.880989257	7.943270174	0.133413867	0.542992486	0.6431672
CXCL8	7.196810608	7.417964235	11.24786246	9.704414787	10.86866899	10.63372068	1.781389049	0.563713229	0.666313754
PIK3C3	9.090819912	8.908804558	9.25827908	9.631311074	9.241012654	8.78111286	0.131844346	0.573773749	0.676789495
MFN2	8.509088533	8.527588726	8.95951697	8.57309646	8.61205425	9.283297685	0.157418055	0.577738985	0.68004693
IRF3	7.699310948	7.859335882	7.53165543	7.971060446	7.658596836	6.38207584	-0.359523046	0.597035457	0.701299445
BID	6.962345354	6.977391644	7.53165543	7.542217147	6.55578603	6.542540512	-0.27694958	0.603723857	0.707684604
CXCL10	5.044394119	6.205660631	5.044394119	5.044394119	5.619916368	5.044394119	-0.195248088	0.604689606	0.707349125
NDUFA6	9.682237435	9.391140447	9.161705821	9.07299861	9.266279413	10.41355407	0.172582797	0.609940146	0.712016906
AREG	6.575322231	5.044394119	7.226800849	5.044394119	5.044394119	7.075972712	-0.560585416	0.619338005	0.721496852
HDAC7	8.479744571	8.718473346	8.709193616	9.288860655	9.118722225	7.764932933	0.088368093	0.625732256	0.727445936
SDHB	9.464845695	9.147316645	9.514377439	9.210283891	9.344281925	9.903175858	0.110400632	0.629062665	0.729816028
TRIM33	10.07782257	9.642524493	9.84669714	10.1893988	9.658596836	10.00541943	0.095456954	0.636851632	0.737338468
LAIR1	6.647472017	7.520533969	5.044394119	7.309382979	5.044394119	5.044394119	-0.604742962	0.63759446	0.736688895
IL12A	5.044394119	6.09603614	7.309263009	5.674667443	6.650943263	5.51700542	-0.202359047	0.639325145	0.737181034
IL18	5.044394119	6.548548345	5.044394119	5.234094852	5.824274866	5.044394119	-0.178190915	0.642139482	0.738918142
AKT2	9.840666797	9.82538855	10.167244	9.817625397	10.01819535	9.808998308	-0.062826766	0.642665596	0.738020451
KLRD1	5.044394119	6.914197817	7.693926859	6.127179648	5.711064256	7.233212454	-0.19368748	0.643344157	0.737301113
ACVR1B	6.813481968	6.371670583	7.724300508	5.199329434	5.681316912	7.748569487	-0.760079075	0.643563897	0.736059923
MMP2	5.044394119	6.520533969	5.044394119	5.163705524	5.183817253	7.217445138	0.318548569	0.645173114	0.736409716

PPARD	6.749351631	6.491964816	5.044394119	6.051230795	5.954335407	6.10196792	-0.059392148	0.646261554	0.736164875
CCR5	5.044394119	6.133510846	5.044394119	6.10856397	5.824274866	5.10196792	0.270835891	0.646427982	0.734872857
CD40LG	10.13854295	8.718473346	8.565602762	7.080182168	7.235905764	10.07269013	-1.011280334	0.658544125	0.747143435
MAP2K2	9.19078682	9.371670583	9.406124548	9.236240124	9.720235902	9.231250937	0.073048337	0.658632924	0.745746698
TNF	10.27005959	9.421755814	11.79397404	10.90652019	10.43174477	9.766288213	-0.127078756	0.665067386	0.751526146
ADORA2A	6.813481968	7.730751676	7.94669293	8.203721203	8.067897965	6.709650498	0.163447697	0.678265184	0.764909839
IKZF2	11.08920163	10.92892615	9.887530857	11.53569992	8.747406103	8.794458885	-0.942697913	0.679801328	0.765115041
ID2	8.537847526	8.60959859	10.22680085	7.485633619	8.938704755	11.10357717	0.051202438	0.680789907	0.764704369
IRF9	10.40886108	10.65546355	11.24262582	11.0098227	10.7993928	9.866997433	-0.21024584	0.682019715	0.764565752
ZAP70	11.02801227	11.32079947	11.19732973	11.84036786	11.61893594	10.21645394	0.043205423	0.683739047	0.764975369
SP100	10.06140948	9.828248204	10.15056526	10.18829116	10.01521765	9.484437557	-0.117425527	0.684669553	0.764502564
PIDD1	6.716184767	6.307540245	5.044394119	7.190505583	6.305807777	5.353506687	0.260566972	0.685622703	0.764056859
TNFSF14	6.611848107	7.655463549	7.693926859	7.760640666	6.325173102	8.237127504	0.120567586	0.697721712	0.776009385
PDK1	8.926544633	9.124233032	9.046228603	9.439829929	9.027091749	7.30956334	-0.44017375	0.699186914	0.776111211
HIF1A	10.97115842	10.61629295	11.34879137	10.17157377	10.31914931	11.55357155	-0.297316039	0.728234262	0.80676933
IKBKE	9.249921944	9.906100349	8.693926859	10.29092607	9.580170189	8.287079326	0.102742145	0.731183294	0.808451196
DHRS4	7.699310948	7.997855746	9.070075345	8.434234466	8.480058704	8.684065087	0.277038739	0.73673629	0.813000008
PTGDR2	6.419203029	6.754999222	5.044394119	6.661956392	5.418282506	5.686930421	-0.150475684	0.736979147	0.811682686
CD38	6.459845014	7.291052123	7.461266103	8.186073337	6.38175663	6.919103863	0.091590197	0.737262891	0.810415435
CD6	9.523539689	10.42553745	10.1561463	9.051230795	10.81488729	10.40052151	0.053805383	0.747277178	0.819828361
XCL1	5.044394119	6.057561992	5.044394119	5.044394119	5.453906416	5.464538	-0.061170565	0.758977033	0.831046054
MDH2	7.682237435	8.205660631	8.647132648	8.177167784	8.543437638	8.22928675	0.138287153	0.760096566	0.83066646
TYK2	9.1291238	9.223148058	9.205427198	9.652349064	8.975937661	8.205505525	-0.241302269	0.761711524	0.830824346
COX7C	9.926544633	9.684158982	9.997319003	9.830462116	9.798527097	10.10732513	0.042763909	0.766925969	0.834900139
LRRC32	7.044807514	6.997855746	7.693926859	8.467486272	7.204878868	5.732018311	-0.110735556	0.767623471	0.834052426
XAF1	7.59370076	8.541595584	7.89422551	8.668325916	7.857905644	5.879575499	-0.541238265	0.772122441	0.837330479
CD28	10.67578241	10.21224328	9.746668321	10.69352647	10.6747271	9.520222132	0.084593897	0.776939898	0.840940694
IL23R	5.044394119	6.307540245	5.044394119	5.456487273	6.471393843	5.044394119	0.19198225	0.781632227	0.844401928
CDKN1A	9.749351631	9.40652934	10.14496256	8.396366281	8.789841369	10.58463185	-0.510001344	0.783964537	0.845305274
CCL23	5.044394119	6.802304937	5.044394119	5.044394119	5.488671834	7.075972712	0.239315163	0.791305636	0.851595589
NEK2	7.122810026	8.520533969	8.768694628	7.404019853	8.484371697	8.349895434	-0.057917213	0.795319276	0.854287816
FCRL3	8.449791349	9.671475867	5.044394119	8.994062271	8.572087842	6.616541093	0.339009957	0.799817678	0.857489541
TBX21	7.377382853	7.402697478	8.479188011	6.623137143	8.325173102	8.474522088	0.05452133	0.800917026	0.857041893
VAV1	9.57525562	9.40652934	8.709193616	9.424860197	9.404693442	8.911774321	-0.043973519	0.804104529	0.858826198
CD68	7.122810026	7.24042605	7.693926859	7.80696418	6.471393843	7.732018311	0.008981879	0.806578424	0.859843037
FAS	10.64966957	10.76548071	9.832824965	10.59916744	10.61205425	9.770346429	-0.088802375	0.806656166	0.858306467
FUT4	7.267199936	7.576029081	7.783194197	7.31751086	7.67378324	7.797113339	0.053994741	0.806765018	0.856808713
IL10RA	12.16259489	12.20675983	11.9547213	12.41092101	11.98813811	11.67001451	-0.085000799	0.813249207	0.862074676
IL21R	9.602802967	8.982534947	8.093534318	9.127179648	9.649023509	8.410090216	0.16914038	0.818104453	0.865597408
ACVR1C	6.575322231	7.24042605	7.348791373	6.609961754	7.246101531	7.144278725	-0.054732548	0.82720564	0.873591003
PML	8.948131495	9.282736854	9.678496819	9.718294376	9.469219472	8.914221642	0.06412344	0.829666858	0.87455555
PIK3R3	5.044394119	6.706089622	7.268621025	6.349572069	6.588207508	7.135915252	0.351530021	0.831732353	0.875100148
STAT3	10.88610977	10.27227492	10.38251199	10.23087095	10.56599623	10.92457669	0.060182397	0.835439797	0.877367073
IFNGR2	7.419203029	7.24042605	7.598769626	8.407831467	6.837821398	6.818174954	-0.064856962	0.835805427	0.876122572
GZMM	7.071279726	7.076927317	7.226800849	6.411633037	7.98509766	6.84920185	-0.043025115	0.83583536	0.874531441
PPT2	5.044394119	6.133510846	5.044394119	5.92924027	5.183817253	5.592293547	0.161017329	0.838464382	0.875660584
CD99	7.904629856	7.987659979	8.226800849	6.542217147	7.40013516	8.838933515	-0.445934954	0.839460598	0.875083465
TOX	8.479744571	9.110203472	8.139338008	7.099165272	9.248639254	8.437570952	-0.314636858	0.844401458	0.878612935
SOS2	7.781773108	8.047780972	8.920697721	7.242656865	7.547565523	9.073785153	-0.295414753	0.84636623	0.879038455
STAT5A	10.25281602	9.696731567	9.825838535	10.00794051	9.89239402	10.02706311	0.050670508	0.866660593	0.898464651
IFNGR1	9.00416553	8.853733176	9.639183895	8.798879471	9.132528024	9.449431107	-0.038747999	0.867895349	0.898096836
NOTCH1	8.345202448	8.562354144	8.268621025	7.718294376	8.167816774	8.879575499	-0.136830323	0.868234422	0.896805208
PRKCD	8.00416553	8.028017717	8.461266103	8.221155796	8.291111266	8.106255279	0.041690997	0.872263057	0.899322313
CXCL2	5.044394119	6.602996129	8.479188011	7.616564489	8.189111552	5.859397617	0.51288318	0.877581513	0.90315766
FASN	9.255704297	8.282736854	8.94669293	9.129489809	9.346652829	8.089028865	0.026679141	0.883473838	0.907568579
STAT5B	10.57763239	10.58620089	10.09353432	10.78722127	10.47897844	10.04056738	0.016466494	0.911889584	0.935059193
HNFI1A	5.044394119	6.24042605	5.044394119	5.79597374	5.851241914	5.044394119	0.120798495	0.92809926	0.94995667
CALM1	9.566044417	9.03298397	9.081852513	8.552583863	9.170495874	9.84664161	-0.037053184	0.930958838	0.951160476
RDH5	5.044394119	6.339961723	5.044394119	5.92924027	5.824274866	5.10196792	0.142244365	0.93158632	0.950083522
CD276	5.044394119	6.371670583	7.268621025	5.089704943	5.619916368	7.66965243	-0.101803996	0.934937009	0.951782721
PLCB2	9.122810026	9.819652181	9.415462413	9.660359607	9.982050785	5.448854286	-0.055553314	0.940306949	0.955527745
CXCR3	8.172563061	8.18795863	7.496890012	7.754666765	8.831064032	6.838933515	-0.144249131	0.941703544	0.95522891
ACSF2	5.044394119	6.82538855	7.268621025	6.864145242	6.754565894	6.396151025	0.292152822	0.945226616	0.957084298
NOD2	5.044394119	6.371670583	5.044394119	5.044394119	6.003245007	5.775739688	0.120973331	0.958908042	0.969200436
ATG7	8.889832854	8.935571468	9.319247098	9.631311074	9.135273401	8.045040852	-0.111008698	0.974188254	0.982886364
RDH14	8.097274934	7.754999222	7.348791373	7.748668025	7.711064256	7.84920185	0.0359562	0.982218594	0.989221935
ALDH8A1	6.844508864	6.680998641	5.044394119	6.68726748	6.604149052	5.592293547	0.104602818	0.984246923	0.98950091
BTBD6	7.518738703	7.718473346	7.565602762	7.419206257	7.747406103	7.622539834	-0.004554206	0.994502744	0.998035613
STAT6	9.844508864	9.715387366	9.358506528	10.25328842	9.749199385	8.406618024	-0.169765644	0.99625977	0.998026188
CX3CR1	5.044394119	6.655463549	5.044394119	6.21681686	5.711064256	5.324360342	0.16932989	0.999770442	0.999770442

Ex vivo vs ExpTregx5

Gene	ex vivo Treg	ex vivo Treg	ex vivo Treg	expTreg x6	expTreg x6	expTreg x5	log2FC	p-value	FDR
ACADVL	10.63864817	10.59126002	10.54872894	12.45810309	12.36489558	12.27194875	1.772103428	7.66236E-06	0.004152997
KLRG1	7.479744571	7.680998641	7.81176335	5.044394119	5.044394119	5.044394119	-2.613108068	1.10871E-05	0.003004615
FKBP1A	5.044394119	5.044394119	5.044394119	7.229718355	6.980288995	7.248815788	2.108546926	1.6806E-05	0.003036276
TCF7	9.840666797	9.201255452	9.514377439	5.044394119	5.044394119	5.044394119	-4.474372444	1.71867E-05	0.002328797
TRIM25	8.084335878	8.076927317	8.116617931	8.682230559	8.706990099	8.762006407	0.624448646	1.93374E-05	0.002096177
SIK1	10.86545926	10.53285725	11.51654854	5.044394119	5.484055413	5.044394119	-5.780673798	5.79461E-05	0.005234463
LEF1	10.54021843	10.84104696	9.761389827	5.105173257	5.044394119	5.044394119	-5.316231241	7.91335E-05	0.006127194
CCL20	9.643066838	8.997855746	9.914125067	5.044394119	5.044394119	5.044394119	-4.473955098	7.9706E-05	0.00540008
IL7R	10.28709949	9.9748131	9.319247098	5.044394119	5.044394119	5.370656911	-4.70723818	0.000103155	0.006212241
SMC2	7.59370076	7.892502746	8.093534318	10.44122246	10.28052202	10.56797745	2.569994701	0.00010487	0.005683955
HSPA9	9.871120594	9.799393342	9.818818107	9.364260478	9.28815246	9.357900903	-0.493006067	0.000109451	0.005392969
LAMP2	8.682237435	8.730751676	8.73925085	11.34811306	10.86548452	10.90082967	2.320729095	0.000119902	0.005415584
PKM	10.13541006	9.9748131	9.443118756	13.06678899	12.91182036	13.05577583	3.160347754	0.000124815	0.005203818
GZMK	7.267199936	7.813892911	7.783194197	5.044394119	5.044394119	5.044394119	-2.577034895	0.000130398	0.00504827
LDHA	10.65405467	10.44056566	10.7903897	12.10110255	12.09969473	12.12253095	-4.473955098	0.000131727	0.0054759746
ALDOA	11.04814323	10.98125084	10.80111611	12.46690135	12.23344854	12.32747273	1.399104151	0.000152596	0.005169198
NAA20	7.699310948	7.642524493	7.81176335	9.161699931	9.00827749	8.873754764	1.296711132	0.00018043	0.005752543
PGAM1	10.88797251	10.57942766	10.39200344	12.56715582	12.51655071	12.42609212	1.883465014	0.00023369	0.007036657
FH	7.813481968	8.057561992	8.247862464	10.0471108	9.843458213	9.788865867	1.853509485	0.000235443	0.006716323
NDUFA4	9.801672666	9.684158982	10.07597595	12.24623344	11.96914322	11.78767739	2.147082152	0.000263732	0.007147145
IL18BP	6.99035973	7.057561992	7.461266103	5.218830039	5.044394119	5.286998982	-1.986321562	0.000265568	0.006854194
TNFRSF11A	5.044394119	6.09603614	5.044394119	10.16808198	9.702918137	9.92394818	4.536707973	0.00026892	0.00662522
GNAI2	11.61410056	11.63519495	11.40612455	12.99899695	12.75576415	12.76394161	1.287760885	0.000285257	0.006722153
ATP6V1F	9.301147268	9.24042605	9.226800849	10.41224339	10.35403069	10.13005284	1.042650918	0.000303668	0.006857834
PLCG1	11.01954076	11.14387756	11.32421335	9.682230559	9.900041741	9.624986928	-1.426790813	0.000304054	0.006591892
NDUFA1	10.54494858	10.44987942	10.26862102	12.19489506	11.83789869	11.90609659	1.558480438	0.000332554	0.006932471
CISH	6.749351631	6.730751676	7.348791373	9.795572033	9.618103378	10.14126265	2.908681126	0.00033467	0.006718188
NCAPG2	7.439667132	7.520533969	7.920697721	9.433001953	9.408055254	9.630300727	1.863486371	0.000346049	0.006698511
MX1	8.98340697	9.307540245	9.933753874	5.744291528	6.022724261	5.449728482	-3.669318939	0.000347755	0.00649943
COX6B1	9.972914596	10.19683678	9.940237908	11.84752411	11.55985824	11.46348848	1.586960515	0.000352536	0.006369154
IL12RB2	8.398444469	8.448021469	8.678496819	10.0647002	10.27504689	9.894218867	1.569667732	0.000359463	0.006284801
CCR3	6.904629856	6.706089622	7.309263009	5.044394119	5.044394119	5.044394119	-1.928933376	0.00040675	0.006889335
CCR6	9.135410063	9.236125912	9.150565263	5.044394119	6.12365317	5.103552841	-3.750167036	0.000438169	0.007196588
IRF3	7.699310948	7.859335882	7.53165543	6.697997875	6.607686762	6.578461796	-1.068718609	0.000455088	0.007254643
EBI3	5.044394119	5.044394119	5.044394119	9.593342651	8.527068302	9.936871782	4.308033459	0.000530466	0.00821464
COX5B	10.08758154	9.969642144	9.804673925	11.62564703	11.28597645	11.27109856	1.440274811	0.000530587	0.007988281
NDUFAB1	9.272913587	8.77292113	8.709193616	11.11804962	10.99501733	10.78886587	2.048968162	0.00053657	0.007860027
UQCRCQ	8.312287825	8.223148058	7.496890012	11.31078626	10.93309543	10.82175191	3.011102565	0.000537239	0.007662728
SLC25A20	7.647472017	7.82538855	7.496890012	9.601748763	9.850837743	9.265303911	1.916046613	0.000594549	0.008262702
IL33	7.172563061	7.371670583	8.021981057	5.044394119	5.044394119	5.044394119	-2.477677448	0.000642346	0.008703785
NEDD8	8.911971832	8.997855746	8.329162567	11.08170217	10.95071687	10.77645756	2.189962154	0.000655631	0.008667124
GART	8.499373378	8.160991582	8.268621025	9.913372601	9.719943676	9.538322405	1.414217566	0.000657341	0.00848283
MTHFD1	8.017840467	8.214430841	7.783194197	10.59176104	10.22367616	9.900389891	2.23345386	0.000688913	0.008683513
PSMA3	9.454826939	9.218796034	8.907522332	10.83932759	10.69596932	10.70824741	1.554133002	0.000708186	0.008723569
PYCR2	8.789765899	8.802304937	8.268621025	10.72325783	10.42644645	10.41935483	1.902789082	0.000712866	0.008586071
NSD2	9.184737775	9.124233032	9.319247098	10.61841546	10.34830673	10.82035777	1.386287354	0.000730965	0.008612676
HMGCR	7.575322231	7.417964235	7.94669293	9.645094793	9.316145928	9.284304873	1.768522066	0.000812804	0.009373192
VAV3	8.184737775	8.636011186	9.205427198	5.044394119	5.759689855	5.044394119	-3.392566022	0.000866357	0.009782616
NME1	6.933776202	7.114895167	7.387265521	10.02540407	10.21683873	9.317624946	2.707976951	0.000873154	0.009658157
JAK1	11.55436261	11.60882857	12.01431936	10.44122246	10.337841	10.45333072	-1.315038788	0.000924973	0.010026711
CD4	8.656242226	8.819652181	8.309263009	11.52261079	11.56592424	10.74496171	2.682779773	0.000936032	0.009947631
ADD1	9.58912803	9.5520122	9.150565263	10.93806327	10.77722451	11.12892705	1.517503115	0.000938434	0.009781375
BUB1	6.682237435	7.257499563	7.461266103	9.749029447	9.614639522	9.24050052	2.401055463	0.000994889	0.010174143
PYCR1	5.044394119	5.044394119	5.044394119	6.324183039	6.152604544	5.893335133	1.078980119	0.000997501	0.010011954
JUNB	12.53903346	12.7379928	13.62214596	9.370423217	9.19032421	9.968263621	-3.456720393	0.001059091	0.010436859
JAK2	7.781773108	8.133510846	8.161705821	9.747136146	9.891479728	9.3757279	1.645784666	0.001107329	0.010717366
PSMA6	8.948131495	8.748975435	8.582281503	10.45520669	10.23950526	9.973290438	1.462871318	0.001118586	0.010636382
GFM1	7.948131495	8.142729376	8.247862464	8.93930751	9.004312224	9.166353628	0.923750009	0.001129392	0.01055397
LAMP1	10.42177697	10.36774488	10.26345932	11.30404093	11.1297328	11.0145131	0.798435221	0.001147673	0.010543027
CBR4	7.419203029	7.706089622	7.424740227	9.015213843	8.588392072	8.805872292	1.286481777	0.00116261	0.010502241
CTSD	7.797714652	8.067277147	8.021981057	9.540758134	9.595438216	10.17219451	1.807139333	0.00116629	0.010362776
ATP5MF	8.889832854	8.724625573	7.997319003	11.14346262	10.82783723	10.8548132	2.404778541	0.001187973	0.010385181
RDH10	7.044807514	7.076927317	8.070075345	10.80470304	11.45964699	12.045073	4.039204285	0.00119522	0.01028269
NMT1	9.19078682	9.067277147	9.183732127	10.18426454	9.985662167	10.40392479	1.044018467	0.00120288	0.010186888
USP15	11.57416576	11.66028593	11.8345663	9.424734337	9.621558936	10.18741524	-1.945103159	0.001281909	0.010689148
MAGED1	7.99035973	7.813892911	7.997319003	8.996209901	8.91701482	8.663853287	0.925168788	0.001375856	0.011298695
FOXO1	10.86167266	10.87877576	11.20003394	9.200959362	9.422984966	8.714765241	-1.867257596	0.001387788	0.011226586
IL2RA	11.48221283	11.26490615	10.3681567	13.90639129	14.56964667	14.76143139	3.37406456	0.00140232	0.011177318

ADAR	10.74524723	10.51876488	10.3681567	11.61478604	11.47238132	11.43279809	0.962598881	0.001427417	0.011212468
COX6C	10.42177697	10.05999692	10.13369144	12.50184822	12.11601742	11.73537729	1.912592531	0.001504597	0.011649877
PKD1	8.926544633	9.124233032	9.046228603	7.637960293	8.121214124	7.842961611	-1.164956747	0.001533869	0.01170925
COX7A2	10.04480751	9.867699355	9.488066162	11.86748721	11.54127764	11.30671417	1.771635333	0.001556478	0.011716817
VSIR	8.897250326	8.802304937	8.920697721	5.044394119	5.902884491	6.420582136	-3.084130746	0.001565702	0.0116248
COX7B	10.55201486	10.32788889	10.12233158	11.76338474	11.53212636	11.40795251	1.233742759	0.001595479	0.011685807
HLA-DRA	9.232434517	8.569207815	9.655037846	16.27999664	14.27360622	14.12281373	5.739912136	0.001677673	0.012123984
SGK3	7.919276632	7.477465247	7.631191104	5.902356374	5.044394119	5.663853287	-2.139109734	0.001722152	0.012281666
SRR	5.044394119	5.044394119	5.044394119	6.540758134	5.991015401	6.487696332	1.29542917	0.001779429	0.012525331
PARP1	8.387952095	8.355903267	7.920697721	10.84906958	10.61290447	9.954772511	2.25073116	0.001844318	0.012815646
FYN	11.93827759	11.52230089	11.47472836	8.604888471	9.100314044	9.708749825	-2.50711817	0.002043735	0.014021577
SERINC1	12.0498082	11.87601462	12.20003394	11.18985097	10.99401789	11.27483567	-0.889050741	0.002077971	0.014078251
PIK3R1	10.89539953	11.13351085	11.76687189	8.334307256	8.162127318	9.089732346	-2.736538449	0.002084512	0.013948218
CD80	7.244116322	7.387267438	7.724300508	10.31845679	10.48737359	11.77357889	3.407908333	0.002095436	0.01385032
PSMA2	10.1998131	9.908804558	9.461266103	11.93536373	11.67096459	11.41720454	1.817883035	0.002257674	0.01474288
NCAPH	8.656242226	8.935571468	9.289085127	10.23378038	10.2601594	10.47061585	1.361218936	0.002338419	0.015088368
TFDP1	7.377382853	7.642524493	7.867258462	10.41820495	10.38993324	9.423033615	2.448001998	0.002354047	0.015010512
CASP3	9.172563061	8.972229939	9.150565263	12.41030057	12.25321467	11.11155407	2.826570352	0.002409754	0.015187054
WAS	9.097274934	9.223148058	9.070075345	9.951691234	9.758905569	9.663853287	0.661317251	0.002411725	0.015024771
NFATC1	9.328839001	8.831102201	9.046228603	5.915902906	5.902884491	7.053799805	-2.777860868	0.002427492	0.014951142
BATF3	5.044394119	6.307540245	5.044394119	10.09702032	9.191487204	11.07070581	4.654294952	0.00247464	0.015070278
FCGR3A	6.99035973	7.534609154	8.309263009	5.044394119	5.044394119	5.044394119	-2.567016512	0.002570211	0.015478379
MIK167	6.537847526	6.371670583	5.044394119	9.035522825	9.229349367	9.288344152	3.199768039	0.002604557	0.015512854
TIMM23	8.732863508	8.616292951	8.853583525	9.881795051	9.653136486	9.459314531	0.930502028	0.002660494	0.015673782
CD45RA	10.02462963	9.291052123	10.96588649	5.902356374	6.536251624	6.813366829	-3.676531141	0.002687399	0.015662046
TGFBR1	8.345202448	8.331924404	8.631191104	10.739538	11.16656957	12.21420203	2.937330549	0.002817828	0.016247479
IL7	6.377382853	6.655463549	7.268621025	5.044394119	5.044394119	5.044394119	-1.72276169	0.00281898	0.016083023
NRF1	7.244116322	7.448021469	7.693926859	6.505352797	6.32359074	6.587232006	-0.989963036	0.002840087	0.016034659
TP53	8.757525562	8.864916914	8.387265521	11.15421835	10.69268767	10.20532825	2.014175423	0.002887879	0.016136396
STAT1	10.43202707	10.62782798	9.880804994	14.06731072	13.6391932	12.6118848	3.125909557	0.003012427	0.016660566
CCL11	6.682237435	7.114895167	7.839777726	5.044394119	5.044394119	5.044394119	-2.167909323	0.003025894	0.016566003
IL32	12.70037136	12.69594898	10.9785418	16.03980673	15.97097509	15.6444361	3.760118593	0.003032444	0.016435848
SOC52	7.172563061	7.987659979	8.268621025	10.79923138	12.26126746	12.54311964	4.058258135	0.003033791	0.016280341
PYCR3	5.044394119	5.044394119	5.044394119	5.383889285	5.389933235	5.578461796	0.406367319	0.00312913	0.016627339
RELA	9.844508864	9.516993611	9.573966235	8.701912925	8.88717959	8.955619412	-0.796918928	0.003225014	0.01697046
CCL5	6.377382853	6.848108627	5.044394119	11.88567269	10.65060174	13.26931152	5.845233447	0.003265487	0.017018213
ARAF	7.556706553	7.655463549	7.754047852	6.364260478	6.550824425	6.900389891	-1.05024772	0.003275903	0.016909897
MS4A4A	6.647472017	6.892502746	7.724300508	5.044394119	5.044394119	5.044394119	-2.043697638	0.003299393	0.016870483
PKC2	7.172563061	7.223148058	7.424740227	8.253920703	8.069017913	7.900389891	0.800959054	0.003315966	0.016796761
IL17F	6.647472017	7.506320109	7.920697721	5.044394119	5.044394119	5.044394119	-2.313769163	0.003501627	0.01757298
ATP5PD	8.86734884	8.636011186	8.598769626	10.09478877	9.731183428	9.561872556	1.095238368	0.00355784	0.017691277
CTNNA1	7.518738703	8.142729376	8.205427198	10.0293043	10.34726357	11.22758651	2.579086367	0.00356905	0.017585684
PKD3	7.962345354	7.448021469	7.662899964	9.135885614	8.684037648	8.900389891	1.215682122	0.003578164	0.017471757
GPI	8.897250326	9.128879397	9.289085127	10.85215556	10.73836301	10.16048901	1.478597577	0.003657581	0.017700079
ZBTB16	7.267199936	7.24042605	8.070075345	5.044394119	5.784564524	5.044394119	-2.234782856	0.003691388	0.017705596
APC	7.459845014	7.642524493	7.754047852	6.968851786	6.868396115	7.085095936	-0.644691174	0.003716733	0.017670785
TGFB1	10.7897659	10.70608962	11.47025489	9.471352126	9.554444741	9.254332793	-1.561993582	0.003756085	0.017702594
IRF7	8.80561985	8.520533969	8.972228022	6.558140212	6.543556424	7.440078312	-1.918868964	0.004092766	0.019123094
UBE2I	9.449791349	9.429309209	8.997319003	10.22360379	10.17217686	10.1217766	0.880379231	0.004252702	0.019700552
CHMP4A	10.18473778	9.995313552	9.874047628	10.75845886	10.63316072	10.95900205	0.765507557	0.004284112	0.019677871
IL1A	5.044394119	6.602996129	5.044394119	10.69750775	8.940723247	10.64086997	4.529105532	0.004294846	0.019561401
DAP3	9.976420539	9.819652181	9.670719468	10.5053528	10.38942658	10.6767507	0.701579297	0.00446204	0.020153546
PFKP	8.997279144	8.813892911	9.309263009	10.32036807	10.18098635	9.895984712	1.092301352	0.004631684	0.020746884
NDUFB9	9.00416553	8.919570989	9.105122292	10.34310804	10.22538046	9.740546044	1.093391912	0.004700408	0.020882141
SMAD2	9.196810608	8.892502746	8.387265521	10.33682725	10.10772516	10.49645235	1.488141962	0.004719237	0.020795338
MYC	9.110098974	8.562354144	9.226800849	10.51428592	10.37670208	10.09127451	1.361002847	0.004750297	0.020763393
RORA	11.51994045	11.0117583	11.54021744	9.525375101	9.807501335	8.788865867	-1.983391297	0.004752873	0.020608458
NME2	11.49815437	11.15074755	10.64713265	13.95564193	13.30839451	12.86273576	2.276912546	0.004795795	0.020629532
IFITM3	8.289920012	8.668287589	9.631191104	5.282960376	5.586625146	6.50631201	-3.071167058	0.004810114	0.020528201
IKZF4	7.479744571	7.616292951	7.309263009	8.422363433	8.43776176	8.979133006	1.144652556	0.004911211	0.020795908
ENTPD1	8.797714652	9.484733247	7.693926859	11.75398757	11.68155666	12.59852704	3.352565504	0.004999573	0.021005957
IFNA1	7.071279726	7.94614071	8.907522332	5.044394119	5.044394119	5.044394119	-2.930586803	0.005236275	0.02183124
CCR2	6.749351631	7.018033628	7.348791373	5.044394119	5.044394119	5.835619635	-1.730589586	0.005386954	0.022288008
SH2D1A	8.682237435	8.462818471	8.406124548	10.54239663	10.05119092	9.606772192	1.549726428	0.005413827	0.0222295
HADHB	8.940971703	8.712294771	8.387265521	10.71407943	10.3409887	9.852996204	1.622510778	0.005431961	0.022136263
CD14	6.575322231	6.307540245	7.348791373	5.044394119	5.044394119	5.044394119	-1.699490497	0.005528307	0.022360763
LAG3	6.99035973	5.935571468	5.044394119	11.66328027	12.22722453	9.679316405	5.19983196	0.005539272	0.02223915
NOTCH2	8.267199936	7.94614071	7.226800849	9.871403445	9.627586319	10.51897236	2.192606877	0.005722283	0.022804979
CCNC	8.398444469	8.274373381	7.754047852	10.02384102	9.816574919	9.288344152	1.56729813	0.0060198	0.023815557
CXCL11	6.459845014	7.057561992	7.81176335	5.044394119	5.044394119	5.044394119	-2.065329332	0.006168722	0.024227877

PHGDH	5.044394119	5.044394119	5.044394119	8.160277856	6.902884491	6.835619635	2.255199875	0.006361246	0.024804282
TKT	9.090819912	9.037933186	9.161705821	10.82324287	10.25516257	10.0145131	1.26748654	0.006390328	0.0247397
CSF3R	6.575322231	6.935571468	7.920697721	5.044394119	5.044394119	5.044394119	-2.099469687	0.006421799	0.024685214
ALDH3A2	8.732863508	8.548548345	8.839777726	9.218830039	9.588392072	9.485352392	0.723794975	0.006506435	0.024834421
PPAT	8.017840467	8.440565664	8.368156698	9.344360921	8.976245942	9.132301779	0.875448604	0.006545973	0.02481061
NCAPD2	8.071279726	8.642524493	8.514377439	10.57317961	10.51689867	9.621789228	1.827895283	0.006644344	0.025008571
MAPK3	8.00416553	7.987659979	7.226800849	9.834431812	9.276143578	9.182359486	1.691436173	0.006667397	0.02492227
CIITA	5.044394119	6.24042605	5.044394119	9.491848533	7.977594886	8.270758341	3.136995824	0.006838816	0.025387933
MIF	9.424346332	9.315714177	8.662899964	11.4972091	11.04894697	10.51150468	1.884900092	0.007086041	0.026126762
TOMM6	8.312287825	8.160991582	7.565602762	9.642041469	9.349870065	9.139773029	1.364267465	0.007260555	0.026589331
SP100	10.06140948	9.828248204	10.15056526	9.55164645	9.507590927	9.416897089	-0.521362828	0.00741038	0.02695588
GADD45B	11.42306222	11.51964969	13.15753819	7.329254028	7.805983508	9.166353628	-3.932886314	0.007510142	0.027136648
MAF	9.809556265	9.745954083	9.804673925	11.10110255	11.8341804	10.84250383	1.472534169	0.007780989	0.027929113
SCD	7.267199936	7.205660631	8.205427198	11.33241437	9.75261588	10.12855159	2.845098026	0.007815476	0.027868342
TLR2	6.647472017	6.491964816	7.724300508	5.044394119	5.044394119	5.044394119	-1.910184994	0.007873452	0.027891576
TPSAB1	6.377382853	7.223148058	7.867258462	5.044394119	5.044394119	5.044394119	-2.111535672	0.008075288	0.028420819
PGK1	11.36272255	11.07556199	10.7903897	12.63309885	12.51062254	13.58065935	1.364267465	0.008142411	0.028472174
CS	10.04480751	9.754999222	9.887530857	11.180762	10.78994916	10.57515917	0.952844244	0.008279563	0.028766175
IFI35	5.044394119	6.307540245	5.044394119	7.553814286	7.688986864	7.405785134	2.084085933	0.008285618	0.028603855
KIR3DL1	8.267199936	9.196836781	10.33409486	5.044394119	6.001662646	6.390834793	-3.453746674	0.008634049	0.029618068
ZAP70	11.02801227	11.32079947	11.19732973	10.6476343	10.74669429	10.46289294	-0.562973312	0.009050016	0.03084974
BCL2L1	6.874882513	7.491964816	5.044394119	9.820094352	9.968125686	10.7600686	3.712349064	0.009344336	0.03165394
CASP8	12.49510234	12.51743663	12.80289611	11.92430535	11.85891187	11.4211954	-0.870340824	0.009532008	0.032089122
IRF5	5.044394119	6.576029081	5.044394119	8.331782855	7.781478544	8.866568224	2.771670767	0.009827163	0.032878532
IL23A	8.071279726	8.196836781	9.021981057	5.846861261	6.996348846	6.318941874	-2.042648527	0.010297635	0.034241214
PDHA1	8.184737775	7.616292951	8.070075345	8.798317409	8.684037648	8.830088529	0.813779172	0.010474169	0.03461585
KLRB1	10.65186379	9.417964235	9.39672585	5.666289016	6.271751809	7.684434165	-3.281359627	0.01074966	0.035311005
MAX	11.79771465	11.51433263	11.13369144	10.62822097	10.60332421	10.62498693	-0.863068872	0.010966418	0.035806016
SHMT1	5.044394119	6.274373381	5.044394119	7.744291528	7.26734663	7.265303911	1.971260149	0.010976804	0.035625316
HLA-DRB1	9.937378439	9.645770153	10.88753086	14.1377836	12.29411962	12.89807885	2.953100874	0.011012428	0.035528189
MTHFD2	9.110098974	8.808110559	9.27888936	10.14094137	10.37976621	11.14646423	1.490024306	0.011047967	0.035431942
BCL6	9.103701203	8.649008527	9.716766836	5.044394119	5.271751809	7.198189715	-3.318380308	0.01146955	0.036567624
CD9	5.044394119	5.044394119	5.044394119	7.134437851	8.871301846	9.946276049	3.606277796	0.011669756	0.03698835
IDH3A	8.86734884	8.371670583	8.348791373	10.25658496	9.959959466	9.387072874	1.338602168	0.011949012	0.037653282
CD226	8.489592357	9.110203472	8.116617931	10.41641907	10.60681531	9.752291252	1.686370622	0.012263118	0.038419711
SOCS4	8.707772527	8.636011186	8.183732127	9.30629288	9.33521266	9.135294923	0.749761541	0.012926625	0.040265695
PPIA	13.15719875	13.06999779	12.83804267	15.16830307	14.73412939	13.93306059	1.590084612	0.013155323	0.040743914
RBX1	10.1447884	9.75800171	9.046228603	11.3171812	11.00133111	10.95392511	1.441139569	0.013453635	0.041431079
SMURF1	8.682237435	8.347954514	8.693926859	7.829071948	7.204218651	7.779330505	-0.970499235	0.013555397	0.041508615
COX19	8.356009203	8.067277147	7.631191104	7.093299157	6.688986864	7.103552841	-1.056212864	0.013614274	0.041454699
LTA	8.566044417	8.534609154	9.991087049	13.40445635	12.55320128	11.19532438	3.353747132	0.01394777	0.042232912
ACACA	5.044394119	5.044394119	5.044394119	6.196803732	5.600700332	6.430363157	1.031561621	0.013960688	0.042037182
KLF2	12.65295964	12.97384496	13.38963643	9.889539928	11.22310761	8.826389309	-3.025801393	0.014016886	0.041973215
LILRB3	6.874882513	7.402697478	8.116617931	5.044394119	5.044394119	6.078890786	-2.075506299	0.014091862	0.041965874
IRF1	9.690799448	9.754999222	11.22945043	6.583826855	7.138201479	8.237718079	-2.905167562	0.014195521	0.042043566
RPTOR	6.682237435	6.730751676	5.044394119	8.65016935	8.642120259	8.254332793	2.363079724	0.014258548	0.042000722
CD3D	11.59825904	11.26067847	10.54447947	13.3919393	12.89576709	12.38785742	1.757382271	0.014423244	0.042256206
AURKA	6.537847526	6.754999222	7.226800849	7.807431116	7.600700332	8.034690983	0.974391611	0.015110697	0.044032247
SLC3A2	10.46484569	9.967049699	10.34879137	9.160277856	9.601575488	9.536059354	-0.827591357	0.015325688	0.044419908
DECR1	8.749351631	8.724625573	7.496890012	10.56943443	10.52982944	9.783152216	1.970516291	0.01543227	0.044490906
CTNNB1	11.18927694	10.86491691	10.96906074	11.51567674	11.55376662	11.94264985	0.662946205	0.016407722	0.047052833
PSPH	5.044394119	5.044394119	5.044394119	5.846861261	5.406052901	6.002269505	0.70733377	0.01666072	0.047526896
GLS	11.76362576	11.62782798	11.95951697	10.40084811	10.82821113	11.18993649	-0.977324992	0.016844333	0.047799103
MPC2	8.690799448	8.62946834	9.247862464	10.37961825	9.976920571	9.632420779	1.140276448	0.017483342	0.049354017
CCL4	5.044394119	5.044394119	5.044394119	8.391181777	11.25794072	13.868312	6.128084048	0.017926422	0.050342594
SGO2	6.459845014	7.018033628	5.044394119	8.30629288	8.563455982	8.533792747	2.293756282	0.018020541	0.050346048
CCL3	7.071279726	7.448021469	8.783194197	10.33430726	12.21269202	13.79402439	4.346176092	0.018191736	0.050563696
GRK2	10.27576195	10.35788363	10.86385186	11.82996664	11.37644644	11.23388344	0.980933027	0.018855791	0.052142035
MAP2K7	8.836814472	8.842462064	9.406124548	7.885242353	7.964048354	8.405785134	-0.943441748	0.019234582	0.052919511
MAP3K7	9.135410063	8.961850793	9.046228603	9.346863428	9.467829098	9.727713229	0.466305432	0.019261318	0.052725425
CKAP5	7.398444469	7.323842058	5.044394119	9.535283003	9.414045691	9.567423524	2.916690524	0.019629443	0.053463107
IRF9	10.40886108	10.65546355	11.24262582	9.748083107	9.758120856	9.928268923	-0.957492521	0.019636904	0.053216009
PTPRC	13.60959213	13.53066437	14.05073	12.66854147	12.82624707	13.18948659	-0.835570454	0.020159123	0.054359426
SMARCA4	9.024629632	9.028017717	8.972228022	9.627706553	9.468788656	10.1217766	0.731132146	0.020776716	0.055747426
CPT1A	7.147901007	7.037933186	5.044394119	8.909145539	8.868396115	8.970779219	2.506030854	0.021531357	0.057487662
UBA5	7.732863508	7.94614071	8.424740227	8.871403445	8.955858956	9.566315038	1.096610998	0.021580859	0.057337382
OPA1	9.122810026	8.859335882	9.615071439	10.05478473	10.12060372	9.924813365	0.834328154	0.021843501	0.057752086
CCR4	10.99900382	10.94086577	10.30424493	12.30693565	12.29032519	11.48065305	1.277933124	0.022145	0.058265
IL2RG	12.0110192	11.82395659	10.87743027	12.80413405	12.89532108	12.79420194	1.260417002	0.023223908	0.060808493
COX4I1	11.48467687	11.09128261	11.26345932	12.25358732	11.78841274	11.81453434	0.67237187	0.023650218	0.061627011

RAC2	9.419203029	9.715387366	8.070075345	11.44414704	11.39145213	10.56131628	2.064083237	0.023805316	0.061734359
TIMM17A	9.289920012	9.023034309	9.25827908	9.460993681	9.556251497	9.492372819	0.312794865	0.02433308	0.062802522
ICOS	11.6397541	11.03669747	10.59466523	9.600700674	10.18624633	9.347614264	-1.378851846	0.024443147	0.062787609
TIGIT	10.07127973	10.1790255	8.479188011	11.40295402	11.48405541	11.75180377	1.96977332	0.02444415	0.062494007
CPT1B	7.904629856	8.133510846	8.368156698	6.218830039	6.953118794	7.400818881	-1.277843229	0.025882146	0.065859733
OAS3	5.044394119	6.778845964	5.044394119	7.637960293	7.468788656	8.295051254	2.178055333	0.025971902	0.065779302
ITGAM	7.097274934	6.956633083	7.348791373	7.70581738	8.660714125	8.133799128	1.032543747	0.02598178	0.065498254
TNFRSF6B	7.244116322	7.562354144	8.116617931	5.71359473	5.389933235	6.767804251	-1.683918727	0.02601781	0.065285432
PRDM1	9.769700276	9.799393342	10.09933994	10.20992237	10.37670208	10.28093015	0.399707012	0.026042597	0.065046486
OAT	9.62083689	9.355903267	10.5230423	8.652194186	8.420011358	8.694615541	-1.244320457	0.02668686	0.066349901
FOSB	12.37007132	12.40173792	14.04095917	5.633867538	5.784564524	10.39396225	-5.666791366	0.026770466	0.066253847
STAM	11.23828724	10.97610295	11.17276101	8.154575497	9.116323628	10.17583308	-1.980139664	0.028256811	0.069614507
NKG7	6.813481968	7.24042605	7.598769626	8.49410804	9.242874732	10.66333498	2.249213371	0.029102026	0.071372389
NDUFA6	9.682237435	9.391140447	9.161705821	10.25191928	9.91701482	9.925678031	0.619842808	0.029347948	0.071651296
DUSP1	13.35634561	13.58683425	14.67970825	6.261898761	6.32359074	11.55182667	-5.828523981	0.031732256	0.077125035
ACTN1	7.59370076	7.402697478	5.044394119	9.945099812	9.00827749	9.421808396	2.778131113	0.032356845	0.078292009
TGFB2	9.284273449	8.534609154	9.161705821	8.18845639	7.449475181	8.13678917	-1.068622561	0.032503576	0.082972502
UBE2V1	10.81152045	11.1230691	11.07891722	11.54130451	11.38180535	11.27923982	0.396280968	0.032738389	0.078514189
SDHB	9.464845695	9.147316645	9.514377439	10.14094137	9.975570997	9.685455542	0.558476044	0.033702641	0.080470624
PTK2B	10.41662448	10.58620089	10.37295768	9.239178684	9.541733689	10.10736849	-0.829167399	0.034269968	0.081466328
DDIT4	9.570690782	9.745954083	10.45222096	5.44122246	6.453358615	8.626051254	-3.082744499	0.03437826	0.081366885
PSMB10	9.39320782	9.425537455	8.997319003	10.55218871	10.28869595	9.679316405	0.90137893	0.037009564	0.087213843
CD86	5.044394119	6.462818471	5.044394119	9.464454766	8.690632837	6.820822633	2.808101176	0.037469984	0.087916587
PTGER4	10.40886108	10.40461468	11.70919362	8.798317409	8.319341267	9.786963829	-1.872682292	0.037759008	0.088212854
CD69	11.22213476	11.0817283	12.36213291	5.24052511	6.919824354	9.785059281	-4.240195745	0.037787011	0.087899399
OMA1	6.647472017	6.956633083	5.044394119	8.424734337	7.885743358	7.979133006	1.880370494	0.037848099	0.087665256
ATP5MG	9.345202448	9.174538114	9.319247098	9.982595692	9.580423807	9.577361762	0.433797867	0.039996233	0.09224663
CD3E	11.13384106	11.18238191	10.40143285	12.47049176	12.19569522	11.49993993	1.149490359	0.040111099	0.092119557
GLUD1	10.89354636	10.88839835	11.10512229	11.49495444	11.71550399	11.18452841	0.502639949	0.04151432	0.094939922
CMIP	7.172563061	7.18795863	7.387265521	5.874875637	5.8210904	6.893335133	-1.052828681	0.04151962	0.094553084
FUT7	7.976420539	8.355903267	7.920697721	9.877474308	10.28923924	8.63665156	1.516781192	0.042204982	0.095711716
IL2RB	10.22655795	10.19018329	9.226800849	10.67428181	11.28815246	11.85435917	1.391083779	0.042221984	0.095351315
TFRC	10.99382359	10.98253495	11.73739051	12.34420437	11.79090859	12.25278327	0.891382394	0.042239098	0.094994155
HAVCR2	6.813481968	6.997855746	5.044394119	8.035522825	9.398015582	11.20923944	3.262348671	0.04246072	0.095097976
HDAC7	8.479744571	8.718473346	8.709193616	8.102213881	8.431869192	7.952228822	-0.473699879	0.042875611	0.095632021
GNG10	6.459845014	6.655463549	5.044394119	7.417609903	8.130945663	7.473575224	1.620809369	0.04364813	0.096956092
ACSL5	8.449791349	8.62946834	8.247862464	10.58064092	9.36231611	9.234930262	1.283588381	0.044186901	0.097752247
IFIT2	7.844508864	7.680998641	11.93699953	5.196803732	5.044394119	5.198189715	-4.007706491	0.045161865	0.099502972
AKT1	7.976420539	8.248988063	8.662899964	8.930992242	8.847890459	8.841129617	0.577234584	0.045808241	0.100518489
OASL	7.147901007	7.562354144	10.83630553	5.422363433	5.044394119	5.044394119	-3.345136338	0.046349804	0.101296749
CXCR3	8.172563061	8.18795863	7.496890012	7.057078969	7.213407823	7.430363157	-0.718853918	0.046398246	0.100995378
CD247	10.40105568	10.57772937	10.54021744	8.744291528	9.241752448	10.10584344	-1.142371694	0.046579248	0.100983811
SKP1	11.61971635	11.25855998	11.80289611	12.21386909	11.89308898	12.2085291	0.544771576	0.046908976	0.101293485
OAS2	7.99035973	8.87047644	8.724300508	9.814680855	9.537166749	9.117242195	0.961317707	0.047260895	0.101648434
IL6ST	12.45796528	11.64414824	12.74759283	11.30049504	10.87709581	9.660740675	-1.670458275	0.047777182	0.102352698
TNFRSF18	8.647472017	8.730751676	8.479188011	9.435355453	10.24006738	11.67418043	1.83073052	0.04990071	0.106481043
MID1IP1	7.356009203	7.402697478	8.205427198	8.376559743	8.697198013	9.521262352	1.21029541	0.050829188	0.108036941
PPARA	7.289920012	7.223148058	7.387265521	7.729024771	7.547195001	8.148687753	0.508191312	0.051037276	0.108055483
PTGS2	5.044394119	6.520533969	5.044394119	8.24052511	7.547195001	11.38298636	3.520461422	0.051197553	0.107973049
DVL2	7.732863508	7.813892911	7.268621025	8.568898614	8.017487613	8.172194506	0.64773443	0.051821584	0.108865498
EGR1	9.122810026	9.351934365	10.19462044	5.044394119	7.306517227	8.201049369	-2.705801373	0.052906198	0.110714901
MTHFS	7.629770015	7.74292639	7.783194197	8.007325933	8.076591133	8.580659352	0.502895272	0.054228205	0.11304495
PLCB2	9.122810026	9.819652181	9.415462413	8.585946907	8.862567036	9.0169494	-0.630820426	0.057038845	0.118448482
PRKCD	8.00416553	8.028017717	8.461266103	8.907451241	8.567044777	8.529248821	0.50343183	0.05794494	0.11987083
RUNX3	11.69718778	11.57857876	12.16309236	10.47307133	10.21912147	11.45602651	-1.096879865	0.058248797	0.120041248
XAF1	7.59370076	8.541595584	7.89422551	5.422363433	5.682384129	7.468837305	-1.818645663	0.060497006	0.124202186
CDC42	11.72454824	11.55891506	11.58020718	11.91189454	11.9259512	12.45032948	0.474834914	0.061889343	0.126581222
FOS	11.94007423	12.08830368	14.40055146	5.044394119	6.506656842	11.30605025	-5.190609384	0.064708554	0.13184976
LRRC32	7.044807514	6.997855746	7.693926859	5.633867538	6.796842854	5.044394119	-1.420495203	0.06473918	0.13141811
IFI6	5.044394119	6.133510846	5.044394119	7.075302727	6.499162305	6.115727555	1.155964501	0.064998372	0.131451932
COX16	7.196810608	7.754999222	8.368156698	9.371652612	8.918420271	8.365568034	1.111891463	0.067325385	0.13565189
MFN2	8.509088533	8.527588726	8.95951697	9.047880032	9.024030459	9.478297634	0.518004632	0.067827308	0.1366157041
IL6R	8.638648166	8.470160446	7.94669293	7.500865406	6.839012308	5.044394119	-1.890409903	0.068344462	0.136688923
TRIM34	6.874882513	6.914197817	5.044394119	8.207858921	7.928220275	7.510928638	1.604511128	0.068836122	0.137166095
TGIF2	10.29273503	10.06969575	9.978541796	9.686188573	9.712671605	8.938586214	-0.66784206	0.068924663	0.13683944
GRPEL1	7.976420539	7.18795863	8.183732127	7.050952866	7.133368325	6.569637946	-0.864717387	0.069210042	0.136904536
CCL28	7.419203029	7.903391062	7.839777726	8.846861261	8.150213996	8.180911723	0.671871721	0.069858127	0.137684017
NFKB2	12.05313238	11.89931757	12.01278212	10.58964952	9.92542706	11.67906004	-1.257031817	0.070503797	0.138453108
CTNND1	6.682237435	6.892502746	7.348791373	5.044394119	5.044394119	6.663853287	-1.390296676	0.072779711	0.14240651
MAP3K14	9.414041324	9.45543894	10.17276101	9.236482057	8.338366093	8.866568224	-0.866941633	0.072940931	0.142208578

CXCR4	13.60620154	13.50921866	14.44197693	13.30886224	12.67054763	11.83124259	-1.248914889	0.074333767	0.144404666
IL15	6.499373378	6.730751676	7.268621025	5.888681437	5.044394119	6.360461144	-1.068403126	0.075302209	0.145763563
ISG15	9.064707072	9.481103824	9.94669293	8.303718936	8.936567617	7.186694076	-1.355174399	0.076704518	0.147949639
TNFRSF9	9.116468499	9.028017717	8.693926859	9.178656386	10.93309543	10.58449704	1.285945258	0.080085945	0.15392405
PPP2R5D	7.889832854	7.836793313	5.044394119	9.236482057	9.220261494	8.902148203	2.195957156	0.081030485	0.155189127
AFDN	7.377382853	7.589575613	8.709193616	8.919269757	9.002988043	10.68545554	1.643853753	0.081050276	0.154680457
TNFRSF4	7.334314131	7.448021469	5.044394119	8.050952866	8.485952448	9.522405986	2.077527193	0.08134135	0.15469127
ACVR1B	6.813481968	6.371670583	7.724300508	5.196803732	5.044394119	6.478297634	-1.396652525	0.081968053	0.155338058
HDAC8	7.244116322	7.323842058	5.044394119	8.125720634	8.069017913	8.975797293	1.852727781	0.082123002	0.155089432
PTCD1	5.044394119	6.402697478	5.044394119	6.496364014	6.572411287	6.478297634	1.018529073	0.088130744	0.165857164
MT2A	7.518738703	7.170036722	8.161705821	8.4056571	8.180986345	9.341147669	1.025769956	0.089069591	0.167044009
ACVR1C	6.575322231	7.24042605	7.348791373	8.536379693	7.648909425	7.582853565	0.867867676	0.090719875	0.169552318
MAML2	9.651863786	9.433071127	9.573966235	7.013639707	5.721554726	9.213848127	-2.236619529	0.093727447	0.174571396
STAT5A	10.25281602	9.696731567	9.825838535	10.21883004	10.28978232	10.51323142	0.415485887	0.094038619	0.174551134
NFKBIA	13.27931451	13.00955547	14.28080656	11.28947957	11.17423723	13.18804597	-1.639304595	0.096859139	0.179172878
NCR3	5.044394119	7.037933186	5.044394119	7.952513049	8.640417964	6.459314531	1.975174706	0.099665817	0.183737662
CDC26	9.372069053	9.09128261	8.161705821	9.701912925	9.701912925	9.530386145	0.793140795	0.100445137	0.165486658
BID	6.962345354	6.977391644	7.53165543	6.674281806	6.815066612	6.002269505	-0.659924835	0.102688698	0.188031332
TRAF3	10.46484569	10.12190423	10.45675062	10.22087787	9.96948224	9.953925113	-0.299738441	0.102914242	0.187809829
CCL17	5.044394119	5.044394119	5.044394119	8.873140586	5.162127318	8.726721345	2.54293563	0.104143828	0.189415956
UQCRL10	7.537847526	7.836793313	8.116617931	8.70581738	8.579535722	7.969102641	0.587732324	0.105745961	0.191686659
SOC3	8.312287825	8.315714177	8.853583525	8.084329003	7.740748292	8.232137047	-0.474790395	0.109444009	0.197728842
SERPIN9	10.80955626	10.20566063	10.42935685	5.968851786	7.457231625	10.24050052	-2.592663274	0.109588779	0.197332618
STAT6	9.844508864	9.175387366	9.358506528	9.442393004	9.134578132	8.608927077	-0.577501515	0.111251233	0.199662808
IFI30	5.044394119	6.09603614	7.839777726	8.24052511	7.565251495	8.38330112	1.736289913	0.111603908	0.199634714
LAMTOR1	7.097274934	7.257499563	5.044394119	8.148850509	8.001662646	7.663853287	1.471732608	0.112867225	0.201230381
SMAD3	9.629770015	9.35986128	9.216153605	8.060132293	7.575977902	9.3241976	-1.081825702	0.113253096	0.201256322
TET2	9.3067283	8.864916914	9.53165543	9.768760523	9.528909648	9.662816496	0.419062008	0.113889779	0.201726341
ICOSL1	8.509088533	8.410351051	8.709193616	8.093299157	7.315079241	5.449728482	-1.59017544	0.114176089	0.201574724
LIF	5.044394119	6.371670583	5.044394119	8.909145539	6.063946924	11.74471675	3.419116797	0.114408769	0.201329718
CXCR5	6.499373378	6.520533969	5.044394119	5.044394119	5.044394119	5.044394119	-0.977039703	0.116137253	0.203710004
IL21	6.419203029	6.520533969	5.044394119	5.044394119	5.044394119	5.044394119	-0.950316253	0.116618758	0.203894732
IL26	5.044394119	7.307540245	7.598769626	5.044394119	5.044394119	5.044394119	-1.605840544	0.117568075	0.204893558
SHMT2	9.366735609	9.007979963	8.247862464	9.601748763	9.605070814	9.416897089	0.66704621	0.117813807	0.20466373
GOT1	6.537847526	6.576029081	5.044394119	7.026184961	6.931008092	7.265303911	1.021408746	0.117836828	0.204049715
TLR4	6.377382853	6.576029081	5.044394119	5.044394119	5.044394119	5.044394119	-0.954874565	0.118025693	0.203725878
COLEC12	5.044394119	7.09603614	7.496890012	5.044394119	5.044394119	5.044394119	-1.501379305	0.119257409	0.205198462
CEACAM1	5.044394119	6.576029081	5.044394119	6.293376992	7.249590159	9.472392202	2.116847344	0.119318252	0.204653457
CD1A	5.044394119	6.997855746	7.387265521	5.044394119	5.044394119	5.044394119	-1.432111101	0.11937393	0.204103061
IL1RN	5.044394119	5.044394119	5.044394119	5.044394119	6.043482821	5.835619635	0.596771406	0.121450707	0.20700089
IFNAR1	9.85597405	9.391140447	8.514377439	10.25658496	9.758120856	10.23771808	0.830310653	0.122956946	0.208911174
SLC2A1	5.044394119	6.133510846	5.044394119	5.846861261	6.262927959	6.955619412	0.947703182	0.123056584	0.208427089
CPA3	5.044394119	6.935571468	7.53165543	5.044394119	5.044394119	5.044394119	-1.459479553	0.123436157	0.208418682
SEC22B	8.664959443	8.541595584	8.783194197	8.866179438	8.769068188	9.173651038	0.273049813	0.123851511	0.208470555
HACD4	7.99035973	8.223148058	5.044394119	9.779915437	9.943487031	8.220909791	2.228803451	0.127307571	0.213624469
SLC2A2	5.044394119	6.956633083	7.754047852	5.044394119	5.044394119	5.044394119	-1.540630899	0.127819569	0.213821624
JUN	11.8540695	11.85092364	13.29415612	8.500865406	8.552635718	12.26939667	-2.55875049	0.12818066	0.2137659
RPL3	11.9920927	11.46189809	12.35608387	11.74973879	10.9551744	11.01288661	-0.697424948	0.128204612	0.213419999
IL36A	5.044394119	6.548548345	7.226800849	5.044394119	5.044394119	5.044394119	-1.228853652	0.129402472	0.214483609
RORC	7.59370076	6.778845964	5.044394119	5.044394119	5.044394119	5.044394119	-1.427919495	0.130305469	0.215321842
CXCL14	5.044394119	6.680998641	7.461266103	5.044394119	5.044394119	5.044394119	-1.351158835	0.13064155	0.215221033
IL12B	5.044394119	6.87047644	7.754047852	5.044394119	5.044394119	5.044394119	-1.511912018	0.130986631	0.215135619
PRF1	7.419203029	8.387267438	7.348791373	7.821894346	10.33941571	11.71276289	2.2396037	0.132366563	0.216745249
IL20	5.044394119	6.655463549	7.496890012	5.044394119	5.044394119	5.044394119	-1.354521774	0.132883848	0.216936885
PIK3C3	9.090819912	8.908804558	9.25827908	8.410450111	8.630161795	9.036293087	-0.393666186	0.133089059	0.216619429
CCL25	5.044394119	6.576029081	7.387265521	5.044394119	5.044394119	5.044394119	-1.291502121	0.133253539	0.216237778
BATF	9.339768562	9.339961723	9.058201245	9.841547461	10.30759026	9.297725388	0.569643861	0.136671733	0.221122625
FCAR	5.044394119	6.462818471	7.348791373	5.044394119	5.044394119	5.044394119	-1.240940535	0.138137924	0.222829628
PTGDR2	6.419203029	6.754999222	5.044394119	5.044394119	5.217980552	5.044394119	-0.970609193	0.139020699	0.223588187
CD8B	5.044394119	6.520533969	7.565602762	5.044394119	5.044394119	5.044394119	-1.332449497	0.142560497	0.228602927
CCL15	5.044394119	6.433071127	7.424740227	5.044394119	5.044394119	5.044394119	-1.256341038	0.142889303	0.228454283
TYROBP	5.044394119	6.402697478	7.424740227	5.044394119	5.044394119	5.044394119	-1.246216489	0.144949831	0.231067083
CCL8	5.044394119	6.462818471	7.53165543	5.044394119	5.044394119	5.044394119	-1.301895221	0.145008975	0.230483473
DOCK2	10.81544082	10.89931757	10.87743027	11.40445635	10.82895864	11.48065305	0.373959799	0.145477643	0.230552287
CCL19	5.044394119	6.371670583	7.387265521	5.044394119	5.044394119	5.044394119	-1.223382622	0.145636317	0.230130857
GARS	9.897250326	9.488353563	10.29920934	10.56943443	10.30812648	10.19890516	0.46388428	0.147295815	0.232076546
TYK2	9.1291238	9.223148058	9.205427198	8.298557231	8.308662499	9.248815788	-0.567221179	0.147480065	0.23169332
MAPK12	5.044394119	5.044394119	5.044394119	5.902356374	6.593679904	5.044394119	0.802416013	0.147830026	0.23157189
LPAR6	9.817397018	9.828248204	8.514377439	10.5336364	9.700469432	11.02463732	1.032906831	0.15100779	0.235868076
TRIM26	8.323343014	8.661889818	8.972228022	8.53418548	8.056306862	7.478297634	-0.629556959	0.153641154	0.239291683

CCL22	5.044394119	6.170036722	7.226800849	5.044394119	5.044394119	5.044394119	-1.102683111	0.155019481	0.240746587
CD163	5.044394119	6.170036722	7.226800849	5.044394119	5.044394119	5.044394119	-1.102683111	0.155019481	0.240058739
IFNB1	5.044394119	6.307540245	7.496890012	5.044394119	5.044394119	5.044394119	-1.23854734	0.155168465	0.239604866
NPRL3	7.797714652	8.076927317	7.94669293	8.744291528	8.373631423	7.955619412	0.417402488	0.159205112	0.245139689
SIGLEC10	5.044394119	6.24042605	7.496890012	5.044394119	5.044394119	5.053799805	-1.213040712	0.161832099	0.248478747
WDR45	7.797714652	7.766971864	7.867258462	7.878339493	8.048626125	8.556300146	0.350440262	0.163777342	0.25075514
LILRA1	5.044394119	6.602996129	7.754047852	5.044394119	5.044394119	5.286998982	-1.341883627	0.164339853	0.250907606
TOLLIP	8.732863508	8.569207815	8.709193616	8.950868952	8.665743863	8.9091601	0.171502659	0.169704285	0.258370006
SIRPG	7.962345354	8.470160446	7.724300508	9.471352126	9.343606546	7.97245385	0.876868738	0.171963024	0.261075515
SLAMF7	5.044394119	5.044394119	5.044394119	5.044394119	6.96948224	5.893335133	0.924676378	0.17223987	0.260765389
IKBKE	9.249921944	9.906100349	8.693926859	8.573179611	8.819586809	8.688515341	-0.589555797	0.174452495	0.263379532
FAM30A	5.044394119	6.170036722	7.348791373	5.044394119	5.180986345	5.044394119	-1.097815877	0.175046859	0.26354277
NFAT5	8.301147268	7.836793313	8.387265521	8.489585482	8.342559977	8.632420779	0.313120045	0.175295798	0.263186489
CLDN23	5.044394119	6.018033628	7.348791373	5.044394119	5.044394119	5.044394119	-1.092678921	0.177171406	0.265267686
NEK2	7.122810026	8.520533969	8.768694628	9.221559831	9.178642405	8.670058437	0.886074017	0.17745954	0.264967137
CD3G	9.382677153	9.351934365	8.768694628	10.54621256	10.48120517	9.045868532	0.856660042	0.180552419	0.268844535
RPL23	14.52578466	13.92509119	14.08660966	14.63706599	14.48979814	14.36161976	0.316999458	0.181684056	0.269788379
NFIL3	7.289920012	7.355903267	8.139338008	7.803792539	8.742336289	10.96616393	1.575710491	0.181931405	0.269417546
MTHFD1L	7.244116322	7.170036722	7.309263009	9.693089075	9.105259019	6.955619412	1.343517151	0.182060535	0.268874142
IDO1	5.044394119	5.935571468	7.268621025	5.044394119	5.044394119	5.044394119	-1.038468085	0.183370782	0.270073272
KYAT1	5.044394119	6.274373381	5.044394119	6.422363433	6.414045691	5.760068602	0.744438702	0.184645515	0.271213737
SELPLG	6.419203029	6.914197817	5.044394119	6.600700674	7.079106731	8.286998982	1.19633714	0.186566701	0.273295005
ICAM1	7.267199936	7.87047644	7.89422551	8.779915437	7.737567044	10.54733928	1.344306625	0.18698321	0.273166846
ATG14	8.22065735	8.057561992	8.368156698	7.895535108	7.476442229	8.198189715	-0.35873633	0.190218553	0.277146387
IRF6	6.419203029	6.057561992	5.044394119	5.044394119	5.044394119	5.41073435	-0.673878851	0.191482705	0.278240285
RAE1	8.86734884	8.462818471	9.161705821	9.111073858	10.02859286	9.091274511	0.579689366	0.191906203	0.278110059
SLC25A6	11.60053279	11.2858607	11.04020482	12.56796045	12.07973495	11.24397104	0.655022709	0.193193276	0.279228682
ATG7	8.889832854	8.935571468	9.319247098	7.981790841	7.839012308	9.20532825	-0.70617334	0.195196356	0.281373471
CD8A	6.499373378	6.802304937	5.044394119	5.044394119	5.044394119	5.595949223	-0.887111658	0.196417847	0.282383217
MAML3	5.044394119	6.402697478	7.997319003	5.044394119	5.044394119	5.370656911	-1.328321817	0.197440832	0.283102992
IL10RA	12.16259489	12.20675983	11.9547213	9.707765652	10.06901791	12.49047482	-1.352272545	0.197974183	0.283118752
TBX21	7.377382853	7.402697478	8.479188011	8.218830039	8.140611997	9.19962025	0.766597981	0.198511063	0.283139464
CXCL2	5.044394119	6.602996129	8.479188011	9.419988626	8.675751037	7.3757279	1.781629768	0.198989246	0.283076565
CTLA4	13.03727384	12.71847335	12.6530656	10.58647643	13.17717551	10.72969495	-1.3051553	0.199060098	0.282436055
PTGS1	5.044394119	6.170036722	7.461266103	5.044394119	5.044394119	5.370656911	-1.072083931	0.203834496	0.288455083
TICAM1	8.699310948	8.534609154	8.647132648	9.151715843	8.884305695	8.600288158	0.251752315	0.204976531	0.289315832
IFIT1	5.044394119	6.09603614	8.226800849	5.044394119	5.044394119	5.044394119	-1.411349583	0.206126975	0.290183949
NOTCH1	8.345202448	8.562354144	8.268621025	8.063179168	7.888614394	8.418126484	-0.268752523	0.207463271	0.291308531
IRF4	10.81935057	10.23397103	10.82933598	11.45549659	11.5759779	10.55294634	0.56725442	0.207907906	0.291178514
IKZF2	11.08920163	10.92892615	9.887530857	5.617379415	10.83641252	8.485352392	-2.322171439	0.209727342	0.292969638
STAT5B	10.57763239	10.58620089	10.09353432	10.11548353	10.16981855	10.22863791	-0.247809203	0.209902073	0.292459958
GZMB	6.537847526	6.802304937	5.044394119	7.349361602	7.985662167	16.54579351	4.498756898	0.209968992	0.29180306
AHR	11.50423913	11.52053397	11.64514956	11.69259728	10.81506661	10.9100342	-0.417408193	0.21237183	0.294387549
SMAD5	5.044394119	7.257499563	7.754047852	8.1716154	7.327827733	8.52011781	1.32120647	0.2180854	0.301536447
DIABLO	8.948131495	8.881531628	9.009702727	9.008906969	8.598948425	8.665924637	-0.188528606	0.22714892	0.313268994
CD99	7.904629856	7.987659979	8.226800849	6.600700674	7.099075147	8.270758341	-0.716185507	0.228606589	0.314479115
TRAF6	8.664959443	8.74292639	8.73925085	8.448231518	7.69883465	8.712762888	-0.429102542	0.231829429	0.318105191
IL23R	5.044394119	6.307540245	5.044394119	7.902356374	7.618103378	5.044394119	1.389508462	0.237711315	0.325352356
ACVR2A	5.044394119	6.892502746	7.631191104	5.044394119	5.289239236	5.879121274	-1.118444447	0.238606829	0.325755419
NDUFA2	7.647472017	7.371670583	5.044394119	8.293376992	8.056306862	7.3241976	1.203448245	0.241280045	0.328577347
SLAMF6	8.184737775	8.355903267	5.044394119	9.150283887	8.682384129	8.257083404	1.501572086	0.246440779	0.334764165
SH3BP2	7.071279726	7.477465247	7.598769626	7.514285922	7.614639522	8.738579179	0.573330008	0.247352468	0.335162594
CXCL8	7.196810608	7.417964235	11.24786246	12.06489021	9.779159719	10.06953273	2.016981785	0.24952386	0.337261677
NFATC2IP	8.110098974	7.987659979	5.044394119	8.041714659	8.32359074	8.933436792	1.385529706	0.252116187	0.339917844
NRP1	5.044394119	6.491964816	7.461266103	5.044394119	5.044394119	5.879121274	-1.009905175	0.252190043	0.339173705
CD84	9.926544633	10.45543894	9.867258462	10.01442699	9.69309828	9.675209085	-0.288835893	0.254031068	0.340804056
TAOK2	7.537847526	7.903391062	7.424740227	7.235131851	7.361283031	7.574056617	-0.231835772	0.255979638	0.342570281
PML	8.948131495	9.282736854	9.678496819	9.118415834	8.90713814	9.01207268	-0.290579505	0.256547774	0.342484959
BCL2	9.651863786	9.569207815	9.406124548	8.500865406	8.996348846	9.709754138	-0.473409253	0.256824029	0.342011361
TFB2M	8.301147268	8.205660631	9.150565263	8.044800639	8.199602023	8.206751728	-0.402072924	0.257744387	0.34239573
HSPE1	12.15023107	12.13870351	11.45675062	11.8574305	11.52683797	11.15791572	-0.401167005	0.259501128	0.343886581
PPP3CA	7.813481968	7.477465247	7.424740227	7.65016935	7.802943053	9.01207268	0.583165881	0.262599371	0.347143559
NOD2	5.044394119	6.371670583	5.044394119	5.860936446	5.879984089	8.118755247	1.13307232	0.262850548	0.346630163
GFER	6.537847526	7.205660631	7.309263009	6.796487739	6.734378767	6.542837886	-0.326355591	0.267387607	0.351757484
CTSW	5.044394119	7.170036722	7.424740227	6.633867538	7.805983508	11.00144956	1.934043179	0.268822158	0.352788401
FOXP3	9.72454824	9.813892911	8.424740227	10.13805454	10.84419787	9.345031103	0.788034043	0.275045533	0.360083766
TRAF5	8.00416553	8.205660631	7.693926859	7.955795633	8.291410335	8.427924111	0.257125686	0.277072601	0.361863493
ALDH8A1	6.844508864	6.680998641	5.044394119	5.044394119	5.044394119	6.002269505	-0.826281293	0.277221802	0.361188021
KLRC1	5.044394119	7.387267438	7.631191104	5.044394119	5.044394119	6.420582136	-1.184494095	0.277717021	0.360965529
VAV1	9.757525562	9.40652934	8.709193616	8.90575495	8.908553241	8.900389891	-0.386183479	0.278302056	0.36086056

TPR	9.031386998	9.541595584	8.853583525	9.49410804	9.159752511	9.834699256	0.3539979	0.280152484	0.36239295
SELL	10.94455604	10.93557147	9.358506528	8.491848533	10.98297808	5.044394119	-2.239804434	0.281450376	0.363205009
CHMP3	9.178663261	9.436823262	9.299209344	9.330518996	8.758120856	9.142750728	-0.227768429	0.283977915	0.36559627
AREG	6.575322231	5.044394119	7.226800849	5.044394119	5.8210904	5.449728482	-0.843768066	0.285260854	0.366377685
CLCF1	7.147901007	7.09603614	7.839777726	5.044394119	5.044394119	8.13678917	-1.286045821	0.291114296	0.373011698
IL2	5.044394119	6.602996129	7.268621025	5.044394119	5.044394119	6.103552841	-0.907890064	0.291440004	0.372548307
LAIR1	6.647472017	7.520533969	5.044394119	5.044394119	5.044394119	6.175106102	-0.982835255	0.295413497	0.376739095
CD68	7.122810026	7.24042605	7.693926859	7.334307256	7.108956659	5.7907654	-0.607711207	0.300838452	0.382756903
HLA-E	12.38531703	12.41416266	12.20273309	12.29839563	12.26679504	11.61671166	-0.27343682	0.303518289	0.385262091
CCR7	10.93737844	10.383384	9.933753874	10.56889861	9.498022745	9.610003313	-0.525797215	0.304596506	0.385727352
CD28	10.67578241	10.21224328	9.746668321	9.699956728	10.16272041	5.578461796	-1.731185027	0.307504539	0.388502238
CDKN1A	9.749351631	9.40652934	10.14496256	10.41045011	9.497282572	11.31597709	0.640955416	0.321264254	0.404942385
STAT4	9.56138304	9.291052123	10.05820124	7.781766233	7.805983508	10.34825933	-0.991542445	0.323168314	0.406397276
MR1	7.122810026	7.151889375	7.693926859	7.678261657	7.377724178	7.608927077	0.23209555	0.32443398	0.407044485
TNFSF13B	5.044394119	6.730751676	5.044394119	5.682230559	6.543556424	6.767804251	0.724683773	0.328841329	0.411621248
STAT2	7.537847526	8.007979963	7.693926859	7.057078969	7.258495712	7.938586214	-0.328531151	0.335532156	0.419028638
FASN	9.255704297	8.282736854	8.94669293	9.684210924	8.900041741	9.114211322	0.404443302	0.336157548	0.418844577
STK11	8.084335878	8.105496469	7.662899964	8.084329003	7.999008192	8.305718179	0.178774354	0.353996297	0.440059617
ALDOC	8.547307855	8.562354144	9.150565263	7.364260478	6.315079241	9.536059354	-1.01494273	0.354038182	0.439104565
CSF2	5.044394119	5.044394119	5.044394119	5.044394119	5.289239236	13.18876646	2.796405819	0.354842005	0.439096727
CD40	5.044394119	5.044394119	5.044394119	5.044394119	5.104024363	7.380781128	0.798672418	0.357680907	0.441601485
BTBD6	7.518738703	7.718473346	7.565602762	7.65016935	7.593679904	7.889794776	0.110276406	0.368799498	0.454293927
RNASEL	7.312287825	7.491964816	5.044394119	7.277723728	7.143018495	7.924813365	0.832302942	0.369469033	0.454086658
TRAT1	10.02123904	10.00979796	9.461266103	7.134437851	8.874201736	10.53888761	-0.980985969	0.382152424	0.468612249
IFNG	8.387952095	8.642524493	8.496890012	5.044394119	5.340464559	10.23073841	-1.637256504	0.385786621	0.472000787
NR3C1	9.993823586	9.760997963	9.907522332	9.22700397	8.840495799	10.3050538	-0.429930103	0.387188901	0.472649514
PFKFB4	5.044394119	5.044394119	5.044394119	5.422363433	4.747089818	6.053799805	0.3633569	0.390044635	0.4750656
PRKCB	9.39320782	8.616292951	8.226800849	10.80333707	9.526146746	8.248815788	0.780665995	0.391438296	0.475694072
CD6	9.523539689	10.42553745	10.1561463	9.785460717	10.17099819	8.582853565	-0.521970322	0.394701478	0.47858658
GZMM	7.071279726	7.076927317	7.226800849	7.839771836	6.171587647	5.044394119	-0.773084763	0.395801766	0.478849458
PRICKLE3	6.716184767	6.956633083	5.044394119	6.478216667	6.682384129	7.464083775	0.635824201	0.397784451	0.48017633
FCRL3	8.449791349	9.671475867	5.044394119	5.044394119	8.178642405	5.044394119	-1.632743564	0.399805661	0.481543707
IL12RB1	8.356009203	8.655463549	8.116617931	8.361787992	8.664069232	8.613227214	0.170331252	0.401699563	0.482752025
CXCL10	5.044394119	6.205660631	5.044394119	8.457524272	5.499162305	5.370656911	1.010964873	0.402218394	0.482306127
CXCL3	5.044394119	6.706089622	7.920697721	6.575315356	5.044394119	5.468837305	-0.860878228	0.41625505	0.498035843
HK2	7.356009203	7.754999222	8.289085127	7.063179168	7.568835833	7.835619635	-0.310819639	0.427895714	0.510835852
SLC7A5	10.1164685	9.509886724	9.953119199	9.769693401	10.59719439	10.01776059	0.268391318	0.428398873	0.510312504
CXCL9	5.044394119	6.548548345	7.424740227	5.044394119	5.044394119	6.630300727	-0.766197908	0.429807552	0.510867748
PIK3R2	6.781773108	6.339961723	5.044394119	7.202341916	6.902884491	5.820822633	0.58664003	0.430191054	0.510204707
TOX	8.479744571	9.110203472	8.139338008	10.70337833	9.847890459	7.620651254	0.816011332	0.443273531	0.524572606
FNIP1	9.071279726	9.028017717	9.339010352	9.678261657	8.881426063	9.556300146	0.225893357	0.443914001	0.524186031
PRKAB2	7.59370076	7.655463549	7.598769626	7.850392952	7.319341267	8.684434165	0.335411483	0.446586882	0.526195847
CXCR6	7.765653443	7.997855746	8.368156698	5.044394119	6.914199804	9.154600446	-1.006157172	0.449302693	0.528247418
RAI1	6.874882513	6.655463549	5.044394119	6.364260478	6.628445322	7.139773029	0.519246216	0.449675083	0.527540899
OAS1	7.097274934	8.214430841	7.387265521	7.736678343	8.836040741	7.449728482	0.441158757	0.459031925	0.537354866
MTCP1	5.044394119	6.462818471	5.044394119	5.697997875	5.796842854	6.254332793	0.399188937	0.471761408	0.551066128
PPARD	6.749351631	6.491964816	5.044394119	5.24052511	5.044394119	6.390834793	-0.536652182	0.472152245	0.550336595
ID2	8.537847526	8.609659859	10.22680085	8.753751857	9.123676158	12.44128812	1.014802633	0.473327922	0.550523034
CD7	9.761595226	9.244713408	8.709193616	5.24052511	9.727179276	9.293712326	-1.151361846	0.474662841	0.550893491
GATA3	10.85025285	10.9670497	11.18099716	10.41939431	11.338891	13.12073872	0.626908109	0.476457239	0.551794494
ADORA2A	6.813481968	7.730751676	7.94669293	7.111073858	7.793783054	6.265303911	-0.44025525	0.477362049	0.551663605
TNFRSF10B	7.874882513	7.892502746	8.309263009	8.331782855	8.058858047	8.075778175	0.129923603	0.480434545	0.554033029
IL16	10.42691112	10.29105212	9.754047852	10.03552283	9.847152697	10.08509594	-0.16807988	0.483407203	0.556277503
ACAD10	7.044807514	7.616292951	5.044394119	7.050952866	6.958593924	7.538322405	0.61412487	0.485588135	0.557603325
TFAM	8.575322231	8.425537455	8.81176335	8.89039791	8.874201736	8.461701123	0.137892578	0.485820924	0.556691207
OXSM	6.459845014	6.802304937	7.724300508	6.82548761	6.796842854	6.459314531	-0.301601821	0.488163796	0.558195732
PFKL	10.1037012	10.1031372	10.26345932	10.79786021	10.38435024	9.895102059	0.202338263	0.489695178	0.558767971
AKT2	9.840666797	9.82538855	10.167244	9.940136407	9.779933075	9.845705247	-0.089174874	0.501352014	0.570867209
MDH2	7.682237435	8.205660631	8.647132648	9.081326515	8.895767086	7.676237012	0.372766633	0.514256625	0.584333524
LTB	11.59027257	11.75650125	11.2161536	12.81840482	13.2184085	10.40454517	0.626143689	0.521981409	0.591870133
PTGER2	7.732863508	8.433071127	7.920697721	5.044394119	5.96948224	9.924813365	-1.049314211	0.525676592	0.594815684
FUT4	7.267199936	7.576029081	7.783194197	8.02305886	7.472620518	7.595949223	0.155068462	0.527286578	0.595394428
PSAT1	6.419203029	6.730751676	7.496890012	6.478216667	6.908553241	6.542837886	-0.239078974	0.528820419	0.595884963
DHFR2	5.044394119	6.87047644	7.309263009	7.069253683	7.099075147	6.533792747	0.492662669	0.529991189	0.595965196
RDH14	8.097274934	7.754999222	7.348791373	8.376559743	8.084124806	7.454529468	0.238049496	0.531030499	0.595897579
IL21R	9.602802967	8.982534947	8.093534318	10.0977634	9.275046888	8.513231424	0.402389828	0.559751529	0.626829192
IL4	6.611848107	6.402697478	5.044394119	5.044394119	5.044394119	6.613227214	-0.452308084	0.562689299	0.628819793
KLRD1	5.044394119	6.914197817	7.693926859	5.044394119	5.044394119	7.459314531	-0.701472009	0.566783122	0.632091465
SOS2	7.781773108	8.047780972	8.920697721	7.196803732	7.648909425	8.815234395	-0.363101416	0.572970432	0.637679618
PIK3R3	5.044394119	6.706089622	7.268621025	7.229718355	7.22708276	5.989094116	0.475596822	0.577382957	0.641273694

DGLUCY	8.852162436	9.270173393	7.496890012	8.75939842	9.118770949	8.712762888	0.323902138	0.587807182	0.651516345
CD38	6.459845014	7.291052123	7.461266103	5.044394119	6.815066612	7.850266411	-0.500812032	0.597985619	0.661445317
CD45RO	11.22949923	11.61380911	10.79754949	11.06165653	11.88753843	11.26564542	0.191327515	0.606170968	0.669133737
MTHFR	6.682237435	6.802304937	7.461266103	7.303718936	6.958593924	7.10965304	0.142052475	0.616418841	0.679063032
RARG	7.629770015	6.576029081	5.044394119	5.832647402	6.543556424	8.740546044	0.622185552	0.618087651	0.679520298
TRIM22	9.703547941	9.819652181	9.093534318	10.11474952	9.252936187	8.373194634	-0.291951368	0.624186754	0.684836479
UBE2F	8.398444469	8.347954514	7.94669293	7.633867538	8.568835833	9.251576928	0.253729462	0.632027505	0.692038197
IFNGR1	9.00416553	8.853733176	9.639183895	8.81106054	8.773734591	9.421808396	-0.163493025	0.635785049	0.694748985
CCR5	5.044394119	6.133510846	5.044394119	4.874875637	5.271751809	5.468837305	-0.202278111	0.641982959	0.700110189
COX7C	9.926544633	9.684158982	9.997319003	10.27180969	10.00629622	9.634379638	0.101187643	0.652085472	0.709699449
CD96	9.474795355	9.579427658	9.299209344	8.846861261	9.411053582	11.07694619	0.327142892	0.65299142	0.709261222
MAP2K2	9.19078682	9.371670583	9.406124548	9.228361801	9.208820553	9.400818881	-0.043526905	0.655497924	0.710559749
CALM1	9.566044417	9.03298397	9.081852513	9.137331925	9.178642405	9.726721345	0.120604925	0.660896032	0.714981336
STAT3	10.88610977	10.27227492	10.38251199	9.968039229	10.22934937	10.88224254	-0.153755179	0.666495018	0.71960219
IL13	5.044394119	6.977391644	7.309263009	5.044394119	5.044394119	12.90970647	1.22248198	0.67586469	0.728267718
TNFSF9	6.874882513	6.576029081	7.662899964	6.007325933	5.772180799	8.2067511728	-0.375851032	0.677842157	0.728949304
IL12A	5.044394119	6.09603614	7.309263009	7.878339493	6.947622806	5.044394119	0.473554383	0.67819507	0.72788461
FLCN	7.829078823	8.179025505	8.387265521	7.895535108	7.966767855	9.097426738	0.188119951	0.678814785	0.727109909
CD52	12.23170125	12.4036564	11.06711597	11.66603853	12.04750259	11.36938637	-0.206515377	0.678913844	0.725781664
SERINC3	10.97115842	10.50274466	10.13933801	10.54512333	10.50244596	10.91961446	0.117980885	0.689818713	0.735987682
CREB1	9.339768562	9.371670583	9.25827908	9.243214197	9.205370504	9.750340345	0.076402274	0.691320551	0.736140941
ITGB8	6.647472017	7.076927317	7.348791373	7.329254028	7.631876227	5.044394119	-0.355888777	0.694223598	0.737782726
LAT	9.141669053	9.466494129	8.81176335	8.038622064	8.76125715	9.895984712	-0.241354202	0.695073824	0.737240729
NT5E	6.499373378	7.274373381	7.662899964	5.633867538	8.178642405	8.786963829	0.387609016	0.724404441	0.766850013
TRIM33	10.07782257	9.642524493	9.84669714	9.829966642	9.718330826	9.871961482	-0.048928418	0.733187715	0.774634973
DHRS4	7.699310948	7.997855746	9.070075345	8.678261657	8.058858047	8.51553054	0.161802735	0.740424284	0.780758681
PTPN6	9.408861085	9.495567053	9.424740227	10.21883004	10.05502958	8.571848973	0.172180074	0.75917383	0.798975176
ACSF2	5.044394119	6.82538855	7.268621025	7.032416914	6.414045691	6.380781128	0.229613347	0.763217247	0.80167393
IL4R	9.051471245	8.897957176	8.724300508	8.459838138	8.393980068	10.48417899	0.221422756	0.765165951	0.802166239
ERAP2	9.295544561	10.39307306	9.84669714	8.994614882	11.58750888	9.734637387	0.260482129	0.770313453	0.806003652
PPT2	5.044394119	6.133510846	5.044394119	5.549475351	5.289239236	5.728704431	0.115039978	0.779860935	0.814421246
MTOR	8.017840467	7.848108627	8.116617931	7.751864747	7.92542706	8.522405986	0.072376923	0.783384698	0.816527897
ACOT2	7.499373378	7.706089622	8.406124548	8.180060468	7.631876227	7.50631201	-0.097779614	0.790099769	0.821946401
CD200	8.044807514	7.924924224	7.839777726	8.581703684	7.236127899	8.345031103	0.117784407	0.792563252	0.82292966
CCR8	7.732863508	8.919570989	8.724300508	6.531987924	9.053751157	10.89642584	0.368476637	0.793551749	0.822380589
CD276	5.044394119	6.371670583	7.268621025	5.12863223	5.980288995	8.554065142	0.326100213	0.801757363	0.829298646
ITGB2	9.897250326	10.24898806	9.874047628	9.708738802	9.861106079	10.28834415	-0.054032328	0.811111243	0.837375797
PCCA	6.874882513	6.706089622	5.044394119	5.860936446	5.759689855	6.569637946	-0.145034002	0.831114917	0.856395979
FAS	10.64966957	10.76548071	9.832824965	11.45259495	10.3145456	9.855720841	0.12496205	0.833795961	0.857528294
LCK	10.43202707	10.42175581	10.09933994	10.31142703	10.93517974	9.902148203	0.065210718	0.848278905	0.870771149
CCL18	5.044394119	6.371670583	7.693926859	5.044394119	5.044394119	8.289688069	-0.243838418	0.862927806	0.884133971
IFNGR2	7.419203029	7.24042605	7.598769626	7.885242353	8.063946924	6.569637946	0.086809506	0.865930726	0.885536705
SLC27A3	5.044394119	6.274373381	5.044394119	4.459838138	5.586625146	6.728704431	0.137335365	0.867570913	0.885543191
TNFSF14	6.611848107	7.655463549	7.693926859	6.364260478	6.332052319	9.901269315	0.212114532	0.872104994	0.888497945
PIDD1	6.716184767	6.307540245	5.044394119	6.251251516	5.796842854	5.7907654	-0.076419787	0.891467744	0.90652067
HIF1A	10.97115842	10.61629295	11.34879137	10.84641919	10.67741217	11.55964617	0.049078263	0.893216289	0.906597807
GZMA	7.22065735	7.813892911	7.754047852	5.044394119	5.044394119	13.68238924	0.327526455	0.915096949	0.927070181
CX3CR1	5.044394119	6.655463549	5.044394119	5.044394119	5.586625146	5.921349509	-0.063961004	0.919531081	0.92982434
TSC2	8.366735609	8.541595584	8.368156698	8.18845639	8.197288157	8.950530535	0.019929063	0.942394975	0.951169603
TNF	10.27005959	9.421755814	11.79397404	9.445898947	10.41703161	11.42150193	-0.067118985	0.944025683	0.951044461
TIMP1	7.356009203	7.402697478	7.387265521	5.514285922	6.491628632	9.879121274	-0.086978791	0.95072069	0.956012271
SLC2A11	6.459845014	6.778845964	5.044394119	6.344360921	5.747089818	6.286998982	0.031788208	0.957900745	0.961448526
CD27	7.732863508	7.718473346	5.044394119	5.044394119	10.16804729	5.044394119	-0.079631815	0.969027677	0.970818856
CD40LG	10.13854295	8.718473346	8.565602762	8.301140392	7.365410916	11.72224941	-0.011272781	0.994028062	0.994028062

ExpTregx2 vs ExpTregx5

Gene	expTreg x2	expTreg x2	expTreg x2	expTreg x6	expTreg x6	expTreg x5	log2FC	p-value	FDR
IL2RG	13.08420726	13.03721855	13.07569945	12.80413405	12.89532108	12.79420194	-0.234489396	0.002659276	1.414734715
PRDM1	10.77988676	10.95277994	10.73686538	10.20992237	10.37670208	10.28093015	-0.533992495	0.002842009	0.755974361
SMC2	9.077791621	9.38175663	9.681194052	10.44122246	10.28052202	10.56797745	1.049659875	0.005550842	0.984349281
CD52	13.51619041	13.02357681	12.92047402	11.66603853	12.04750259	11.36938637	-1.459104583	0.005594002	0.744002259
NCAPG2	8.177167784	8.688811449	8.692644072	9.433001953	9.408055254	9.630300727	0.970911543	0.006312406	0.671640051
PKM	11.84740198	12.2603185	12.45111748	13.06678899	12.91182036	13.05577583	0.825182405	0.011162272	0.989721446
ACADVL	12.13812011	12.10373214	12.04084737	12.45810309	12.36489558	12.27194875	0.270749261	0.011231229	0.853573419
FH	9.417316676	9.38175663	9.58309461	10.0471108	9.843458213	9.788865867	0.432422321	0.012456446	0.828353648
PSAT1	7.830462116	7.941844462	7.209496385	6.478216667	6.908553241	6.542837886	-1.017398389	0.01831354	1.082533715
GOT1	6.38093624	6.725711032	6.437570952	7.026184961	6.931008092	7.265303911	0.559426246	0.018543918	0.986536418
BUB1	8.60664902	9.024132374	8.601434201	9.749029447	9.614639522	9.24050052	0.790651298	0.018719557	0.905345835
CKAP5	8.474772626	8.938704755	9.042805848	9.535283003	9.414045691	9.567423524	0.686822997	0.01910176	0.846844674
LEF1	9.058523287	7.129777413	6.859397617	5.105173257	5.044394119	5.044394119	-2.617912274	0.019446699	0.795818773
MTHFD1	9.006684356	9.495098103	9.401394017	10.59176104	10.22367616	9.900389891	0.937550203	0.01983174	0.753606124
STAT5A	10.00794051	9.89239402	10.02706311	10.21883004	10.28978232	10.51323142	0.364815379	0.020546328	0.728709749
MKI67	7.623137143	8.615990664	8.071594271	9.035522825	9.229349367	9.288344152	1.080831422	0.021990831	0.731195144
IL33	5.514202771	5.903709334	5.38207584	5.044394119	5.044394119	5.044394119	-0.555601862	0.023830528	0.745755355
PRKCD	8.221155796	8.291111266	8.106255279	8.907451241	8.567044777	8.529248821	0.461740833	0.024811761	0.733325382
IFIT2	5.699758424	5.711064256	5.353506687	5.196803732	5.044394119	5.198189715	-0.441647267	0.026023025	0.728644698
JAK1	10.80177936	10.77407405	10.55278641	10.44122246	10.337841	10.45333072	-0.298748548	0.026338544	0.70060526
FYN	10.61656449	10.0650212	10.39964847	8.604888471	9.100314044	9.708749825	-1.222427274	0.026738208	0.677367946
IFNA1	5.333630525	6.003245007	5.838933515	5.044394119	5.044394119	5.044394119	-0.680875563	0.027802672	0.672319151
SGO2	7.37315889	8.107581667	7.548854286	8.30629288	8.563455982	8.533792747	0.791315589	0.028429347	0.657583152
SOC34	9.036534284	9.079347986	9.040567376	9.30629288	9.33521266	9.135294923	0.206783606	0.031725842	0.703256167
TGFB1	9.751670513	9.668107055	9.873300174	9.471352126	9.554444741	9.254332793	-0.337649361	0.034800863	0.740562366
PPP2R5D	8.693526471	8.775834511	8.841507458	9.236482057	9.220261494	8.902148203	0.349341105	0.040461894	0.827912601
IFITM3	7.172694307	7.688811449	6.686930421	5.282960376	5.586625146	6.50631201	-1.390846215	0.041041131	0.808662287
EBI3	7.986435672	7.703684725	8.353506687	9.593342651	8.527068302	9.936871782	1.337885216	0.044929943	0.853668924
CASP8	13.09281596	13.27424107	12.12644803	11.92430535	11.85891187	11.4211954	-1.096364147	0.048142578	0.883167302
TNFSF13B	9.134099062	7.572087842	7.464538	5.682230559	6.543556424	6.767804251	-1.725711223	0.052617019	0.933075134
SLC3A2	9.806118297	9.864538736	10.29742801	9.160277856	9.601575488	9.536059354	-0.556724117	0.054801559	0.940465465
KIR3DL1	6.583244416	7.235905764	7.561399539	5.044394119	6.001662646	6.390834793	-1.31455272	0.055916403	0.929610203
PSMA3	9.950301886	10.09070785	10.59763263	10.83932759	10.69596932	10.70824741	0.534967315	0.056987022	0.918699871
MAX	11.29195768	11.0928279	10.74444946	10.62822097	10.60332421	10.62498693	-0.424234308	0.057080165	0.893136706
LILRB3	6.251168365	6.588207508	6.201503594	5.044394119	5.044394119	6.078890786	-0.957733481	0.058823698	0.894120216
TPSAB1	5.596664931	5.488671834	5.135915252	5.044394119	5.044394119	5.044394119	-0.362689887	0.059608447	0.880880386
ACVR1C	6.609961754	7.246101531	7.144278725	8.536379693	7.648909425	7.582853565	0.922600224	0.064958304	0.93399508
TFRC	11.68334178	11.6514228	11.74513695	12.34420437	11.79090859	12.25278327	0.435998231	0.065784343	0.920980796
TFAM	8.284720925	8.349019844	8.464538	8.89039791	8.874201736	8.461701123	0.376007334	0.066073177	0.901305907
IL18BP	5.971060446	5.650943263	5.353506687	5.218830039	5.044394119	5.286998982	-0.475095752	0.068987837	0.917538237
NEK2	7.404019853	8.484371697	8.349895434	9.221559831	9.178642405	8.670058437	0.94399123	0.069483326	0.901588521
TET2	9.872444565	10.04909566	9.791799539	9.768706523	9.528909648	9.662816496	-0.250951032	0.071303099	0.903172593
TFDP1	8.757656808	9.230780732	9.437570952	10.41820495	10.38993324	9.423033615	0.935054437	0.071616965	0.886051752
ACVR2A	5.79597374	6.266279413	6.464538	5.044394119	5.289239236	5.879121274	-0.771345508	0.071901982	0.869360322
SLC2A11	7.609961754	6.941844462	6.504066364	6.344360921	5.747089818	6.286998982	-0.892474286	0.075268541	0.889841422
IL12RB1	10.0291295	9.39097516	8.812938306	8.361787992	8.664069232	8.613227214	-0.864652844	0.076068403	0.879747621
NFATC1	7.596664931	6.954335407	7.316980811	5.915902906	5.902884491	7.053799805	-0.998464649	0.078283173	0.886098895
HLA-DRA	13.22237377	13.08290756	13.44414844	16.27999664	14.27360622	14.12281373	1.642328937	0.079770508	0.884123125
GNAI2	12.56415806	12.68389755	12.66020639	12.99899695	12.75576415	12.76394161	0.203480234	0.081240228	0.882036758
NCAPD2	9.413530073	9.709222909	9.316980811	10.57317961	10.51689867	9.621789228	0.753777905	0.083385758	0.887224468
OAS3	7.051230795	7.28617897	7.256544958	7.637960293	7.468788656	8.295051254	0.60261516	0.083420917	0.870194666
BCL2L1	9.601665612	9.363140952	9.556707844	9.820094352	9.968125686	10.7600686	0.675591411	0.088061084	0.900932625
CHMP3	9.471134049	9.604149052	9.374986415	9.330518996	8.758120856	9.142750728	-0.406292979	0.088270128	0.886032232
FOXO1	9.917256579	9.903709334	9.371428595	9.200959362	9.422984966	8.714765241	-0.61789498	0.088545728	0.872339394
LDHA	10.87726388	11.76302225	11.73340485	12.10110255	12.09969473	12.12253095	0.649879081	0.088934603	0.860240164
TP53	9.948994505	10.17717194	10.04392378	11.15421835	10.69268767	10.20532825	0.627381346	0.09000377	0.855035814
HLA-E	13.18426884	12.55936782	12.50447247	12.29839563	12.26679504	11.61671166	-0.688735603	0.091350745	0.852606953
CD247	10.72594795	10.21918241	10.08468993	8.744291528	9.241752448	10.10584344	-0.979310956	0.091611632	0.840299794
RDH5	5.92924027	5.824274866	5.10196792	5.044394119	5.044394119	5.044394119	-0.574100233	0.091852566	0.828229919
CS	10.28160831	10.37131488	10.58078568	11.180762	10.78994916	10.57515917	0.437387149	0.091946869	0.815262238
NDUFAB1	10.22979471	10.50468415	10.8408644	11.11804962	10.99501733	10.78886587	0.442196517	0.09277427	0.809113302
AURKA	6.784291934	7.42727129	7.510550398	7.807431116	7.600700332	8.034690983	0.573569603	0.093307584	0.800639271
KLRG1	6.623137143	6.55578603	5.135915252	5.044394119	5.044394119	5.044394119	-1.060552022	0.093992587	0.793715183
PTGDR2	6.661956392	5.418282506	5.686930421	5.044394119	5.217980552	5.044394119	-0.820133509	0.09846245	0.818469118
FLCN	9.557739419	9.194386494	8.93606269	7.895535108	7.966767855	9.097426738	-0.909486301	0.101358926	0.829583826
VAV3	6.21681686	6.325173102	5.51700542	5.044394119	5.759689855	5.044394119	-0.736839096	0.101535352	0.818436477
VSIR	7.649132351	7.325173102	6.185383929	5.044394119	5.902884491	6.420582136	-1.263942878	0.102237112	0.811793191
KLF2	12.65134461	12.39011342	10.71597658	9.889539928	11.22310761	8.826389309	-1.939465921	0.102983956	0.805698012
IRF9	11.0098227	10.7993928	9.866997433	9.748083107	9.758120856	9.928268923	-0.747246682	0.103767411	0.800061779

TGFB2	8.321557693	8.413767025	8.701172344	8.18845639	7.449475181	8.13678917	-0.553925441	0.104044955	0.790741661
HLA-DRB1	11.92724989	11.50839493	12.23590519	14.1377836	12.29411962	12.89807885	1.219477355	0.104276652	0.781340546
PSMA2	10.9555196	10.99948309	11.54727843	11.93536373	11.67096459	11.41720454	0.507083916	0.104291445	0.770597903
VAV1	9.424860197	9.404693442	8.911774321	8.90575495	8.908553241	8.900389891	-0.342209959	0.110998301	0.808919123
MX1	7.65555862	6.768779754	5.938469188	5.744291528	6.022724261	5.449728482	-1.048687764	0.115257133	0.828605334
ENTPD1	10.33463205	10.89563603	11.75575134	11.75398757	11.68155666	12.59852704	1.016017282	0.115777394	0.821247647
IL36A	5.514202771	5.522619166	5.044394119	5.044394119	5.044394119	5.044394119	-0.316011233	0.116147871	0.813035095
HNF1A	5.79597374	5.851241914	5.044394119	5.044394119	5.044394119	5.044394119	-0.519475805	0.116616534	0.805714237
BCL6	7.724420478	7.941844462	6.616541093	5.044394119	5.271751809	7.198189715	-1.58949013	0.116858077	0.797032014
SHMT1	6.609961754	7.085039098	7.177256048	7.744291528	7.26734663	7.265303911	0.468228389	0.119647655	0.805728514
ALDH8A1	6.68726748	6.604149052	5.592293547	5.044394119	5.044394119	6.002269505	-0.930884112	0.121707337	0.80935379
BCL2	10.40592692	9.930825462	9.47120173	8.500865406	8.996348846	9.709754138	-0.86699524	0.121729651	0.799508327
DHFR2	7.549136561	7.085039098	7.41700963	7.069253683	7.099075147	6.533792747	-0.449687904	0.121942649	0.791140113
NCAPH	8.674667443	9.709222909	10.0803379	10.23378038	10.2601594	10.47061585	0.833442458	0.122825243	0.787265416
PSMA6	9.449107743	9.839505806	10.05948459	10.45520669	10.23950526	9.973290438	0.439968083	0.123960066	0.785080418
OASL	5.301209048	5.929244426	5.567631493	5.422363433	5.044394119	5.044394119	-0.428977765	0.126857872	0.780211625
ADD1	10.62067591	10.72662154	10.82078617	10.93806327	10.77722451	11.12892705	0.225377076	0.126196533	0.78065762
CTLA4	13.91214998	13.41517963	12.54174934	10.58647643	13.17717551	10.72969495	-1.791910689	0.126659375	0.774514796
BATF3	5.864145242	8.951222795	8.887070036	10.09702032	9.191487204	11.07070581	2.218925089	0.126865273	0.766958242
CXCR6	8.748668025	9.788097931	9.676876756	5.044394119	6.914199804	9.154600446	-2.366816114	0.127328538	0.761109911
RBX1	10.5534444	10.58920903	11.03214204	11.3171812	11.00133111	10.95392511	0.365880648	0.128760026	0.761114819
TAOK2	8.212464836	7.884256971	7.451117484	7.235131851	7.361283031	7.574056617	-0.459122598	0.130237292	0.761387246
HK2	7.117901834	7.129777413	6.686930421	7.063179168	7.568835833	7.835619635	0.511008323	0.130620861	0.755329324
CCR3	5.365339385	5.522619166	5.044394119	5.044394119	5.044394119	5.044394119	-0.266390104	0.131288912	0.751029047
PPAT	8.225481722	8.685069047	9.056164231	9.344360921	8.976245942	9.132301779	0.495397881	0.132577057	0.750329725
SP100	10.18829116	10.01521765	9.484437557	9.55164645	9.507590927	9.416897089	-0.403937301	0.134055302	0.750709693
NMT1	9.865531782	9.712903255	10.08468993	10.18426454	9.985662167	10.40392479	0.30357551	0.134158072	0.743459317
ATG14	8.772514767	8.003245007	8.500813386	7.895535108	7.476442229	8.198189715	-0.568802036	0.137968103	0.75669104
USP15	11.43936447	10.94027546	9.810312837	9.424734337	9.621558936	10.18741524	-0.98541475	0.13837491	0.751178083
PDHA1	8.739622885	8.572087842	8.389130597	8.798317409	8.684037648	8.380088529	0.203867421	0.138800077	0.745875159
LTA	11.30785389	11.40810273	9.495920125	13.40445635	12.55320128	11.19532438	1.647035092	0.139348007	0.741331398
NRL	5.127179648	5.183817253	5.044394119	5.044394119	5.044394119	5.044394119	-0.074069554	0.141287421	0.744207009
LAT	9.986435672	9.711064256	9.95044183	8.038622064	8.76125715	9.895984712	-0.984025944	0.146652303	0.764892401
GRK2	10.91859303	11.36079701	10.89762109	11.82996664	11.37644644	11.23388344	0.421095131	0.147281532	0.76071626
SDHB	9.210283891	9.344281925	9.903175858	10.14094137	9.975570997	9.685455542	0.448075412	0.148156176	0.757875824
SGK3	6.089704943	5.79679413	6.709650498	5.902356374	5.044394119	5.663853287	-0.661848597	0.149158561	0.755736709
CD8B	6.528277956	5.851241914	5.044394119	5.044394119	5.044394119	5.044394119	-0.76357721	0.149633921	0.750992886
SIK1	7.38093624	7.246101531	5.044394119	5.044394119	5.484055413	5.044394119	-1.36619608	0.151262404	0.75207102
MIF	9.875200431	10.50680576	10.68191235	11.4972091	11.04894697	10.51150468	0.664580736	0.151696861	0.747247502
PPIA	13.53591763	13.99882374	14.14785757	15.16830307	14.73412939	13.93306059	0.717631369	0.151868088	0.741227733
TIGIT	11.03407024	10.62383142	11.51176292	11.40295402	11.48405541	11.75180377	0.489716208	0.152230621	0.736242637
IL23A	7.603328662	7.183817253	6.652165003	5.846861261	6.996348846	6.318941874	-0.759052979	0.154079418	0.738470725
CCL11	5.044394119	5.25637428	5.135915252	5.044394119	5.044394119	5.044394119	-0.090921481	0.157250546	0.746940092
RNASEL	8.259629944	7.635513223	8.013431246	7.277732728	7.143018495	7.924813365	-0.521006275	0.159515756	0.750994532
NSD2	10.33663301	10.45390642	10.17215277	10.61841546	10.34830673	10.82035777	0.274795923	0.159604716	0.744822006
FCGR3A	5.089704943	5.978997461	5.410090216	5.044394119	5.044394119	5.044394119	-0.448536754	0.159632464	0.738473657
PIK3C3	9.631311074	9.241012654	8.78111286	8.410450111	8.630161795	9.036293087	-0.525510532	0.161635723	0.741294868
NME1	8.760640666	9.518419178	9.446052429	10.02540407	10.21683873	9.317624946	0.611585157	0.168949512	0.768214876
GPI	9.88753709	10.17317001	10.3891306	10.85215556	10.73836301	10.16048901	0.433723295	0.168999411	0.761929548
IL17F	5.044394119	5.344281925	5.169082116	5.044394119	5.044394119	5.044394119	-0.141525268	0.179038712	0.800408359
FKBP1A	6.349572069	6.505745348	7.225350336	7.229718355	6.980288995	7.248815788	0.459385128	0.180126845	0.798562348
IRF5	7.680981217	7.015217649	8.114791961	8.331782855	7.781478544	8.866568224	0.722946265	0.181603163	0.798453577
MAP3K14	9.371207983	9.39097516	9.049500501	9.236482057	8.338366093	8.866568224	-0.456755757	0.181991289	0.793601358
CXCL14	5.163705524	5.344281925	5.044394119	5.044394119	5.044394119	5.044394119	-0.13973307	0.18419919	0.796698935
WDR45	8.816192019	8.367817439	8.474522088	7.878339493	8.048626125	8.556300146	-0.391755261	0.184271341	0.790583497
CD200	5.772514767	7.471393843	7.523431689	8.581703684	7.236127899	8.345031103	1.131840796	0.185687102	0.790284305
ICOS	10.8176254	10.33714574	9.806365652	9.600700674	10.18624633	9.347614264	-0.608858509	0.187439321	0.791410465
CASP3	11.08018217	10.89239402	11.60522578	12.41030057	12.25321467	11.11155407	0.73242245	0.187700628	0.786273496
PCCA	7.31751086	7.050550722	6.031578593	5.860936446	5.759689855	6.569637946	-0.736458642	0.190203302	0.790532472
PTPRC	13.8386922	13.74302562	12.81129795	12.66854147	12.82624707	13.18948659	-0.569580211	0.190896192	0.787261817
ACTN1	9.329617463	7.978997461	8.818174954	9.945099812	9.00827749	9.421808396	0.749465273	0.191961372	0.785564999
LPAR6	11.23194639	10.66145649	12.55807783	10.5336364	9.700469432	11.02463732	-1.064245851	0.193616228	0.786288805
CTSD	10.02292969	10.01073954	10.72227504	9.540758134	9.595438216	10.17219451	-0.482517803	0.194580957	0.784220222
UQCRCQ	9.939809512	10.19438649	11.12274948	11.31078626	10.93309543	10.82175191	0.602896034	0.195871964	0.783487858
RAC2	10.40306537	10.61205425	10.89700257	11.44414704	11.39145213	10.56131628	0.494931085	0.196550338	0.780334176
FCRL3	8.994062271	8.572087842	6.616541093	5.044394119	8.178642405	5.044394119	-1.971753521	0.197141452	0.787883353
APC	7.259629944	6.966719131	7.201503594	6.968851786	6.868396115	7.085095936	-0.168502944	0.19786853	0.774015133
CCL25	5.044394119	5.488671834	5.201503594	5.044394119	5.044394119	5.044394119	-0.200462397	0.198126546	0.769367315
CD7	9.911898374	10.15974949	10.81948115	5.24052511	9.727179276	9.293712326	-2.209904102	0.203232689	0.783476744
MAF	11.47477263	12.3675256	11.74376164	11.10110255	11.8341804	10.84250383	-0.602757698	0.204146255	0.781336747
IRF1	9.034070244	9.699980757	7.225350336	6.583826855	7.138201479	8.237718079	-1.333218308	0.206317524	0.784006593

IFI30	7.292988541	7.681316912	7.85430874	8.24052511	7.565251495	8.38330112	0.453487844	0.207571764	0.783178571
CCL15	5.089704943	5.183817253	5.044394119	5.044394119	5.044394119	5.044394119	-0.061577986	0.208086399	0.779591299
IRF7	8.301209048	8.363140952	6.675434782	6.558140212	6.543556424	7.440078312	-0.932669945	0.2111128	0.785398669
MYC	10.2826466	9.95277994	9.135915252	10.51428592	10.37670208	10.09127451	0.536973574	0.213046854	0.787089765
PTGER4	8.353530083	8.178503453	8.430749686	8.798317409	8.319341267	9.786963829	0.647279761	0.213947504	0.784966013
IL7	5.127179648	6.246101531	5.294612998	5.044394119	5.044394119	5.044394119	-0.511570606	0.215969285	0.786956574
IRF3	7.971060446	7.658596836	6.38207584	6.697997875	6.607686762	6.578461796	-0.709195563	0.219314185	0.79370848
BATF	10.00164877	10.38752511	10.48361387	9.841547461	10.30759026	9.297725388	-0.47530821	0.219590425	0.789338555
PML	9.718294376	9.469219472	8.914221642	9.118415834	8.90713814	9.01207268	-0.354702945	0.221789341	0.791892143
CISH	9.69040037	9.113162699	9.688360957	9.795572033	9.618103378	10.14126265	0.354338011	0.223088777	0.791221529
GADD45B	9.134099062	9.866192255	8.331702317	7.329254028	7.805983508	9.166353628	-1.010134157	0.226061381	0.796454668
IL26	5.044394119	6.40013516	5.410090216	5.044394119	5.044394119	5.044394119	-0.573812379	0.229459023	0.803106582
IL10RA	12.41092101	11.98813811	11.67001451	9.707765652	10.06901791	12.49047482	-1.267271746	0.231693928	0.805628559
ADAR	11.33813192	11.1624436	11.52463343	11.61478604	11.47238132	11.43279809	0.164918832	0.235660462	0.814099779
LRRC32	8.467486272	7.204878868	5.732018311	5.633867538	6.796842854	5.044394119	-1.309759647	0.237316834	0.814532617
TCF7	7.730520678	5.711064256	5.044394119	5.044394119	5.044394119	5.044394119	-1.117598898	0.238579162	0.813661616
CXCL2	7.616564489	8.189111552	5.859397617	9.419988626	8.675751037	7.3757279	1.268797968	0.240342878	0.814410262
PLCG1	11.26489334	10.3227666	9.619543581	9.682230559	9.900041741	9.624986928	-0.666648099	0.240403499	0.809459882
IL18	5.234094852	5.824274866	5.044394119	5.044394119	5.044394119	5.044394119	-0.323193826	0.240735322	0.805479192
STAT2	9.313452644	8.526806963	7.193466275	7.057078969	7.258495712	7.938586214	-0.926521662	0.241077726	0.801583439
COX19	7.875200431	7.40013516	6.899475057	7.093299157	6.688986864	7.103552841	-0.429657262	0.24181893	0.799053856
IL37	5.163705524	5.55578603	5.044394119	5.044394119	5.044394119	5.044394119	-0.210234438	0.245136562	0.805016363
COX7A2	10.74716443	10.9173311	11.69264407	11.86748721	11.54127764	11.30671417	0.452779807	0.245906032	0.802589014
TIMM23	8.996595538	9.138013563	9.770346429	9.881795051	9.653136486	9.459314531	0.363096846	0.246023273	0.798075496
HSPA9	8.981328782	8.975937661	9.432458029	9.364260478	9.28815246	9.357900903	0.206863123	0.248357878	0.800766005
CDKN1A	8.396366281	8.789841369	10.58463185	10.41045011	9.497282572	11.31597709	1.15095676	0.248995551	0.797985742
CD45RC	5.841777429	5.488671834	5.437570952	5.044394119	5.044394119	5.68034141	-0.332963522	0.249177283	0.793786315
LCK	11.160885	11.43006884	10.34355391	10.31142703	10.93517974	9.902148203	-0.595250924	0.250899413	0.794514807
IL16	11.92425916	10.6605039	9.838933515	10.03552283	9.847152697	10.08509594	-0.818641705	0.251214003	0.790803844
CCL17	5.268042184	5.305807777	6.869521834	8.873140586	5.162127318	8.726721345	1.772872485	0.251320605	0.786485657
CCL20	5.268042184	6.073634335	5.044394119	5.044394119	5.044394119	5.044394119	-0.417629427	0.252427289	0.785329343
PTCD1	6.79597374	6.588207508	6.51700542	6.496364014	6.572411287	6.478297634	-0.118037911	0.253225613	0.78323271
PGAM1	11.55473425	12.00699714	12.65783519	12.56715582	12.51655071	12.42609212	0.430077356	0.253588283	0.779820616
NDUFA4	11.14327362	11.14279636	12.21148768	12.24623344	11.96914322	11.78767739	0.501832128	0.257427013	0.787075696
DGLUCY	10.52125753	10.15299213	8.467873712	8.75939842	9.118770949	8.712762888	-0.850397037	0.257762075	0.783596709
MFN2	8.57309646	8.61205425	9.283297685	9.047880032	9.024030459	9.478297634	0.360586576	0.258118828	0.780222821
MAP3K7	9.793062144	9.545503057	9.733404851	9.346863428	9.467829098	9.727713229	-0.176521432	0.260692974	0.783551764
CCL28	8.891625979	8.639386232	8.604468261	8.846861261	8.150213996	8.180911723	-0.319164497	0.2619747	0.782980563
PARP1	9.83895691	10.28122975	10.13276641	10.84906958	10.61290447	9.954772511	0.387931164	0.262161947	0.779162881
CD27	10.04390125	9.742012844	7.726458785	5.044394119	10.16804729	5.044394119	-2.418512451	0.2625701	0.776040518
TKT	10.07539711	9.980524931	10.09119345	10.82324287	10.25516257	10.0145131	0.315267684	0.262981362	0.772961793
TIMP1	8.229794714	8.944977352	10.43331144	5.51428592	6.491628632	9.879121274	-1.90768256	0.265025603	0.774690224
CCR5	6.10856397	5.824274866	5.10196792	5.044394119	5.271751809	5.468837305	-0.416607841	0.267558781	0.777821155
PFKP	9.950301886	9.784604721	10.0803379	10.32036807	10.18098635	9.95984712	0.194031537	0.269226934	0.778417006
SELPLG	8.629679989	7.929244426	7.634463001	6.600700674	7.079106731	8.286998982	-0.742193676	0.271333991	0.780268559
ARAF	7.117901834	7.580170189	6.477834822	6.364260478	6.550824425	6.900389891	-0.453477351	0.271865044	0.77759249
PLCB2	9.660359607	9.982050785	8.548854286	8.585946907	8.862567036	9.0169494	-0.575267111	0.272154115	0.774256627
MTCP1	6.528277956	5.929244426	6.217445138	5.697997875	5.796842854	6.254332793	-0.308597999	0.273759319	0.774680626
IDH3A	9.450956167	9.486523368	9.665300405	10.25658496	9.959959466	9.387072874	0.333612453	0.274464287	0.77256614
CD69	9.641059051	9.379442765	8.209496385	5.24052511	6.919824354	9.785059281	-1.761529818	0.27609785	0.773073979
NOD2	5.044394119	6.003245007	5.775739688	5.860936446	5.879984089	8.118755247	1.012098989	0.276210614	0.769340558
SELL	12.56969788	11.31188741	8.507312023	8.491848533	10.98297808	5.044394119	-2.623225528	0.279531523	0.774535261
PYCR2	10.43236448	10.10478303	10.46537265	10.72325783	10.42644645	10.41935483	0.188846315	0.283456347	0.781340812
NCAM1	5.044394119	5.38175663	5.10196792	5.044394119	5.044394119	5.053799805	-0.128510209	0.2851404	0.781931406
PSPH	6.841777429	6.572087842	5.491010211	5.846861261	5.406052901	6.002269505	-0.549897272	0.288510006	0.787114478
COX6C	11.37705281	11.59420625	12.18437044	12.50184822	12.11601742	11.73537729	0.399204478	0.289599092	0.786054679
XAF1	8.668325916	7.857905644	5.879575499	5.422363433	5.682384129	7.468837305	-1.277407398	0.290113378	0.783453387
CPT1B	8.419206257	7.871141471	6.604468261	6.218830039	6.953118794	7.400818881	-0.774016092	0.292025658	0.784634596
STAT5B	10.78722127	10.47897844	10.04056738	10.11548353	10.16981855	10.22863791	-0.264275698	0.294168515	0.786420352
CD28	10.69352647	10.6747271	9.520222132	9.699956728	10.16272041	5.578461796	-1.815778924	0.294894385	0.784419063
NT5E	8.353530083	8.518419178	9.397900807	5.633867538	8.178642405	8.786963829	-1.223458765	0.296002096	0.783448334
IL23R	5.456487273	6.471393843	5.044394119	7.902356374	7.618103378	5.044394119	1.197526212	0.298472671	0.786076538
MMP2	5.163705524	5.183817253	7.217445138	5.044394119	5.044394119	5.044394119	-0.810595186	0.299896961	0.785936864
CD8A	5.044394119	6.027091749	5.879575499	5.044394119	5.044394119	5.595949223	-0.422107969	0.302478028	0.788815249
MAP2K7	8.234094852	8.431744766	8.213476236	7.885242353	7.964048354	8.405785134	-0.208080004	0.303277839	0.787042978
ITGB2	11.09562491	10.68600556	9.681194052	9.708738802	9.861106079	10.28834415	-0.534878497	0.304587239	0.786603938
ZAP70	11.84036786	11.61893594	10.21645394	10.6476343	10.74669429	10.46289294	-0.606178735	0.304588887	0.782808155
CXCL10	5.044394119	5.619916368	5.044394119	8.457524272	5.499162305	5.370656911	1.206212961	0.305060641	0.780251254
CD45RA	6.79597374	6.725711032	6.686930421	5.902356374	6.536251624	6.813366829	-0.318880122	0.305349498	0.777253267
CHMP4A	10.87863788	11.00098903	10.84471844	10.75845886	10.63316072	10.95900205	-0.124574575	0.305478631	0.773879199
TRAT1	10.41731668	9.413767025	10.35530893	7.134437851	8.874201736	10.53888761	-1.212955143	0.306300693	0.772284213

IKBKE	10.29092607	9.580170189	8.287079326	8.573179611	8.819586809	8.688515341	-0.692297942	0.306346423	0.768756118
NME2	12.70538297	13.04106647	13.16549141	13.95564193	13.30839451	12.86273576	0.404943784	0.306531323	0.76560875
SLC2A2	5.044394119	5.266279413	5.067202502	5.044394119	5.044394119	5.044394119	-0.081564559	0.311493693	0.774367498
RUNX3	9.614916636	10.04472164	10.74856949	10.47307133	10.21912147	11.45602651	0.580003847	0.31177751	0.771468072
CCR7	9.7075107	9.703684725	8.080337904	10.56889861	9.498222745	9.610003313	0.728530447	0.318203814	0.783724209
HSPE1	11.01044955	11.38867604	11.34536862	11.8574305	11.52683797	11.15791572	0.26589666	0.320616278	0.786027004
TRAF5	9.552583863	9.096354412	7.833771809	7.955795633	8.291410335	8.427924111	-0.602526668	0.321361079	0.784238962
PPARD	6.051230795	5.954335407	6.10196792	5.24052511	5.044394119	6.390834793	-0.477260033	0.321477206	0.780940063
CD4	11.43002358	11.67849639	11.66856565	11.52261079	11.56592424	10.74496171	-0.314529631	0.332369473	0.779547998
PFKFB4	5.044394119	5.225637428	5.233212454	5.422363433	5.044394119	6.053799805	0.339104452	0.322693942	0.776801707
IL10	5.044394119	9.732979032	8.872041826	5.044394119	7.799896178	5.044394119	-1.92024352	0.324005385	0.776445338
HDAC7	9.288860655	9.118722225	7.764932933	8.102213881	8.431869192	7.952228822	-0.562067972	0.325978183	0.777669926
GNG10	7.918593026	8.194386494	7.775739688	7.417609903	8.130945663	7.473575224	-0.288862807	0.328677142	0.780608212
RORA	10.32256763	10.09494484	9.213476236	9.525375101	9.807501335	8.788865867	-0.503082135	0.330439772	0.781306483
HDAC8	9.261737607	8.991172175	8.283297685	8.125720634	8.069017913	8.975797293	-0.455223875	0.332875456	0.783582931
CCR2	6.981328782	5.650943263	5.233212454	5.044394119	5.044394119	5.835619635	-0.647025541	0.332369473	0.779547998
SMAD3	8.921262213	8.779348995	8.976437038	8.060132293	7.575977902	9.3241976	-0.572246817	0.336520226	0.785213861
PDK1	9.439829929	9.027091749	7.30956334	7.637960293	8.121214124	7.842961611	-0.724782997	0.33838612	0.786119721
UBE2I	9.639438955	10.09494484	10.2084997	10.22360379	10.17217686	10.1217766	0.191557918	0.33844467	0.782837236
FOS	10.54740982	12.9751717	7.410090216	5.044394119	6.506656842	11.30605025	-2.691856838	0.339505014	0.781890335
PTGER2	9.910555707	7.363140952	9.10839419	5.044394119	5.96948224	9.924813365	-1.814467042	0.339608668	0.778757808
JUN	11.07059612	12.86226205	10.17827454	8.500865406	8.552635718	12.26939667	-1.596078306	0.340456996	0.777352455
ALDOA	11.65194737	12.11872222	12.46432926	12.46690135	12.23344854	12.32747273	-0.26427459	0.341363301	0.776090924
MAPK3	9.096805999	9.305807777	9.209496385	9.834431812	9.276143578	9.182359486	0.226941572	0.345316915	0.781738719
ACAD10	8.181627432	7.66621002	6.96703834	7.050952866	6.958593924	7.538322405	-0.422335533	0.345468	0.778766847
PCK2	8.545681003	8.305807777	7.981113526	8.253920703	8.069017913	7.900389891	-0.203091266	0.351661069	0.789382652
IF16	7.10856397	6.635513223	6.928819018	7.075302727	6.499162305	6.115727555	-0.327567875	0.35174247	0.786247873
SCD	9.785757343	10.57310062	8.177256048	11.33241437	9.75261588	10.12855159	0.892489279	0.353443973	0.78674558
SEC22B	8.999124364	8.982050785	9.415282885	8.866179438	8.769068188	9.173651038	-0.195853123	0.353843657	0.78435344
TRIM25	9.367298238	9.256225748	8.444360118	8.682230559	8.706990099	8.762006407	-0.30552347	0.354229075	0.781949659
CMIP	6.724420478	6.40013516	6.592293547	5.874875637	5.8210904	6.893335133	-0.375849338	0.35693348	0.784663682
TBX21	6.623137143	8.325173102	8.474522088	8.218830039	8.140611997	9.19962025	0.712076651	0.357019691	0.781623356
TNFRSF6B	6.724420478	6.505745348	6.067202502	5.71359473	5.389933235	6.767804251	-0.475345371	0.358569671	0.781799446
COX5B	10.84036786	11.20879392	11.46495539	11.62564703	11.28597645	11.27109856	0.222868292	0.358660126	0.778804844
NDUFA6	9.07299861	9.266279413	10.41355407	10.25191928	9.91701482	9.925678031	0.447260011	0.359647295	0.777773825
PDK3	8.23838221	8.639386232	9.033831044	9.135885614	8.684037648	8.900389891	0.269571222	0.365113141	0.786397535
GLS	11.05912933	11.02116692	11.03607998	10.40084811	10.82821113	11.18993649	-0.232460165	0.366186186	0.785528432
TOX	7.099165272	9.248639254	8.437570952	10.70337833	9.847890459	7.626051254	1.13064819	0.366278586	0.782571116
CD45R0	11.26594372	12.08397372	11.93123762	11.06165653	11.88753843	11.26564542	-0.355438228	0.371194333	0.78990154
PYCR3	5.396366281	5.38175663	5.38207584	5.383889285	5.389933235	5.578461796	0.064028522	0.374081366	0.792873651
ATPSMF	10.24585457	10.71290326	11.08251556	11.14346262	10.82783723	10.8548132	0.261613225	0.375025094	0.791719642
PTGS1	5.044394119	5.344281925	5.818174954	5.044394119	5.044394119	5.370656911	-0.249135283	0.375605716	0.78981123
HADHB	9.80696418	9.971335759	10.24589771	10.71407943	10.3409887	9.852996204	0.270044813	0.377651138	0.790985849
IL1A	8.06094595	9.320356086	10.31234936	10.69750775	8.940732347	10.64086997	0.861816521	0.377876092	0.788353258
DUSP1	10.9857983	13.01819535	7.316980811	6.261898761	6.32359074	11.55182667	-2.394552763	0.378441496	0.786448734
WAS	10.50355553	10.27998979	9.513781519	9.951691234	9.758905569	9.663853287	-0.307625583	0.37917345	0.784903795
COX7B	10.94178265	11.00474703	11.84600084	11.76338474	11.53212636	11.40795251	0.30364436	0.382136798	0.787972001
CXCR3	7.754666765	8.831064032	6.838933515	7.057078969	7.213407823	7.430363157	-0.574604788	0.382174739	0.785007573
GART	9.742644237	9.647101197	9.193466275	9.913372601	9.719943676	9.538322405	0.196142325	0.384507251	0.786760991
GRPEL1	6.251168365	6.837821398	6.879575499	7.050952866	7.133368325	6.569637946	0.261797958	0.384650423	0.78403841
ISG15	8.489235856	9.5078654	8.287079326	8.303718936	8.936567617	7.186694076	-0.61906665	0.385430216	0.782629294
IL2RA	14.20946519	13.88537854	14.30531592	13.90639129	14.56964667	14.76143139	0.279103237	0.388137445	0.785129736
CCL5	8.407831467	10.15974949	12.87502861	11.88567269	10.65060174	13.26931152	1.454325456	0.388205446	0.782292793
SMAD2	9.601665612	9.906926046	10.55435626	10.33682725	10.10772516	10.49645235	0.292685613	0.388308626	0.779547883
IKZF4	7.93453457	7.296026756	9.040567376	8.422363433	8.43776176	8.979133006	0.522709832	0.389047481	0.778094962
CD68	7.880696418	6.471393843	7.732018311	7.334307256	7.108956659	5.7907654	-0.616693086	0.401017339	0.799030803
ATG7	9.631311074	9.135273401	8.045040852	7.981790841	7.839012308	9.20532825	-0.595164643	0.403945724	0.801862408
ADORA2A	8.203721203	8.067897965	6.709650498	7.111073858	7.793783054	6.265303911	-0.603702948	0.405809033	0.802566564
BID	7.542217147	6.55578603	6.542540512	6.674281806	6.815066612	6.002269505	-0.382975255	0.408637149	0.805166531
CREB1	9.833299275	9.370150011	9.602952028	9.243214197	9.205370504	9.750340345	-0.202492089	0.410945266	0.806726501
AHR	10.09916527	10.61205425	11.41614652	11.69259728	10.81506661	10.9100342	0.430110682	0.415059454	0.811807461
OMA1	8.031601988	7.978997461	7.786466095	8.424734337	7.885743358	7.979133006	0.164181719	0.418545359	0.815626853
CD96	10.54913656	9.716574237	11.23026918	8.846861261	9.411053582	11.07694619	-0.720372981	0.418695671	0.81294196
PTGS2	5.044394119	7.580170189	9.711058692	8.24052511	7.547195001	11.38298636	1.611694491	0.41935231	0.811256104
PGK1	11.70596357	12.25338549	13.24577627	12.63309885	12.51062254	13.58065935	0.50641847	0.419538105	0.808674898
MTHFR	8.168206916	7.627735872	6.732018311	7.303718936	6.958593924	7.10965304	-0.385331733	0.421383058	0.80929887
TRIM33	10.1893988	9.658596836	10.00541943	9.829966642	9.718330826	9.871961482	-0.144385372	0.423746231	0.810910053
CCL3	7.080182168	11.23013882	12.77270846	10.33430726	12.21269202	13.79402439	1.752664739	0.424363787	0.809181129
PTK2B	10.29401867	10.23846147	9.389130597	9.239178684	9.541733689	10.10736849	-0.344443292	0.424736733	0.806999793
TOMM6	8.778415368	8.982050785	9.604468261	9.642041469	9.349870065	9.139773029	0.255583383	0.424983009	0.804594167
COX6B1	11.25857496	11.36196946	11.74925502	11.84752411	11.55985824	11.46348848	0.1670238	0.426098706	0.803845785

TGFB1	11.11265672	10.50892426	11.20050137	10.739538	11.16656957	12.21420203	0.432742415	0.426213426	0.801220999
UQCR10	7.853004685	8.085039098	8.520222132	8.70581738	8.579535722	7.969102641	0.265396609	0.426279777	0.798524089
MR1	8.080182168	7.256225748	8.10196792	7.678261657	7.377724178	7.608927077	-0.257820975	0.428305256	0.799503144
BTBD6	7.419206257	7.747406103	7.622539834	7.65016935	7.593679904	7.889794776	0.114830612	0.432966403	0.805378065
NOTCH2	9.384809249	9.633572812	10.11052993	9.871403445	9.627586319	10.51897236	0.296350043	0.433481435	0.803526562
GFM1	8.968481902	8.793321938	9.073785153	8.93930751	9.004312224	9.166353628	0.091461456	0.437109659	0.807438676
ZBTB16	5.569697884	6.572087842	5.044394119	5.044394119	5.784564524	5.044394119	-0.437609028	0.440513013	0.810909767
OAS1	9.351552433	9.712903255	7.225350336	7.736678343	8.836040741	7.449728482	-0.755786153	0.440545425	0.808172987
MAML3	5.163705524	5.183817253	5.51700542	5.044394119	5.044394119	5.370656911	-0.135027682	0.440831537	0.805918824
CD86	7.099165272	8.157050343	7.580015217	9.464454766	8.690632837	6.820822633	0.713226468	0.44476071	0.810317459
IL6R	7.642677329	8.204878868	6.013431246	7.500865406	6.839012308	5.044394119	-0.82557187	0.449134306	0.815493007
CIITA	8.93453457	8.230780732	6.233212454	9.491848533	7.977594886	8.270758341	0.780558001	0.449663672	0.813677121
RAI1	6.674667443	7.162443602	6.96703834	6.364260478	6.628445322	7.139773029	-0.223890186	0.450712551	0.812810431
ITGB8	7.680981217	7.038868917	7.38207584	7.329254028	7.631876227	5.044394119	-0.698800533	0.451017157	0.810611918
FASN	9.129489809	9.346652829	8.089028865	9.684210924	8.900041741	9.114211322	0.377764161	0.451416797	0.808598438
TIMM17A	9.27431933	9.404693442	9.590764458	9.460993681	9.556251497	9.492372819	0.079946923	0.451813554	0.806593324
EGR1	7.507113346	8.890770278	6.909322842	5.044394119	7.306517227	8.201049369	-0.91841525	0.453588889	0.807054478
UBE2F	9.305301802	8.518419178	8.926396356	7.633867538	8.568835833	9.251576928	-0.431945679	0.45369491	0.804552307
XCL1	5.044394119	5.453906416	5.464538	5.044394119	5.044394119	9.953925113	1.359958272	0.454182048	0.802740363
MMP9	5.044394119	5.225637428	5.169082116	5.044394119	5.044394119	6.767804251	0.472492942	0.458807552	0.808230522
KYAT1	7.284720925	6.929244426	5.686930421	6.422363433	6.414045691	5.760068602	-0.434806015	0.459417759	0.806634481
TFB2M	8.080182168	8.059982341	8.197490531	8.044800639	8.199602023	8.206751728	-0.112166883	0.464103893	0.812181813
CCL4	5.044394119	10.26126134	11.91208046	8.391181777	11.25794072	13.868312	2.099899527	0.465357959	0.811706341
CD6	9.051230795	10.81488729	10.40052151	9.785460717	10.17099819	8.582853565	-0.575775706	0.466201896	0.810520943
SERPINB9	8.562876618	8.643248871	9.520222132	5.968851786	7.457231625	10.24050052	-1.019921231	0.473027688	0.819709218
AKT1	8.463829249	9.059250417	8.678317291	8.930992242	8.847890459	8.841129617	0.139538454	0.473392136	0.817677325
IKZF2	11.53569992	8.747406103	8.794458885	5.617379415	10.83641252	8.485352392	-1.379473526	0.478900981	0.824515605
PPARA	7.748668025	8.167816774	8.013431246	7.729024771	7.547195001	8.148687753	-0.168336173	0.479508779	0.822898937
GZMM	6.411633037	7.98509766	6.84920185	7.839771836	6.171587647	5.044394119	-0.730059648	0.479696759	0.82057452
CSF2	5.044394119	5.044394119	7.013431246	5.044394119	5.289239236	13.18876646	2.14006011	0.480548371	0.819396582
NAA20	8.619854559	8.834446671	9.173174871	9.161699931	9.00827749	8.873754764	0.138752028	0.486689573	0.827216783
ATP5PD	9.521257529	9.610082007	9.837644819	10.09478877	9.731183428	9.561872556	0.139620134	0.48862936	0.827868852
CDC42	11.5478417	11.65333937	12.37543053	11.91189454	11.9259512	12.45032948	0.237187875	0.492954442	0.832545528
IL12A	5.674667443	6.650943263	5.51700542	7.878339493	6.947622806	5.044394119	0.675913431	0.497215809	0.837084843
TICAM1	8.489235856	8.897254311	8.802407639	9.151715843	8.884305695	8.600288158	0.149137297	0.500018085	0.83914707
MTOR	8.739622885	8.310673532	7.894525841	7.751864747	7.92542706	8.522405986	-0.248374822	0.502727098	0.841040302
RDH14	7.748668025	7.711064256	7.84920185	8.376559743	8.084124806	7.454529468	0.202093296	0.503375342	0.839484896
NFKB2	10.33663301	10.39899334	10.33535934	10.58964952	9.92542706	11.67906004	0.374383642	0.504860139	0.839329982
OPA1	9.778415368	9.908531717	10.14740257	10.05478473	10.12060372	9.924813365	0.088617385	0.509164663	0.843849224
MT2A	6.301209048	7.732979032	9.650698104	8.4056571	8.180986345	9.341147669	0.747634977	0.509391079	0.841602652
IL1RN	5.674667443	5.711064256	6.353506687	5.044394119	6.043482821	5.835619635	-0.271913937	0.509404402	0.839019015
COX16	8.276405657	8.775834511	8.859397617	9.371652612	8.918420271	8.365568034	0.248001044	0.50985216	0.837164658
PFKL	10.67466744	11.09212156	10.13276641	10.79786021	10.38435024	9.895102059	-0.274080968	0.511753127	0.837700504
OAT	7.875200431	7.884256971	9.110529934	8.652194186	8.420011358	8.694615541	0.298944583	0.515026887	0.840473325
IFI35	7.991524549	7.948103453	7.248809309	7.553814286	7.688986864	7.405785134	-0.179950342	0.518035657	0.842798072
CCNC	9.257519197	9.248639254	9.948055237	10.02384102	9.816574919	9.288344152	0.224848801	0.519491575	0.842589994
ACVR1B	5.199329434	5.681316912	7.748569487	5.196803732	5.044394119	6.478297634	-0.636573449	0.520374735	0.841457019
NEDD8	10.06939337	10.26000409	11.5105504	11.08170217	10.95071687	10.77645756	0.322976249	0.52177496	0.841164481
CEACAM1	8.988982354	8.576134676	7.598393747	6.293376992	7.249590159	9.472392202	-0.716050474	0.524436203	0.842900484
CD226	9.738109833	10.90451418	11.20050137	10.41641907	10.60681531	9.752291252	-0.355866588	0.528396369	0.846707435
LAMTOR1	8.036534284	7.916533374	8.201503594	8.148850509	8.001662646	7.663853287	-0.113401603	0.531175244	0.848604293
ALDH3A2	9.918593026	9.256225748	9.570737404	9.218830039	9.588392072	9.485352392	-0.150993892	0.531482753	0.846553368
PIK3R1	8.579869689	8.563959962	9.142192398	8.334307256	8.162127318	9.089732346	-0.233285043	0.533188672	0.846735444
SERINC1	11.11906483	11.03225609	11.88769283	11.18985097	10.99401789	11.27483567	-0.193436405	0.533551877	0.844790472
STAT6	10.25328842	9.749199385	8.406618024	9.442393004	9.134578132	8.608927077	-0.407735871	0.535639776	0.845579706
STAM	10.00038712	8.874431541	9.970570031	8.154575497	9.116323628	10.17583308	-0.466218827	0.537044603	0.845289139
HIF1A	10.17157377	10.31914931	11.55357155	10.84641919	10.67741217	11.55964617	0.346394302	0.537932139	0.84418849
MAP2K2	9.236240124	9.720235902	9.231250937	9.228361801	9.208820553	9.400818881	-0.116575242	0.537933238	0.841707302
SMURF1	7.163705524	7.194386494	7.84920185	7.829071948	7.204218651	7.779330505	0.201775745	0.538458419	0.840058296
LIF	6.268042184	6.522619166	9.895764737	8.909145539	6.063946924	11.74471675	1.343794375	0.541143229	0.841778356
RAE1	8.827619366	9.293571105	9.399648469	9.111073858	10.02859286	9.091274511	0.236700763	0.542084502	0.840784126
HMGR	9.22763983	9.471393843	9.271892922	9.645094793	9.316145928	9.284304873	0.091539667	0.542144921	0.838433424
LTB	14.5880293	13.70218113	10.94446793	12.81840482	13.2184085	10.40454517	-0.931106625	0.543955009	0.838794391
TPR	9.417316676	9.5205207	9.084689929	9.49410804	9.159752511	9.834699256	0.155344167	0.544823662	0.837705746
IL32	15.03614955	15.51374546	16.32392899	16.03980673	15.97097509	15.6444361	0.260464639	0.545809792	0.836803486
TRAF3	9.996595538	10.12426041	10.24492587	10.22087787	9.96948224	9.953925113	-0.0738322	0.54698907	0.836201682
FOSB	8.784291934	10.50043155	6.396151025	5.633867538	5.784564524	10.39396225	-1.289493399	0.547285952	0.834258242
ICAM1	8.507113346	8.225637428	8.695492435	8.779915437	7.737567044	10.54733928	0.545526184	0.547529638	0.83224505
DOCK2	11.22332038	11.2681567	10.67326912	11.40445635	10.82895864	11.48065305	0.183107286	0.550034878	0.833671097
SLC27A3	6.031601988	6.344281925	5.976437038	5.044394119	5.586625146	6.728704431	-0.330865751	0.551438894	0.833424691
AFDN	9.333630525	8.99722122	9.14844235	8.919269757	9.002988043	10.68545554	0.376139749	0.554244158	0.835291479

CX3CR1	6.21681686	5.711064256	5.324360342	5.044394119	5.586625146	5.921349509	-0.233290894	0.555823122	0.835304805
SH3BP2	8.671500164	8.173170009	7.889559588	7.514285922	7.614639522	8.738579179	-0.288908379	0.559249578	0.838086691
STAT3	10.23087095	10.56599623	10.92457669	9.968039229	10.22934937	10.88224254	-0.213937575	0.560784987	0.838027003
SRR	6.089704943	6.118722225	6.423896015	6.540758134	5.991015401	6.487696332	0.129048895	0.563411872	0.839594162
RPTOR	7.42673993	8.522619166	8.78111286	8.65016935	8.642120259	8.254332793	0.272050149	0.565789911	0.840782772
TYK2	9.652349064	8.975937661	8.205505525	8.298557231	8.308662499	9.248815788	-0.325918911	0.567240485	0.840590356
ID2	7.485633619	8.938704755	11.10357717	8.753751857	9.223676158	12.44128812	0.963600196	0.571277048	0.844220526
TSC2	8.991524549	8.584194445	8.342645695	8.18845639	8.197288157	8.950530535	-0.194029869	0.572007454	0.842958353
PIDD1	7.190505583	6.305807777	5.353506687	6.251251516	5.796842854	5.7907654	-0.336986759	0.574459748	0.844233663
CD80	11.15749309	10.25370135	10.1411481	10.31845679	10.48737359	11.77357889	0.342355577	0.574586218	0.842093301
CD40LG	7.080182168	7.235905764	10.07269013	8.301140392	7.365410916	11.72224941	1.000007552	0.575621606	0.841293116
CD38	8.186073337	6.38175663	6.919103863	5.044394119	6.815066612	7.850266411	-0.592402229	0.577518322	0.841752732
TNFRSF11A	9.154660384	9.722063255	10.28140314	10.16808198	9.702918137	9.92394818	0.212273839	0.578910198	0.841476026
IL6ST	11.31599037	10.60216597	10.88270296	11.30049504	10.87709581	9.660740675	-0.320842589	0.580012889	0.840781626
LAMP2	10.6157408	10.56802963	11.38428416	11.34811306	10.86548452	10.90082967	0.182124221	0.584616375	0.845151934
IL1R1	9.172694307	7.363140952	5.437570952	5.044394119	8.921227071	5.044394119	-0.987796967	0.588810643	0.848908569
TNFSF9	5.569697884	6.418282506	6.555140549	6.007325933	5.772180799	8.206751728	0.481045841	0.595122864	0.855690171
DHRS4	8.434234466	8.480058704	8.684065087	8.678261657	8.058858047	8.51553054	-0.115236004	0.59654226	0.855419089
CTNNA1	9.026652772	9.955889198	11.32482031	10.0293043	10.34726357	11.22758651	0.432264032	0.59880982	0.856362431
GARS	10.31649738	10.55783386	10.42303701	10.56943443	10.30812648	10.19890516	-0.073634058	0.601993174	0.858606886
KLRB1	6.268042184	6.754565894	7.889559588	5.666289016	6.271751809	7.684434165	-0.429897559	0.605053817	0.860664788
PSMB10	10.12948981	10.14892246	9.762218548	10.55218871	10.28869595	9.679316405	0.15985675	0.607790653	0.862252339
CD3E	12.22790937	12.19504451	12.22165017	12.47049176	12.19569522	11.49993993	-0.159492379	0.610415222	0.863672601
SERINC3	10.62559419	10.52261917	11.257509	10.54512333	10.50244596	10.91961446	-0.146179539	0.610849947	0.861995151
KLRD1	6.127179648	5.711064256	7.233212454	5.044394119	5.044394119	7.459314531	-0.507784529	0.611969454	0.861290343
NDUFB9	9.843185624	9.803713544	10.27284677	10.34310804	10.22538046	9.740546044	0.12976287	0.614353665	0.862364512
SMAD5	6.807561714	7.547565523	8.649229712	8.1716154	7.327827733	8.52011781	0.338401331	0.625753949	0.876055528
CCL23	5.044394119	5.488671834	7.075972712	5.044394119	5.044394119	6.339850864	-0.393466521	0.628814689	0.878029959
MAGED1	8.636193295	8.718406231	8.992738851	8.996209901	8.91701482	8.663853287	0.076579877	0.630337121	0.877851698
MDH2	8.177167784	8.54347638	8.22928675	9.081326515	8.895767086	7.676237012	0.23447948	0.6303711981	0.880247451
STK11	8.23838221	8.543437638	7.919103863	8.084329003	7.999008192	8.305718179	-0.103956112	0.634091247	0.878480582
RDH10	11.33713282	11.08077287	11.32436034	10.80470304	11.45964699	12.045073	0.189052333	0.634367421	0.876580437
GLUD1	10.72289139	11.32336861	11.81096965	11.49495444	11.71550399	11.18452841	0.179252399	0.635837787	0.876336018
IGF1R	5.542217147	5.044394119	5.663846808	5.044394119	5.044394119	5.712762888	-0.149635649	0.635870134	0.87411605
CXCL9	5.044394119	5.38175663	5.464538	5.044394119	5.044394119	6.630300727	0.276133406	0.638460203	0.875414505
OXSM	6.712142149	6.650943263	6.938469188	6.82548761	6.796842854	6.459314531	-0.073303202	0.643157884	0.879588674
NR3C1	8.42673993	8.55578603	10.28329769	9.22700397	8.840495799	10.3050538	0.368909975	0.645051571	0.879916501
CD33	7.824771004	5.044394119	6.30956334	5.044394119	5.044394119	7.425480936	-0.554819763	0.649026879	0.883074935
CTNNB1	11.61450438	11.43787323	11.72436843	11.51567674	11.55376662	11.94264985	0.078449056	0.649434941	0.881375991
MTHFD2	10.1838521	10.28370648	10.70188076	10.14094137	10.37976621	11.14646423	0.165910822	0.65324552	0.884291646
TRAF6	8.467486272	8.28617897	8.555140549	8.448231518	7.69883465	8.712762888	-0.149658912	0.658307153	0.88888174
SOCS2	12.11731999	10.70737921	11.80108588	10.79923138	12.26126746	12.54311964	0.325944465	0.660774588	0.889954635
ITGAM	10.4407604	8.725711032	6.84920185	7.70581738	8.660714125	8.133799128	-0.505114216	0.662422416	0.889921023
JUNB	9.528277956	10.25725634	8.992738851	9.370423217	9.19032421	9.968263621	-0.274920701	0.667979037	0.89512556
FUT4	7.31751086	7.67378324	7.797113339	8.02305886	7.472620518	7.595949223	0.10107372	0.670061151	0.895659629
DIABLO	8.528277956	8.559878785	8.93606269	9.008906969	8.598948425	8.665924637	0.083186867	0.672038072	0.896050762
TOLLIP	8.760640666	8.699980757	9.390888909	8.950868952	8.665743863	8.9091601	-0.108579139	0.672046608	0.893821989
NFIL3	7.021686519	8.497233848	10.21347624	7.803792539	8.742336289	10.96616393	0.59329872	0.675293028	0.895899977
IFNGR1	8.798879471	9.132528024	9.449431107	8.81106054	8.773734591	9.421808396	-0.124745025	0.680884292	0.901070755
ACOT2	7.37315889	7.596200299	7.985774903	8.180060468	7.631876227	7.50631201	0.121038205	0.681030572	0.899027951
MPC2	9.343614614	9.660503902	10.46203114	10.37961825	9.976920571	9.632420779	0.174269979	0.683144087	0.899585778
TNFRSF4	8.021686519	8.276263502	9.067202502	8.050952866	8.485952448	9.522405986	0.231386259	0.689350026	0.905516578
CD3D	12.50999763	12.7384061	13.01128958	13.3919393	12.89576709	12.38785742	0.138623494	0.690842512	0.905241913
SLAMF6	9.480213343	9.541369257	7.84920185	9.150283887	8.682384129	8.257083404	-0.260344343	0.692077435	0.90463193
RPL3	10.83400769	10.70922291	11.67110019	11.74973879	10.9551744	11.01288661	0.167823005	0.693331084	0.904049355
CCL18	5.089704943	5.344281925	10.5369932	5.044394119	5.044394119	8.289688069	-0.86416792	0.698924045	0.909113917
CD3G	10.55430443	10.28741363	9.878322616	10.54621256	10.48120517	9.045868532	-0.2155848	0.703765405	0.913178525
IRF4	11.8428337	11.33416189	10.91849449	11.45549659	11.5759779	10.55294634	-0.170356415	0.705198287	0.912811409
IL21R	9.127179648	9.649023509	8.410090216	10.0977634	9.275046888	8.513231424	0.233249448	0.708902988	0.915379586
TRIM22	11.19271661	9.880989257	7.943270174	10.11474952	9.252936187	8.373194634	-0.425365235	0.711113316	0.916010373
AREG	5.044394119	5.044394119	7.075972712	5.044394119	5.8210904	5.449728482	-0.28318265	0.711661854	0.914502673
DECR1	10.25222878	10.34665283	9.949249027	10.56943443	10.52982944	9.783152216	0.111428485	0.713334714	0.914443537
FAS	10.59916744	10.61205425	9.770346429	11.45259495	10.3145456	9.855720841	0.213764425	0.717479763	0.917546236
DDIT4	6.724420478	7.453906416	7.47120173	5.44122246	6.453358615	8.626051254	-0.376298765	0.718152198	0.916203764
MDFIC	5.42673993	5.044394119	5.169082116	5.044394119	5.044394119	5.907410318	0.118660797	0.72043522	0.916917553
SH2D1A	9.411633037	9.871141471	10.45195993	10.54239663	10.05119092	9.606772192	0.155208432	0.720711418	0.91507989
STAT4	9.199329434	8.178503453	9.652165003	7.781766233	7.805983508	10.34825933	-0.364662939	0.722416219	0.915060544
CXCL3	5.044394119	5.929244426	5.51700542	6.575315356	5.044394119	5.468837305	0.199300938	0.72254894	0.913054717
TGIF2	9.38093624	9.574112678	9.689790075	9.686188573	9.712671605	8.938586214	-0.1024642	0.722879353	0.91130762
NKG7	6.07059612	9.135273401	11.31420373	8.49410804	9.242874732	10.66333498	0.62674817	0.723137382	0.909477748
CALM1	8.552583863	9.170495874	9.84664161	9.137331925	9.178642405	9.726721345	0.157658109	0.725942377	0.910852228

SKP1	11.47749555	11.79636056	12.6372433	12.21386909	11.89308898	12.2085291	0.13479592	0.728370026	0.911747891
PRKAB2	8.131796276	7.747406103	8.461194557	7.850392952	7.319341267	8.684434165	-0.162076184	0.73561884	0.918660148
NOTCH1	7.718294376	8.167816774	8.879575499	8.063179168	7.888614394	8.418126484	-0.131922201	0.74093066	0.923126724
ACACA	6.38093624	6.768779754	5.542540512	6.196803732	5.600700332	6.430363157	-0.154796428	0.74168825	0.921911564
CDC26	9.510662413	9.786352383	9.833771809	9.701912925	9.772180799	9.530386145	-0.042102245	0.750730747	0.930976124
RARG	7.276405657	7.015217649	7.732018311	5.832647402	6.543556424	8.740546044	-0.302297249	0.753817357	0.932629846
SMARCA4	9.857192482	9.801986799	9.29085108	9.627706553	9.468788656	10.1217766	0.089413816	0.754318659	0.931084748
CD276	5.089704943	5.619916368	7.66965243	5.12863223	5.980288995	8.554065142	0.427904209	0.757795037	0.933210555
ICOSLG	7.341623316	7.42727129	6.879575499	8.093299157	7.315079241	8.24728482	-0.263454409	0.7713480261	0.932757272
OAS2	9.906520194	9.837821398	9.056164231	9.814680855	9.537166749	9.117242195	-0.110472008	0.76140533	0.933335566
CD99	6.542217147	7.40013516	8.838933515	6.600700674	7.099075147	8.270758341	-0.270250553	0.761882004	0.931772934
TNFRSF10B	8.996595538	7.99722122	7.833771809	8.331782855	8.058858047	8.075778175	-0.12038983	0.763657832	0.931802676
HAVCR2	9.400198142	9.462676626	10.76493293	8.035522825	9.398015582	11.20923944	-0.328343285	0.763913614	0.929981791
AKT2	9.817625397	10.01819535	9.808998308	9.940136407	9.779933075	9.845705247	-0.026348108	0.76585186	0.930212762
RELTA	8.524772013	8.982050785	9.250747113	8.701912925	8.88717959	8.955619412	-0.070952661	0.768323219	0.931088731
SOC55	8.051230795	8.032992351	8.110529934	8.084329003	7.740748292	8.232137047	-0.045846246	0.771349044	0.932631117
FAM30A	5.044394119	5.225637428	5.067202502	5.044394119	5.180986345	5.044394119	-0.022486489	0.773275575	0.932840376
NFKBIA	11.17605071	12.29664002	11.50203411	11.28947957	11.17423723	13.18804597	0.225679307	0.773484863	0.930981781
MAPK12	5.044394119	7.235905764	5.957578011	5.902356374	6.593679904	5.044394119	-0.232482499	0.77986037	0.936536607
CD40	5.748668025	5.588207508	6.985774903	5.044394119	5.104024363	7.380781128	-0.264483608	0.780365415	0.935032434
UBA5	8.994062271	9.053456453	9.605982902	8.871403445	8.955858956	9.566315038	-0.086641396	0.782216685	0.935144441
SHMT2	9.639438955	9.592209438	9.277606573	9.601748763	9.605070814	9.416897089	0.0381539	0.782887941	0.933848396
CXCL8	9.704414787	10.86866899	10.63372068	12.06489021	9.779159719	10.06953273	0.235592736	0.783437967	0.932413867
ALDOC	8.369254435	7.890770278	7.791799539	7.364260478	6.315079241	9.536059354	-0.278808393	0.787011589	0.934576262
NPRL3	8.489235856	8.367817439	7.981113526	8.744291528	8.373631423	7.955619412	0.078458514	0.789226396	0.935119026
RPL23	14.24897879	14.47647722	14.95196867	14.63706599	14.48979814	14.36161976	-0.062980264	0.790599145	0.934663878
HACD4	9.521257529	9.918128394	9.017989528	9.779915437	9.943487031	8.220909791	-0.171021063	0.792316454	0.934617192
CXCR4	12.72442048	12.33684764	12.37387554	13.30886224	12.67054763	11.83124259	0.125169603	0.792594416	0.932876613
COX7C	9.830462116	9.798527097	10.10732513	10.27180969	10.00629622	9.633479638	0.058423734	0.794161673	0.932657858
CCR4	12.66832592	12.46622435	11.34944339	12.30693565	12.29032519	11.48065305	-0.13535992	0.797050629	0.933988842
PPP3CA	7.616564489	7.782854939	8.628513735	7.65016935	7.802943053	9.01207268	0.14575064	0.797915963	0.932947895
ERAP2	10.614092	11.77891015	8.856855423	8.994614882	11.58750888	9.734637387	-0.311032143	0.799703618	0.932987554
FNIP1	9.286792275	9.183817253	9.915443747	9.678261657	8.881426063	9.556300146	-0.090021803	0.80267758	0.934408036
NRP1	5.456487273	5.740210601	5.044394119	5.044394119	5.044394119	5.879121274	-0.091060827	0.804221568	0.934161297
NFAT5	9.041449774	8.409237367	8.221403151	8.489585482	8.342559977	8.632420779	-0.069174685	0.804643359	0.932614961
UBE2V1	11.33413137	11.49028109	11.44858718	11.54130451	11.38180535	11.27923982	-0.023549988	0.805235642	0.931272525
PIK3R3	6.349572069	6.588207508	7.135915252	7.229718355	7.22708276	5.989094116	0.1240668	0.806510902	0.930724077
LAG3	10.25434728	12.38752511	11.70929823	11.66328027	12.22722453	9.679316405	-0.260449808	0.806712332	0.928941474
CD9	7.661956392	7.732979032	9.766288213	7.134437851	8.871301846	9.946276049	0.26359737	0.817699245	0.939559391
ACSF2	6.864145242	6.754565894	6.396151025	7.032416914	6.414045691	6.380781128	-0.062539476	0.818113843	0.938009838
SLC25A6	11.8061183	12.01856713	12.35598419	12.56796045	12.07973495	11.24397104	-0.096334394	0.829200017	0.948676148
IL12RB2	9.965898741	10.15434613	10.03045105	10.0647002	10.27504689	9.894218867	0.027756677	0.832838224	0.950793852
CD84	9.458326273	10.08645838	9.988099956	10.01442699	9.930309828	9.675209085	-0.050050083	0.834174165	0.950279777
TRIM26	7.955519595	8.015217649	7.899475057	8.53418548	8.056306862	7.478297634	0.066192558	0.839884468	0.954740464
IFNGR2	8.407831467	6.837821398	6.818174954	7.885242353	8.063946924	6.569637946	0.151666468	0.840552826	0.953462908
KLRC1	5.365339385	6.027091749	5.437570952	5.044394119	5.044394119	6.420582136	-0.106877237	0.842533308	0.953676
IFNAR1	10.13179628	9.727531467	10.58001522	10.25658496	9.758120856	10.23771808	-0.062306355	0.84321826	0.952424871
IL3RA	5.044394119	5.38175663	8.851757555	5.044394119	5.044394119	10.55853169	0.456470542	0.846061804	0.953612033
GZMA	5.044394119	8.963633151	11.93002883	5.044394119	5.044394119	13.68238924	-0.722292873	0.846684105	0.952295864
IL13	5.044394119	5.38175663	10.61202561	5.044394119	5.044394119	12.90970647	0.65343945	0.847298254	0.950976099
SLC25A20	9.701312125	9.545503057	9.351702191	9.601748763	9.850837743	9.265303911	0.039790985	0.850163579	0.952183209
CRLF2	6.251168365	5.183817253	8.237127504	5.044394119	5.044394119	10.84707511	0.421250076	0.852943265	0.953289531
CTNND1	6.181627432	5.650943263	5.264239349	5.044394119	5.044394119	6.663853287	-0.11472284	0.85808822	0.95702921
SLC2A1	6.089704943	6.344281925	6.437570952	5.846861261	6.262927959	6.955619412	0.064616937	0.858391001	0.955364043
PTPN6	10.09089088	9.978997461	9.112662521	10.21883004	10.05502958	8.571848973	-0.112280759	0.862524442	0.957960341
PPT2	5.92924027	5.183817253	5.592293547	5.549475351	5.289239236	5.728704431	-0.045977351	0.86327181	0.956792922
MAML2	7.858585717	6.877714125	7.791799539	7.013639707	5.721554726	9.213848127	-0.19301894	0.865294374	0.957040763
SIRPG	9.634567723	9.824274866	7.764932933	9.471352126	9.343606546	7.97245385	-0.145454333	0.866804025	0.956721455
DVL2	8.225481722	8.409237367	8.217445138	8.568898614	8.017487613	8.172194506	-0.031194498	0.867745455	0.955777603
SRC	5.044394119	5.266279413	6.152593993	5.044394119	5.044394119	6.712762888	0.1127612	0.870908006	0.957279048
MTHFD1L	9.016703112	9.087876258	8.097667783	9.693089075	9.105259019	6.955619412	-0.149426549	0.874954194	0.959743569
NFATC2IP	8.693526471	8.467041818	8.279506106	8.041714659	8.32359074	8.933436792	-0.047110735	0.878453813	0.961599647
STAT1	14.18558773	13.49776729	12.91116184	14.06731072	13.6391932	12.6118848	-0.092042716	0.879032751	0.960257543
IL2RB	10.84036786	11.23334552	11.96644888	10.67428181	11.28815246	11.85435917	-0.074456278	0.882873846	0.962477226
CTSW	7.208099643	8.55578603	9.040567376	6.633867538	7.805983508	11.00144956	0.212282518	0.88805308	0.9661143638
COX4I1	11.82263104	11.90652435	12.21148768	12.25358732	11.78841274	11.81453434	-0.028036221	0.890766045	0.967117421
FUT7	8.471134049	10.47356494	10.20750233	9.877474308	10.28923924	8.63665156	-0.116278741	0.891539206	0.965985454
FOXP3	10.77473032	10.43509079	9.373208602	10.13805454	10.84419787	9.345031103	-0.085248737	0.894705372	0.967445646
PDCD1LG2	5.772514767	5.418282506	6.663846808	5.044394119	5.044394119	7.41073435	-0.118373831	0.898516299	0.969595682
CBR4	9.07059612	8.926077147	8.305840254	9.015213843	8.588392072	8.805872292	0.035654896	0.899456038	0.968644964
ACSL5	9.845997895	9.658596836	9.495920125	10.58064092	9.36231611	9.234930262	0.059124147	0.899751824	0.967006001

IL15	5.485633619	5.978997461	5.995052716	5.888681437	5.044394119	6.360461144	-0.055382365	0.901388647	0.966812017
CLCF1	5.044394119	5.954335407	7.709650498	5.044394119	5.044394119	8.13678917	-0.160934205	0.90702018	0.97089484
TNFRSF9	9.621496784	10.38406679	10.46704051	9.178656386	10.93309543	10.58449704	0.074548255	0.90710823	0.969039314
MTHFS	8.036534284	8.050550722	8.681194052	8.007325933	8.076591133	8.580659352	-0.034567546	0.907370807	0.967377293
GZMB	5.699758424	9.021166915	15.62048058	7.349361602	7.985662167	16.54579351	0.51313712	0.907743724	0.965839322
NDUFA2	7.960718502	8.146202961	7.437570952	8.293376992	8.056306862	7.3241976	0.043129679	0.910584368	0.966927912
CPT1A	8.942439768	8.932404767	8.859397617	8.909145539	8.868396115	8.970779219	0.004692907	0.911442808	0.965911501
TNFRSF18	9.762130285	10.14484129	11.1685697	9.435355453	10.24006738	11.67418043	0.091353996	0.912161917	0.964751769
IFNG	5.044394119	7.215295484	9.069400058	5.044394119	5.340464559	10.23073841	-0.237830858	0.913006709	0.963729304
CCR6	5.596664931	5.768779754	5.044394119	5.044394119	6.12365317	5.103552841	-0.046079558	0.916509989	0.965511513
IRF6	5.044394119	5.266279413	5.233212454	5.044394119	5.044394119	5.41073435	-0.014787799	0.921139843	0.96847114
PRF1	10.52213695	9.709222909	9.264239349	7.821894346	10.33941571	11.71276289	0.12615791	0.92115653	0.96657845
DAP3	10.6499372	10.56802963	10.38737014	10.5053528	10.38942658	10.6767507	-0.011268962	0.925970293	0.969716921
LAMP1	11.03776473	10.91173771	11.55827344	11.30404093	11.1297328	11.0145131	-0.019829679	0.930959593	0.973026529
SOS2	7.242656865	7.547565523	9.073785153	7.196803732	7.648909425	8.815234395	-0.067686663	0.931870326	0.972068654
TNF	10.90652019	10.43174477	9.766288213	9.445898947	10.41703161	11.42150193	0.059959771	0.931905633	0.9702303125
NCR3	8.246918892	7.877714125	6.720877753	7.952513049	8.640417964	6.459314531	0.068911591	0.934766867	0.971281198
NDUFA1	11.63416104	11.82257257	12.41873431	12.19489506	11.83789869	11.90609659	0.021140804	0.939229248	0.974015516
GFER	6.31751086	6.725711032	7.084689929	6.796487739	6.734378767	6.542837886	-0.018069143	0.942255212	0.975252476
TNFSF14	7.760640666	6.325173102	8.237127504	6.364260478	6.332052319	9.901269315	0.091546947	0.947896255	0.979186035
GATA3	11.06758737	10.87443154	13.12750301	10.41939431	11.338891	13.12073872	-0.063499297	0.955595158	0.985226016
MID1IP1	8.64590845	8.696267254	9.189430762	8.376559743	8.697198013	9.521262352	0.021137881	0.958578623	0.986390381
TRIM34	8.136398178	8.062138696	7.410090216	8.207858921	7.928220275	7.510928638	0.012793581	0.968754461	0.994937014
PRICKLE3	6.636193295	6.810599929	7.217445138	6.478216667	6.682384129	7.464083775	-0.013184597	0.971452996	0.995786115
ATP6V1F	9.92392647	10.28864723	10.70753563	10.41224339	10.35403069	10.13005284	-0.007927467	0.975455114	0.997965617
PRKCB	9.83754458	9.608107065	9.062797323	10.80333707	9.526146746	8.248815788	0.023283546	0.977395731	0.998031725
NRF1	5.886171548	6.363140952	7.135915252	6.505352797	6.32359074	6.587232006	0.01031593	0.979225401	0.997984508
CCR8	9.96977175	7.67378324	8.726458785	6.531987924	9.053751157	10.89642584	0.037383714	0.980374716	0.997245409
ATP5MG	9.483829122	9.685069047	9.95876395	9.982595692	9.580423807	9.577361762	0.004239714	0.983482352	0.99849735
SLC7A5	9.712142149	10.14484129	10.54570085	9.769693401	10.59719439	10.01776059	-0.006011971	0.986877091	1.000035453
PIK3R2	6.699758424	6.941844462	6.294612998	7.202341916	6.902884491	5.820822633	-0.003388948	0.994476043	1.005819876
PHGDH	6.674667443	8.422783899	6.786466095	8.160277856	6.902884491	6.835619635	0.004954849	0.994769639	1.004207681
IL4R	9.115573028	8.310673532	9.925183497	8.459838138	8.393980068	10.48417899	-0.00447762	0.995950879	1.003495961
CD274	5.301209048	5.305807777	6.628513735	5.044394119	5.044394119	7.15754773	0.003601803	0.996750862	1.002403514
PYCR1	6.31751086	6.488671834	5.567631493	6.324183039	6.152604544	5.893335133	-0.00123049	0.997016473	1.000778799
SLAMF7	5.971060446	5.044394119	6.899475057	5.044394119	6.96948224	5.893335133	-0.00257271	0.997502826	0.999381362
JAK2	10.47022297	9.745610589	8.794458885	9.747136146	9.891479728	9.3757279	0.001350443	0.998009997	0.998009997

ExpTregx2 vs ExpTregx2 mid cycle

Gene	expTreg x2	expTreg x2	expTreg x2restim	expTreg x2restim	log2FC	p-value	FDR
CD274	5.301209048	5.305807777	5.044394119	5.044394119	-0.259114293	7.87375E-05	0.040628556
IL36A	5.514202771	5.522619166	5.044394119	5.044394119	-0.474016849	7.88049E-05	0.02033167
KLRG1	6.623137143	6.55578603	5.044394119	5.044394119	-1.545067467	0.000474707	0.081649547
FOXO1	9.917256579	9.903709334	9.553477991	9.567847039	-0.349820441	0.000795779	0.102655541
CD28	10.69352647	10.6747271	9.807234583	9.858489972	-0.851264509	0.001026681	0.105953445
SOCS5	8.051230795	8.032992351	7.699921559	7.712013638	-0.336143974	0.00105781	0.090971661
HNF1A	5.79597374	5.851241914	5.044394119	5.044394119	-0.779213707	0.001255332	0.092535923
LTA	11.30785389	11.40810273	13.49559144	13.36635482	2.072994823	0.001552696	0.100148868
ALDH8A1	6.68726748	6.604149052	5.464472985	5.418099919	-1.204421814	0.001557593	0.089301977
VAV1	9.424860197	9.404693442	8.959237677	8.996109659	-0.437103151	0.002303137	0.118841861
MID1IP1	8.64590845	8.696267254	9.334164963	9.291307389	0.641648324	0.00264471	0.124060938
PTK2B	10.29401867	10.23846147	9.436330021	9.356096115	-0.870027001	0.003130793	0.134624118
PTPRC	13.8386922	13.74302562	12.73006672	12.81322206	-1.019214521	0.003844421	0.152593958
RDH5	5.92924027	5.824274866	5.044394119	5.044394119	-0.832363449	0.003952081	0.145662425
ADORA2A	8.203721203	8.067897965	6.882785616	6.975048044	-1.206892754	0.004595426	0.158082657
LAMP2	10.6157408	10.56802963	11.00729382	11.0457741	0.434648745	0.004935036	0.159154903
HIF1A	10.17157377	10.31914931	11.26619604	11.26744487	1.021458913	0.00517815	0.157172079
IRF9	11.0098227	10.7993928	9.411033726	9.448979232	-1.47460127	0.005215486	0.149510601
PSMB10	10.12948981	10.14892246	9.751891549	9.690639987	-0.417940367	0.005858238	0.159097415
MMP2	5.163705524	5.183817253	5.044394119	5.044394119	-0.129367269	0.005987914	0.154488174
MAML3	5.163705524	5.183817253	5.044394119	5.044394119	-0.129367269	0.005987914	0.147131595
CASP3	11.08018217	10.89239402	12.32087022	12.24097711	1.294635571	0.006154714	0.144356013
OXSM	6.712142149	6.650943263	6.297823116	6.272249053	-0.396506622	0.006923059	0.155317314
IRF3	7.971060446	7.658596836	6.005041366	6.021440949	-1.801587483	0.007456655	0.160318085
IRF7	8.301209048	8.363140952	6.660393195	6.332370045	-1.83579338	0.008165229	0.168530334
TFRC	11.68334178	11.6514228	13.20459103	12.94512573	1.407476089	0.008514618	0.168982423
CTSD	10.02292969	10.01073954	9.690140538	9.623047206	-0.360240743	0.008839541	0.168933443
PCCA	7.31751086	7.050550722	5.206675227	5.445580656	-1.857902849	0.009167766	0.168948836
DGLUCY	10.52125753	10.15299213	8.484013171	8.455752461	-1.867242012	0.009640398	0.171532606
CHMP3	9.471134049	9.604149052	8.895001566	8.885078347	-0.647601594	0.010439823	0.179564959
IL10RA	12.41092101	11.98813811	8.765262313	9.277993035	-3.177901886	0.010756576	0.179044941
PLCB2	9.660359607	9.982050785	8.294138069	8.291307389	-1.528482467	0.010894034	0.175666301
OAS1	9.351552433	9.712903255	7.817539592	7.831402367	-1.707756865	0.011024437	0.172382101
TPSAB1	5.596664931	5.488671834	5.044394119	5.044394119	-0.498274263	0.011540538	0.175144641
HAVCR2	9.400198142	9.462676626	10.51758432	10.31198481	0.983347179	0.011728365	0.172909615
KLF2	12.65134461	12.39011342	6.660393195	7.799809242	-5.290627798	0.01198603	0.171799759
SIK1	7.38093624	7.246101531	5.516003286	5.867407321	-1.621813583	0.013198853	0.184070489
IL12RB2	9.965898741	10.15434613	10.93044745	10.86677219	0.838487383	0.013779399	0.18710973
SMC2	9.077791621	9.38175663	10.82202499	10.63129763	1.496887184	0.014065125	0.186092421
LILRB3	6.251168365	6.588207508	5.044394119	5.044394119	-1.375293817	0.014684554	0.189430749
CD69	9.641059051	9.379442765	8.393919705	8.465853051	-1.08036453	0.015404723	0.193874079
CD276	5.089704943	5.619916368	7.858038954	7.588024921	2.368221282	0.01541711	0.189410205
XAF1	8.668325916	7.857905644	5.044394119	5.044394119	-3.218721661	0.015481616	0.18577939
LPAR6	11.23194639	10.66145649	8.694340527	8.575641196	-2.311710576	0.015515809	0.181958127
PSMA3	9.950301886	10.09070785	11.391335	11.10729154	1.228808404	0.016218662	0.185973996
CDKN1A	8.396366281	8.789841369	10.40506688	10.20449522	1.711677229	0.016239235	0.182161849
TP53	9.948994505	10.17717194	10.9504852	10.93682872	0.88057374	0.016432298	0.180405656
PML	9.718294376	9.469219472	8.534862313	8.621542047	-1.015554744	0.016444636	0.17677984
IL6R	7.642677329	8.204878868	5.749202462	5.445580656	-2.32638654	0.01834137	0.193145861
NDUFA6	9.07299861	9.266279413	10.21351961	10.03280976	0.953525675	0.018712514	0.193113145
GADD45B	9.134099062	9.866192255	6.863022361	6.897569291	-2.619849832	0.01900918	0.192328178
TOMM6	8.778415368	8.982050785	9.766592599	9.651350856	0.828738651	0.019351851	0.192029902
ZAP70	11.84036786	11.61893594	10.22420989	10.53624238	-1.349425768	0.019512562	0.189971355
SP100	10.18829116	10.01521765	9.190907912	8.941661875	-1.035469512	0.020801911	0.198773815

OAS2	9.906520194	9.837821398	9.432982699	9.298860783	-0.506249055	0.021441215	0.201157581
RBX1	10.5534444	10.58920903	11.24344611	11.07246055	0.586626608	0.021457365	0.197714288
CD52	13.51619041	13.02357681	10.85741482	10.20147598	-2.740438216	0.021675265	0.196218192
ENTPD1	10.33463205	10.89563603	12.43883543	12.54281776	1.875692549	0.022359353	0.198921142
CCL17	5.268042184	5.305807777	9.294138069	8.225454841	3.472871475	0.022892183	0.200209597
PDK1	9.439829929	9.027091749	7.496894463	7.767508751	-1.601259233	0.022936239	0.197251656
CCR5	6.10856397	5.824274866	5.044394119	5.044394119	-0.922025299	0.022951939	0.19415083
PKM	11.84740198	12.2603185	13.44694807	13.36410641	1.351666998	0.023420389	0.194918078
COX7A2	10.74716443	10.9173311	11.90318924	11.65687208	0.947782894	0.024048086	0.196965272
TNFRSF6B	6.724420478	6.505745348	5.87293783	5.740028014	-0.808599991	0.024135618	0.194593422
IRF1	9.034070244	9.699980757	7.230007731	6.946478892	-2.278782189	0.024303035	0.192928709
LTB	14.5880293	13.70218113	11.35332691	11.39626034	-2.770311595	0.024677916	0.192936435
IL5	5.044394119	5.044394119	7.214494732	6.612477964	1.869092229	0.024968308	0.192293237
CD247	10.72594795	10.21918241	8.921518011	8.841781513	-1.590915415	0.025022903	0.189879674
PRKCD	8.221155796	8.291111266	8.525463615	8.594177148	0.30368685	0.025087927	0.187614066
NEDD8	10.06939337	10.26000409	11.16339859	10.94768064	0.890840885	0.025125103	0.185207903
EBI3	7.986435672	7.703684725	10.02740918	9.474216524	1.905752653	0.025554121	0.185717271
HMGCR	9.22763983	9.471393843	10.0850594	10.13867306	0.76234939	0.02576396	0.184641715
OAS3	7.051230795	7.28617897	7.877870126	7.931979322	0.736219841	0.02577882	0.182217416
WAS	10.50355553	10.27998979	9.720660225	9.717660201	-0.672612447	0.026530366	0.184995528
SERINC1	11.11906483	11.03225609	10.64745414	10.74279976	-0.38053351	0.027525258	0.189373776
TIMP1	8.229794714	8.944977352	6.451297596	6.127051137	-2.298211667	0.027967673	0.189885781
ALDOC	8.369254435	7.890770278	6.565756321	6.193393632	-1.75043738	0.028707958	0.192380598
ITGB2	11.09562491	10.68600556	9.719286884	9.717660201	-1.172341694	0.029191222	0.19311116
KIR3DL1	6.583244416	7.235905764	5.044394119	5.044394119	-1.86518097	0.029273281	0.191202697
CD3E	12.22790937	12.19504451	12.07971805	12.03705008	-0.153092872	0.029574703	0.190756833
TIMM23	8.996595538	9.138013563	10.38874566	10.01342914	1.133782846	0.029889215	0.190405369
PFKP	9.950301886	9.784604721	10.64673189	10.46752963	0.689677455	0.029911305	0.188222361
IL3RA	5.044394119	5.38175663	7.348449189	6.772942637	1.847620538	0.031079451	0.193216828
RDH14	7.748668025	7.711064256	8.075430694	7.975048044	0.295373229	0.031384617	0.192791219
RAC2	10.40306537	10.61205425	11.12916268	11.06749429	0.590768673	0.032368033	0.196492999
USP15	11.43936447	10.94027546	9.697133742	9.315712701	-1.683396744	0.033091013	0.198546078
TFDP1	8.757656808	9.230780732	10.63001955	10.33420904	1.487895526	0.033407692	0.198142173
CS	10.28160831	10.37131488	11.21351961	10.94286764	0.751732025	0.034135926	0.200160658
JAK1	10.80177936	10.77407405	9.654656825	10.01572277	-0.95273691	0.034271505	0.198697714
CSF2	5.044394119	5.044394119	9.016268622	7.745566198	3.33652329	0.034400776	0.197231118
TFAM	8.284720925	8.349019844	9.146637645	8.887585203	0.700241039	0.034456803	0.19538143
PGAM1	11.55473425	12.00699714	13.32989696	13.04085573	1.404510652	0.034624985	0.194201005
TGFB1	9.751670513	9.668107055	9.220331672	9.007679048	-0.595883424	0.034845604	0.193336902
NCAPD2	9.413530073	9.709222909	10.3287717	10.44728094	0.826649833	0.035178134	0.193105501
CD40LG	7.080182168	7.235905764	9.462832627	8.72328475	1.935014722	0.036085253	0.195999899
PSMA2	10.9555196	10.99948309	12.35310555	11.904084	1.151093433	0.036325998	0.195252242
CCR3	5.365339385	5.522619166	5.044394119	5.044394119	-0.399585156	0.03661758	0.194790425
TET2	9.872444565	10.04909566	9.488857144	9.521791222	-0.455445929	0.03678306	0.193674073
LCK	11.160885	11.43006884	10.48482163	10.23040066	-0.937865774	0.03685063	0.19206995
TAOK2	8.212464836	7.884256971	6.902281792	6.472547703	-1.360946156	0.037273434	0.192330918
IL2RA	14.20946519	13.88537854	14.91579651	14.8448485	0.832900643	0.03745081	0.19133285
KYAT1	7.284720925	6.929244426	5.911931962	6.160603697	-1.070714846	0.038675442	0.195652238
GPI	9.88753709	10.17317001	10.89317575	10.73933424	0.78590145	0.040060374	0.200690805
HLA-DRA	13.22237377	13.08290756	14.49237898	14.05179379	1.119445719	0.04006267	0.198772477
CD27	10.04390125	9.742012844	8.98232129	8.657239415	-1.073176696	0.040165979	0.197387097
MAX	11.29195768	11.0928279	10.67817374	10.54261894	-0.581996448	0.040260016	0.19598272
UQCRCQ	9.939809512	10.19438649	11.77785078	11.23434515	1.43899996	0.040842478	0.196959985
IL18BP	5.971060446	5.650943263	5.044394119	5.044394119	-0.766607735	0.040934471	0.195575806
HSPA9	8.981328782	8.975937661	10.16188289	9.752459164	0.978537806	0.041093658	0.194535116
MTHFD1	9.006684356	9.495098103	10.65393817	10.42242844	1.287292077	0.041359091	0.194011736

PSMA6	9.449107743	9.839505806	10.87848548	10.625302	1.107586968	0.041402336	0.192464912
CCR7	9.7075107	9.703684725	10.52860332	10.24122216	0.679315027	0.041953782	0.193287066
PRICKLE3	6.636193295	6.810599929	6.158846702	5.927113567	-0.680416478	0.042545488	0.19427851
NDUFA4	11.14327362	11.14279636	12.16692905	11.8061172	0.843488135	0.042827775	0.193852034
IL2RG	13.08420726	13.03721855	12.67428078	12.80379643	-0.321674302	0.042930456	0.192627091
COX6C	11.37705281	11.59420625	12.61329619	12.26600049	0.954018811	0.043123926	0.19182712
GART	9.742644237	9.647101197	10.32516496	10.11960633	0.527512928	0.043193848	0.190495945
BCL2	10.40592692	9.930825462	7.722032261	8.479211434	-2.067754343	0.043682401	0.191017955
FH	9.417316676	9.38175663	10.64889756	10.20348951	1.02665688	0.044236371	0.191814855
OPA1	9.778415368	9.908531717	10.55809462	10.3305287	0.600838116	0.044438747	0.191086611
RUNX3	9.614916636	10.04472164	10.90711495	10.78979281	1.018634736	0.044646703	0.190394203
HDAC8	9.261737607	8.991172175	8.509661759	8.521791222	-0.6107284	0.045813243	0.193767487
CEACAM1	8.988982354	8.576134676	6.931040785	7.492447261	-1.570814492	0.045845397	0.192327032
IL12RB1	10.0291295	9.39097516	8.297823116	8.249041662	-1.436619943	0.046206003	0.192276594
GOT1	6.38093624	6.725711032	7.534862313	7.339712021	0.883963531	0.046724544	0.192878917
FASN	9.129489809	9.346652829	9.778510294	9.9644008	0.633384228	0.047335801	0.193851376
PGK1	11.70596357	12.25338549	13.24380435	13.15632212	1.220388704	0.047909997	0.194657939
NCAPG2	8.177167784	8.688811449	9.516003286	9.630549537	1.140286795	0.049002551	0.197541533
ICOSLG	7.341623316	7.42727129	6.490468193	5.965587715	-1.156419349	0.049018873	0.196075494
FAS	10.59916744	10.61205425	9.726140555	10.0552821	-0.714899515	0.049190666	0.195249104
CASP8	13.09281596	13.27424107	10.61385061	11.56628314	-2.093461637	0.04966303	0.195619264
LIF	6.268042184	6.522619166	9.644562966	8.431905719	2.642903667	0.050801	0.198585725
FKBP1A	6.349572069	6.505745348	7.451297596	7.083982415	0.839981297	0.052077404	0.202044664
CD40	5.748668025	5.588207508	5.237702123	5.044394119	-0.527389645	0.052317927	0.20146306
SLAMF6	9.480213343	9.541369257	7.749202462	8.425019333	-1.423680403	0.052373726	0.200184018
MTHFR	8.168206916	7.627735872	6.781145354	6.751083203	-1.131857116	0.052700538	0.199952041
COX7B	10.94178265	11.00474703	11.97715958	11.59187314	0.811251517	0.053308075	0.200780778
SELPLG	8.629679989	7.929244426	5.812396288	6.550550215	-2.097988955	0.054086072	0.202234877
SOS2	7.242656865	7.547565523	8.018503626	8.021440949	0.624861093	0.054694008	0.203036748
BUB1	8.60664902	9.024132374	9.66753173	9.651350856	0.844050596	0.056144868	0.20693394
IL2RB	10.84036786	11.23334552	11.84140738	11.81766543	0.792679709	0.056493247	0.206741243
SDHB	9.210283891	9.344281925	10.20176643	9.853369487	0.750285049	0.056670954	0.205931071
MAP2K7	8.234094852	8.431744766	7.87293783	7.946478892	-0.423211448	0.05683608	0.205086834
ADD1	10.62067591	10.72662154	10.94109033	10.88507835	0.239435618	0.057298622	0.205320064
HSPE1	11.01044955	11.38867604	12.5500058	12.12333353	1.13710687	0.057490822	0.20458803
SGK3	6.089704943	5.79679413	5.297823116	5.044394119	-0.772140919	0.057532557	0.203334244
RORA	10.32256763	10.09494484	9.582470194	9.256819012	-0.789111632	0.057925781	0.203331314
KLRB1	6.268042184	6.754565894	5.075430694	5.472547703	-1.23731484	0.058784006	0.204949641
NRL	5.127179648	5.183817253	5.044394119	5.044394119	-0.111104331	0.059251032	0.205191495
STAT2	9.313452644	8.526806963	7.424580258	7.152288429	-1.63169546	0.059335601	0.204114467
NRP1	5.456487273	5.740210601	5.044394119	5.044394119	-0.553954818	0.059762863	0.204222764
PPIA	13.53591763	13.99882374	14.82006434	14.63866428	0.961993624	0.060754511	0.206245578
PIDD1	7.190505583	6.305807777	5.044394119	5.044394119	-1.703762561	0.06127744	0.206661169
MAP3K14	9.371207983	9.39097516	8.000525885	8.569409242	-1.096124008	0.061287629	0.205353356
CPT1B	8.419206257	7.871141471	7.005041366	6.550550215	-1.367378073	0.061586952	0.205024949
SELL	12.56969788	11.31188741	9.496894463	8.706344888	-2.839172972	0.062137659	0.205532257
ICAM1	8.507113346	8.225637428	9.237702123	8.972688771	0.73882006	0.062140291	0.204231785
CXCL8	9.704414787	10.86866899	13.4530544	12.60640345	2.743187037	0.062465217	0.204000327
SIRPG	9.634567723	9.824274866	8.150718821	8.786438479	-1.260842644	0.062768236	0.203700689
NMT1	9.865531782	9.712903255	10.47346177	10.22049201	0.557759368	0.063534606	0.204899104
NME1	8.760640666	9.518419178	11.22904304	10.63428612	1.79213466	0.065242591	0.209100477
MTHFD1L	9.016703112	9.087876258	10.01850363	9.613992605	0.763958431	0.065266003	0.207884305
CDC42	11.5478417	11.65333937	12.34177106	12.04184075	0.591215373	0.065299408	0.20671469
IDH3A	9.450956167	9.486523368	10.81818122	10.24709076	1.063896219	0.065310906	0.205490411
CCNC	9.257519197	9.248639254	10.19979822	9.794475798	0.744057784	0.066864203	0.209102599
TRIM34	8.136398178	8.062138696	7.931040785	7.841781513	-0.212857288	0.066999147	0.208262408

CKAP5	8.474772626	8.938704755	9.547299416	9.539434183	0.836628109	0.06902954	0.213288878
UBE2I	9.639438955	10.09494484	10.66539388	10.72117811	0.826094096	0.069233444	0.212645579
NDUFAB1	10.22979471	10.50468415	11.57793103	11.10890379	0.976177979	0.069546327	0.21234263
MAGED1	8.636193295	8.718406231	9.258652518	9.014576408	0.4593147	0.070403698	0.213695931
PPAT	8.225481722	8.685069047	9.630019546	9.298860783	1.00916478	0.0705382	0.212852111
IL1A	8.06094595	9.320356086	11.49488933	10.86550109	2.489544193	0.071489011	0.214467034
HLA-E	13.18426884	12.55936782	11.74178152	11.78979281	-1.106031169	0.071743858	0.21398746
ATP5MF	10.24585457	10.71290326	11.53173621	11.28371424	0.928346315	0.072419351	0.214760834
LDHA	10.87726388	11.76302225	12.84329985	12.89601382	1.54951377	0.073105159	0.215555784
CCL5	8.407831467	10.15974949	12.72614055	12.20072018	3.179639887	0.073693786	0.216056782
TRAF6	8.467486272	8.28617897	8.049435486	8.070807027	-0.316711365	0.073969618	0.215640243
APC	7.259629944	6.966719131	6.565756321	6.624550797	-0.518020979	0.074035669	0.214620255
PIK3C3	9.631311074	9.241012654	8.759928868	8.515321727	-0.798536567	0.074059149	0.213488944
PDHA1	8.739622885	8.572087842	9.376600229	9.088347608	0.576618555	0.074375497	0.213209758
DOCK2	11.22332038	11.2681567	11.15020931	11.09432826	-0.123469756	0.074847985	0.213378786
AURKA	6.784291934	7.42727129	8.206675227	8.213515228	1.104313616	0.075311117	0.21351943
IL33	5.514202771	5.903709334	5.044394119	5.044394119	-0.664561933	0.076195271	0.214845681
COX19	7.875200431	7.40013516	6.863022361	6.683444486	-0.864434372	0.076521402	0.214592627
PPP2R5D	8.693526471	8.775834511	8.926287255	9.050815551	0.253870912	0.076627868	0.213729621
CMIP	6.724420478	6.40013516	5.949899812	5.624550797	-0.775052515	0.077718889	0.21560724
FNIP1	9.286792275	9.183817253	8.601976509	8.877531538	-0.495550741	0.077935818	0.215052845
ACVR2A	5.79597374	6.266279413	5.237702123	5.241222157	-0.791664436	0.07804558	0.21421021
OAT	7.875200431	7.884256971	9.439669594	8.72328475	1.201748471	0.078529716	0.214398589
CPT1A	8.942439768	8.932404767	9.018503626	8.982102801	0.062880946	0.079537652	0.216007517
ACAD10	8.181627432	7.66621002	7.092504208	7.039588296	-0.857872474	0.080355484	0.217086019
SHMT2	9.639438955	9.592209438	10.1177415	9.887585203	0.386839154	0.081154607	0.218103007
MTHFD2	10.1838521	10.28370648	10.99258963	10.64987495	0.587452998	0.081221768	0.217152498
CTNND1	6.181627432	5.650943263	5.044394119	5.044394119	-0.871891228	0.081459758	0.21666616
COX6B1	11.25857496	11.36196946	11.88462462	11.63092363	0.447501916	0.082296423	0.217768997
NFKB2	10.33663301	10.39899334	11.02017761	10.71625063	0.500400946	0.084152479	0.221544281
SLC7A5	9.712142149	10.14484129	11.71791223	10.95546767	1.408198237	0.084754956	0.221997753
STAT6	10.25328842	9.749199385	9.224209887	9.137620379	-0.820328768	0.084981508	0.22146696
FLCN	9.557739419	9.194386494	7.907114946	8.531441392	-1.156784788	0.085211274	0.220949837
ATG7	9.631311074	9.135273401	8.628557108	8.445580656	-0.846223356	0.085289997	0.220048192
TRIM26	7.955519595	8.015217649	7.601976509	7.778356133	-0.295202301	0.086726965	0.222642358
TRAF5	9.552583863	9.096354412	8.484013171	8.642472705	-0.761226199	0.087610688	0.223797599
PARP1	9.83895691	10.28122975	10.72955522	10.79581101	0.702589782	0.088106905	0.223956469
IL6ST	11.31599037	10.60216597	9.421205531	9.876269889	-1.310340456	0.090415558	0.228698177
PFKL	10.67466744	11.09212156	10.22904304	10.24513721	-0.646304379	0.090499187	0.227793075
GLUD1	10.72289139	11.32336861	12.09356462	11.89445668	0.970880654	0.091768888	0.229867699
CTNNA1	9.026652772	9.955889198	10.95865583	10.8552918	1.415702828	0.093929866	0.234144014
PPARD	6.051230795	5.954335407	5.683113271	5.390085543	-0.466183693	0.094326504	0.234002288
TNFRSF4	8.021686519	8.276263502	9.000525885	8.636523438	0.669549651	0.094665986	0.233720807
NCR3	8.246918892	7.877714125	6.738395707	7.317573043	-1.034332134	0.094820693	0.232987989
MPC2	9.343614614	9.660503902	9.989174961	9.965587715	0.47532208	0.095925327	0.234585159
CD45RA	6.79597374	6.725711032	5.98689402	5.209513297	-1.162638727	0.096625704	0.235183318
CISH	9.69040037	9.113162699	8.355538613	8.591104314	-0.928460071	0.096658332	0.234158214
IKBKE	10.29092607	9.580170189	8.907114946	8.435336624	-1.264322347	0.097461645	0.235000975
NSD2	10.33663301	10.45390642	10.63730958	10.83595243	0.341361293	0.09771538	0.234516912
CTNNB1	11.61450438	11.43787323	12.40078969	11.98561729	0.667014683	0.097880518	0.233825683
CCL28	8.891625979	8.639386232	8.214494732	8.397140301	-0.459688589	0.098139538	0.233364063
ID2	7.485633619	8.938704755	10.24630954	10.53384388	2.177907526	0.098800688	0.233858508
FCRL3	8.994062271	8.572087842	7.158846702	7.902535544	-1.252383934	0.099454798	0.234331852
VSIR	7.649132351	7.325173102	6.477529138	5.499019915	-1.4988782	0.100684901	0.23615186
ARAF	7.117901834	7.580170189	6.577931035	6.021440949	-1.04935002	0.101121913	0.236103652
SGO2	7.37315889	8.107581667	8.952239951	8.742799763	1.107149579	0.101214436	0.235255175

STAT5B	10.78722127	10.47897844	10.21351961	10.0730113	-0.489834399	0.101661012	0.235233553
PDCD1LG2	5.772514767	5.418282506	5.044394119	5.109977624	-0.518212765	0.102566434	0.236269107
DECR1	10.25222878	10.34665283	10.61901495	10.47421652	0.247174934	0.10361863	0.237632058
MIF	9.875200431	10.50680576	11.18495046	11.0457741	0.924359179	0.103698482	0.236762907
IFITM3	7.172694307	7.688811449	6.206675227	5.044394119	-1.805218205	0.104906099	0.238464965
STK11	8.23838221	8.543437638	7.935778704	7.975048044	-0.43549655	0.105357938	0.238441649
TRAF3	9.996595538	10.12426041	9.89134763	9.835303302	-0.197102507	0.105639966	0.238035906
VAV3	6.21681686	6.325173102	6.022963274	5.783749392	-0.367638648	0.107400631	0.240950981
TIMM17A	9.27431933	9.404693442	10.12190512	9.724687468	0.58378991	0.107859813	0.240933609
NME2	12.70538297	13.04106647	14.08379262	13.5121776	0.924760387	0.108038461	0.240292439
IL15	5.485633619	5.978997461	5.044394119	5.044394119	-0.687921421	0.108128444	0.239460416
SLC2A11	7.609961754	6.941844462	6.268075772	5.550550215	-1.366590115	0.108189566	0.238571864
HK2	7.117901834	7.129777413	8.348449189	7.700653776	0.900711858	0.108674214	0.238620827
PIK3R1	8.579869689	8.563959962	7.858038954	8.237296454	-0.524247121	0.109884029	0.240254911
IL9	5.044394119	5.044394119	5.770576113	6.612477964	1.147132919	0.11240515	0.244730201
LAT	9.986435672	9.711064256	9.305165091	8.775651924	-0.808341456	0.113542756	0.246168327
IKZF4	7.93453457	7.296026756	8.907114946	8.448979232	1.062766426	0.113826602	0.245751158
SKP1	11.47749555	11.79636056	12.42226098	12.09215635	0.620280608	0.113948147	0.244988516
DUSP1	10.9857983	13.01819535	8.596002608	9.459127187	-2.974431926	0.114574203	0.245312401
RNASEL	8.259629944	7.635513223	7.166929049	6.917332546	-0.905440786	0.114579376	0.244309745
ACSF2	6.864145242	6.754565894	6.648897556	6.525015123	-0.222399229	0.114913761	0.244014406
NFATC1	7.596664931	6.954335407	6.126056767	5.044394119	-1.690274726	0.115066008	0.243336313
SOCS4	9.036534284	9.079347986	9.204713711	9.133401969	0.111116705	0.116173861	0.244676376
MTHFS	8.036534284	8.050550722	8.583980079	8.287515809	0.392205442	0.118291804	0.248124272
BCL2L1	9.601665612	9.363140952	10.25865252	9.882567128	0.588206541	0.118393702	0.247332592
ALDOA	11.65194737	12.11872222	12.59206875	12.45490754	0.638153351	0.119755558	0.249168823
RAE1	8.827619366	9.293571105	9.628557108	9.875007136	0.691186887	0.119820353	0.248302418
PPARA	7.748668025	8.167816774	7.38355299	7.431905719	-0.550513045	0.120811012	0.249353929
AHR	10.09916527	10.61205425	11.1674327	10.97268877	0.714450972	0.121190816	0.24914128
PTGER2	9.910555707	7.363140952	5.541094267	5.044394119	-3.344104137	0.123337071	0.252547336
IFI35	7.991524549	7.948103453	7.791637728	7.569409242	-0.289290515	0.125065486	0.255074272
NCAPH	8.674667443	9.709222909	10.40421246	10.77970634	1.400014223	0.125961941	0.255891188
MFN2	8.57309646	8.61205425	9.162893535	8.841781513	0.409762169	0.126821305	0.256626641
PSPH	6.841777429	6.572087842	6.040665276	5.241222157	-1.065988919	0.127367423	0.256724963
PDK3	8.23838221	8.639386232	8.923904604	9.239260641	0.642698401	0.127968625	0.256933114
KLRD1	6.127179648	5.711064256	5.411033726	5.044394119	-0.691408029	0.130172492	0.260344984
BATF	10.00164877	10.38752511	10.63585452	10.77158608	0.509133362	0.13051644	0.260025031
SMURF1	7.163705524	7.194386494	6.87293783	7.048577079	-0.218288555	0.134055936	0.266049473
ATG14	8.772514767	8.003245007	7.319737892	7.525015123	-0.965503379	0.136135187	0.26914083
SLC27A3	6.031601988	6.344281925	5.326969461	5.76205432	-0.643430066	0.138282569	0.27234277
SLC25A20	9.701312215	9.545503057	9.422893881	9.227435205	-0.298243093	0.139724397	0.27413608
SLC25A6	11.8061183	12.01856713	12.50029681	12.20072018	0.438165782	0.139742023	0.273132136
IL1RN	5.674667443	5.711064256	7.858038954	6.575641196	1.523974226	0.140714497	0.273995021
PLCG1	11.26489334	10.3227666	9.687333738	9.670401448	-1.114962379	0.141596218	0.274675371
IL13	5.044394119	5.38175663	9.722032261	7.057510204	3.176695857	0.141688757	0.273825462
CCL3	7.080182168	11.23013882	13.95967391	14.16500177	4.907177343	0.142025018	0.273451153
SHMT1	6.609961754	7.085039098	7.40421246	7.411147159	0.560179383	0.142411566	0.273176089
CD84	9.458326273	10.08645838	8.01403015	8.924674521	-1.303039989	0.142630111	0.27258199
CD38	8.186073337	6.38175663	5.268075772	5.044394119	-2.127680038	0.144109	0.274392043
CXCL14	5.163705524	5.344281925	5.044394119	5.044394119	-0.209599605	0.145990479	0.276952527
SMAD2	9.601665612	9.906926046	10.10937803	10.10675372	0.353770045	0.146360731	0.276637865
NEK2	7.404019853	8.484371697	9.111473444	9.315712701	1.269397298	0.14723049	0.277266178
MKI67	7.623137143	8.615990664	9.144592719	9.497379556	1.201422234	0.15015248	0.281740653
BATF3	5.864145242	8.951222795	10.65752786	11.39096928	3.61656455	0.150243179	0.280889422
MAP2K2	9.236240124	9.720235902	8.970825651	8.859767258	-0.562941558	0.15152276	0.282259004
IFI30	7.292988541	7.681316912	7.959237677	7.897569291	0.441250757	0.153945252	0.285740109

UQCR10	7.853004685	8.085039098	8.493684906	8.229412855	0.392526989	0.155254626	0.287137587
NAA20	8.619854559	8.834446671	9.547299416	9.068599383	0.580798784	0.157225542	0.289744213
GZMB	5.699758424	9.021166915	11.02907287	11.03846075	3.673304139	0.157487628	0.289194363
IL23A	7.603328662	7.183817253	8.194865925	7.826184658	0.616952334	0.157769197	0.288684063
NOTCH1	7.718294376	8.167816774	8.674635117	8.386545185	0.587534577	0.158713915	0.289386502
ITGAM	10.4407604	8.725711032	7.902281792	7.075212206	-2.094488717	0.158806103	0.288535032
CD3G	10.55430443	10.28741363	10.06897567	9.615505657	-0.578618363	0.1588855	0.287666378
PTCD1	6.79597374	6.588207508	6.477529138	6.287515809	-0.30956815	0.158919991	0.286722782
MR1	8.080182168	7.256225748	6.553477991	6.857211553	-0.962859186	0.159604245	0.286953974
TRIM22	11.19271661	9.880989257	9.256760459	8.332370045	-1.742287682	0.16204491	0.290330465
IFI6	7.10856397	6.635513223	6.355538613	6.361516391	-0.513511094	0.162109956	0.289441998
TRAT1	10.41731668	9.413767025	8.643115203	8.95606494	-1.115951779	0.167726796	0.298438022
SCD	9.785757343	10.57310062	10.91313371	11.35247125	0.9533735	0.168740314	0.299209629
TKT	10.07539711	9.980524931	10.94403281	10.35790514	0.623007953	0.170730993	0.301702714
SRC	5.044394119	5.266279413	6.694340527	5.717660201	1.050663598	0.170791841	0.300780171
GLS	11.05912933	11.02116692	11.44091994	11.18322661	0.27192515	0.172047344	0.301960645
COX4I1	11.82263104	11.90652435	12.31110306	12.02997595	0.305961809	0.172313746	0.301403028
NFATC2IP	8.693526471	8.467041818	8.366107855	8.160603697	-0.316928368	0.173968592	0.303269573
DDIT4	6.724420478	7.453906416	7.940501114	7.772942637	0.767558428	0.17674019	0.307063764
BTBD6	7.419206257	7.747406103	7.995996227	7.882567128	0.355975497	0.176831744	0.306191879
TYK2	9.652349064	8.975937661	8.711019268	8.390085543	-0.763590957	0.178191351	0.307514171
PTGER4	8.353530083	8.178503453	9.178968298	8.594177148	0.620555955	0.179059098	0.307981649
IRF5	7.680981217	7.015217649	8.735681322	7.989123229	1.014302843	0.179744892	0.3081341
SLC3A2	9.806118297	9.864538736	10.32967198	10.00537258	0.332193764	0.181312368	0.309791993
ADAR	11.33813192	11.1624436	11.51362848	11.402847	0.207949978	0.183175084	0.311941726
IL23R	5.456487273	6.471393843	6.853038273	7.630549537	1.277853347	0.183640886	0.311706241
COX5B	10.84036786	11.20879392	11.54420018	11.34336904	0.419203722	0.183765919	0.310895783
CCL4	5.044394119	10.26126134	12.50249406	13.26575962	5.231299111	0.185642096	0.313043534
IL16	11.92425916	10.6605039	10.20765499	9.570969756	-1.403069158	0.185832819	0.312344413
KLRC1	5.365339385	6.027091749	5.044394119	5.044394119	-0.651821448	0.187649823	0.314374378
CCL15	5.089704943	5.183817253	5.044394119	5.044394119	-0.092366978	0.188645754	0.315020093
COX16	8.276405657	8.775834511	9.011788199	9.014576408	0.487062219	0.190417144	0.316952407
HACD4	9.521257529	9.918128394	8.210590277	9.183226606	-1.022784519	0.190874565	0.316692205
NDUFA1	11.63416104	11.82257257	12.17471588	11.91118556	0.314583912	0.191609727	0.31689301
JAK2	10.47022297	9.745610589	9.444664504	9.366916379	-0.702126338	0.193828655	0.319538613
MYC	10.2826466	9.95277994	11.00504137	10.45912719	0.614371008	0.193894924	0.318629874
CCR2	6.981328782	5.650943263	5.044394119	5.044394119	-1.271741903	0.196047969	0.321145245
CCR4	12.66832592	12.46622435	13.18818046	12.79364066	0.423635431	0.196125151	0.320254993
SEC22B	8.999124364	8.982050785	8.860532809	8.572528584	-0.274056878	0.197848059	0.322049206
JUN	11.07059612	12.86226205	10.22904304	10.3305287	-1.686643215	0.200898613	0.325986429
LRRC32	8.467486272	7.204878868	6.832860391	5.846943218	-1.496280766	0.202701752	0.327881203
IFNA1	5.333630525	6.003245007	5.044394119	5.044394119	-0.624043647	0.203355767	0.327911174
FOSB	8.784291934	10.50043155	8.036260097	8.092699632	-1.577881876	0.207471838	0.333506132
PSAT1	7.830462116	7.941844462	7.577931035	6.846943218	-0.673716163	0.209995247	0.336514122
OASL	5.301209048	5.929244426	5.044394119	5.044394119	-0.570832617	0.210719586	0.336629431
CXCL2	7.616564489	8.189111552	8.451297596	9.462494039	1.054057797	0.211323073	0.336551561
CCL18	5.089704943	5.344281925	5.637309582	6.60030325	0.901812982	0.211886724	0.336410921
SMAD3	8.921262213	8.779348995	5.075430694	7.767508751	-2.428835882	0.213344857	0.337686952
FOS	10.54740982	12.9751717	8.89985913	9.897569291	-2.362576546	0.213631108	0.337105968
PTGS2	5.044394119	7.580170189	8.202749524	9.940455104	2.75932016	0.214462868	0.337386707
TNFSF13B	9.134099062	7.572087842	7.150718821	6.660174706	-1.447646688	0.219019894	0.343508406
UBA5	8.994062271	9.053456453	9.677466708	9.207508162	0.418728073	0.219105533	0.34260138
TNFRSF9	9.621496784	10.38406679	10.55347799	11.12013937	0.834026894	0.221218908	0.344860895
TFB2M	8.080182168	8.509982341	8.921518011	8.597243451	0.464298476	0.226721221	0.352373945
NPRL3	8.489235856	8.367817439	8.949899812	8.578747107	0.335796812	0.227610052	0.352693053
CBR4	9.07059612	8.926077147	9.174966368	9.099203152	0.138748127	0.23111986	0.357059425

TGFB2	8.321557693	8.413767025	7.749202462	8.201475978	-0.392323139	0.231247719	0.356190516
SH3BP2	8.671500164	8.173170009	8.079718053	7.666027433	-0.549462344	0.231836905	0.356035248
GRK2	10.91859303	11.36079701	11.47996407	11.55804475	0.37930939	0.233203579	0.357071356
CD200	5.772514767	7.471393843	7.858038954	8.368711892	1.491421118	0.234698105	0.358296515
GATA3	11.06758737	10.87443154	12.26878004	11.30964997	0.81820555	0.236381721	0.359802266
RPL23	14.24897879	14.47647722	14.96478979	14.55015469	0.394744231	0.237003572	0.359687773
TCF7	7.730520678	5.711064256	5.044394119	5.044394119	-1.676398347	0.238740696	0.361261581
IL18	5.234094852	5.824274866	5.044394119	5.044394119	-0.48479074	0.242124224	0.365310232
GRPEL1	6.251168365	6.837821398	7.319737892	6.917332546	0.574040337	0.247911389	0.372951244
PYCR2	10.43236448	10.10478303	10.72408787	10.47505021	0.330995284	0.248944603	0.373416904
PTGDR2	6.661956392	5.418282506	5.044394119	5.044394119	-0.99572533	0.250471836	0.374618746
LEF1	9.058523287	7.129777413	6.892566637	5.361516391	-1.967108836	0.251221542	0.374654091
NR3C1	8.42673993	8.55578603	8.57185652	8.692074791	0.140702676	0.251644048	0.374202677
FASLG	5.044394119	5.044394119	6.058152703	5.272249053	0.620806758	0.254913247	0.377974815
SERINC3	10.62559419	10.52261917	10.51045598	10.44643105	-0.095663164	0.255330161	0.377508203
TNFRSF10B	8.996595538	7.99722122	7.722032261	7.717660201	-0.777062148	0.260178876	0.383578
ITGB8	7.680981217	7.038868917	9.681703701	7.931979322	1.446916444	0.260707428	0.383262202
MT2A	6.301209048	7.732979032	8.040665276	8.217506088	1.111991642	0.263103934	0.385686448
ACADVL	12.13812011	12.10373214	12.23289794	12.65245679	0.321751237	0.265954973	0.388761377
TIGIT	11.03407024	10.62383142	11.35332691	11.06804694	0.381736095	0.266112913	0.387893398
UBE2V1	11.33413137	11.49028109	11.83349524	11.52017657	0.264629672	0.269704387	0.392021025
CDC26	9.510662413	9.786352383	10.29136809	9.822258955	0.408306126	0.272212886	0.394555756
MYL9	5.044394119	5.044394119	5.237702123	6.057510204	0.603212044	0.278976023	0.403225848
DHFR2	7.549136561	7.085039098	6.892566637	7.030543156	-0.355532933	0.27967707	0.403109966
MX1	7.65555862	6.768779754	6.727507391	5.445580656	-1.125625164	0.285499293	0.410355529
PRKCB	9.83754458	9.608107065	9.875406086	9.901295583	0.165525012	0.288052607	0.412875403
TBX21	6.623137143	8.325173102	8.559630218	8.867407321	1.239363647	0.288221309	0.411972841
RARG	7.276405657	7.015217649	6.96851549	6.287515809	-0.517796003	0.291489388	0.415493161
IFNG	5.044394119	7.215295484	8.245355696	7.332370045	1.659018069	0.294227733	0.418241075
WDR45	8.816192019	8.367817439	8.359070304	8.083982415	-0.370478369	0.294308708	0.41720685
CCR6	5.596664931	5.768779754	6.590003867	5.846943218	0.5357512	0.295253713	0.417399769
BCL6	7.724420478	7.941844462	7.411033726	5.332370045	-1.461430585	0.296855641	0.418517789
CALM1	8.552583863	9.170495874	9.290443585	9.291307389	0.429335618	0.299119383	0.420560222
DVL2	8.225481722	8.409237367	8.049435486	8.229412855	-0.177935374	0.300679962	0.421605598
CXCL10	5.044394119	5.619916368	6.022963274	9.520176566	2.439414677	0.302500553	0.423008903
GNG10	7.918593026	8.194386494	7.926287255	7.569409242	-0.308641512	0.304571354	0.424753564
TOX	7.099165272	9.248639254	9.350224813	9.959643351	1.481031819	0.316069813	0.439601141
NFIL3	7.021686519	8.497233848	8.400789694	9.882567128	1.382218228	0.317119475	0.439875401
IFIT2	5.699758424	5.711064256	5.613850609	5.044394119	-0.376288976	0.317300965	0.438947179
NFKBIA	11.17605071	12.29664002	12.64365828	12.35677476	0.763871159	0.317457907	0.437990054
IL37	5.163705524	5.55578603	5.044394119	5.143924956	-0.26558624	0.319574876	0.439735029
STAT5A	10.00794051	9.89239402	10.46201175	10.02713655	0.294406885	0.320836988	0.440297569
CHMP4A	10.87863788	11.00098903	11.14459272	10.9914558	0.128210805	0.320945267	0.439277871
CD45RC	5.841777429	5.488671834	5.516003286	5.044394119	-0.385025929	0.321264178	0.4385511
GARS	10.31649738	10.55783386	10.92330833	10.54023103	0.294604061	0.32286076	0.439567683
TSC2	8.991524549	8.584194445	8.556557384	8.482531792	-0.268314909	0.324321033	0.440393824
ACTN1	9.329617463	7.978997461	10.22711172	9.227435205	1.072966002	0.329791425	0.446646655
TNFRSF11A	9.154660384	9.722063255	9.853038273	9.749705928	0.363010281	0.33511507	0.452668524
NDUFA2	7.960718502	8.146202961	7.945208117	7.927113567	-0.11729989	0.335122802	0.451497039
ISG15	8.489235856	9.5078654	8.411033726	8.298860783	-0.643603373	0.335933484	0.45141062
NRF1	5.886171548	6.363140952	5.949899812	5.390085543	-0.454663573	0.341802959	0.458104746
STAT3	10.23087095	10.56599623	10.57185652	10.64839754	0.21169344	0.343243901	0.458844178
PRDM1	10.77988676	10.95277994	10.66539388	10.79980924	-0.133731789	0.34639633	0.461861773
CD96	10.54913656	9.716574237	9.632939982	9.621542047	-0.505614385	0.34849721	0.463465362
SLAMF7	5.971060446	5.044394119	7.451297596	5.826184658	1.131013844	0.350146953	0.464462282
CREB1	9.833299275	9.370150011	9.305165091	9.341541691	-0.278371252	0.353508646	0.467719131

TOLLIP	8.760640666	8.699980757	8.651780065	8.709182047	-0.049829656	0.355103853	0.468628102
CD7	9.911898374	10.15974949	9.955743056	9.209513297	-0.453195756	0.368199304	0.484670512
IL7	5.127179648	6.246101531	5.044394119	5.044394119	-0.64224647	0.369762861	0.485490169
CD226	9.738109833	10.90451418	10.94520812	11.03507281	0.668828457	0.371269327	0.486230895
PPP3CA	7.616564489	7.782854939	7.749202462	7.927113567	0.138448301	0.37340475	0.487789496
JUNB	9.528277956	10.83275634	9.395640272	9.489149671	-0.738122178	0.376179202	0.4901729
ICOS	10.8176254	10.33714574	11.77454866	10.69494012	0.657358821	0.38169864	0.496112086
FCGR3A	5.089704943	5.978997461	5.044394119	5.044394119	-0.489957082	0.385378714	0.499636724
DHRS4	8.434234466	8.480058704	8.431306121	7.897569291	-0.292708879	0.388550097	0.50248584
CX3CR1	6.21681686	5.711064256	5.853038273	5.044394119	-0.515224362	0.392929432	0.506878968
HADHB	9.880696418	9.971335759	10.50249406	9.950081128	0.300271506	0.395638348	0.509100717
RELA	8.524772013	8.982050785	8.59899265	8.365118628	-0.27135576	0.401455053	0.515300516
MAML2	7.858585717	6.877714125	7.174966368	5.717660201	-0.921836637	0.40405097	0.517345658
PTGS1	5.044394119	5.344281925	6.553477991	5.241222157	0.703012052	0.405888804	0.518412433
PRKAB2	8.131796276	7.747406103	7.78640108	7.677662133	-0.207569583	0.407849983	0.519631089
AKT1	8.463829249	9.059250417	8.424580258	8.479211434	-0.309643987	0.409139693	0.519990349
TNFSF14	7.760640666	6.325173102	9.490468193	7.287515809	1.346085117	0.413565353	0.524323642
TPR	9.417316676	9.5205207	9.381817938	9.437049022	-0.059485208	0.416398172	0.526621217
CXCR6	8.748668025	9.788097931	9.111473444	7.465853051	-0.97971973	0.420080213	0.529978949
GFM1	8.968481902	8.793321938	9.281165772	8.900054554	0.209708243	0.422667873	0.531942982
CCR8	9.96977175	7.67378324	10.98002948	9.418099919	1.377287204	0.425757034	0.534527079
TRIM25	9.367298238	9.256225748	9.306994761	8.862318444	-0.227105391	0.426131666	0.533698882
NT5E	8.353530083	8.518419178	8.43465733	9.395379843	0.479043956	0.429293361	0.536356839
EGR1	7.507113346	8.890770278	7.040665276	7.810417342	-0.773400503	0.431639688	0.537985698
TRIM33	10.1893988	9.658596836	9.734322212	9.572528584	-0.270572418	0.432318424	0.537533269
BID	7.542217147	6.55578603	6.759928868	6.287515809	-0.52527925	0.438140867	0.543463191
MMP9	5.044394119	5.225637428	6.853038273	5.075212206	0.829109465	0.451411466	0.558581094
RDH10	11.33713282	11.08077287	10.44549531	11.21800417	-0.377203106	0.451845834	0.557780982
SMAD5	6.807561714	7.547565523	7.424580258	7.630549537	0.350001279	0.458331739	0.564437177
PYCR1	6.31751086	6.488671834	7.158846702	6.375871684	0.364267846	0.459298034	0.564280442
ERAP2	10.614092	11.77891015	8.202749524	11.23876984	-1.475741393	0.459870879	0.563642218
NKG7	6.07059612	9.135273401	8.362593371	9.982102801	1.569413326	0.460761885	0.563396049
XCL1	5.044394119	5.453906416	8.643115203	5.075212206	1.610013437	0.464545907	0.566680113
TNFRSF18	9.762130285	10.14484129	10.40250209	9.997270782	0.246400652	0.469895664	0.571854157
TGIF2	9.38093624	9.574112678	9.586995117	9.542618942	0.08728257	0.471368364	0.572296649
GZMM	6.411633037	7.98509766	6.109378026	6.826184658	-0.730584007	0.487047868	0.589945304
MAF	11.47477263	12.3675256	10.64600928	11.90655807	-0.644865439	0.491592758	0.594055886
ATP5MG	9.483829122	9.685069047	9.559630218	9.390085543	-0.109591204	0.49250105	0.593762948
NDUFB9	9.843185624	9.803713544	10.35111181	9.775651924	0.239932282	0.492964009	0.592935731
MAPK3	9.096805999	9.305807777	9.303333097	9.274166256	0.087442788	0.494410677	0.593292812
NFAT5	9.041449774	8.409237367	8.613850609	8.279902625	-0.278466953	0.517548929	0.619617743
PYCR3	5.396366281	5.38175663	6.058152703	5.302622702	0.291326247	0.521315134	0.622681965
CIITA	8.93453457	8.230780732	8.202749524	8.400654785	-0.280955496	0.522467566	0.622617237
CCL20	5.268042184	6.073634335	5.565756321	5.044394119	-0.365763039	0.525495481	0.624782645
PHGDH	6.674667443	8.422783899	6.38355299	7.241222157	-0.736338098	0.528409453	0.626802938
IFNGR1	8.798879471	9.132528024	8.537981655	8.979755046	-0.206835397	0.532834377	0.630602152
OMA1	8.031601988	7.978997461	7.754575634	8.039588296	-0.108217759	0.533052897	0.62941715
CD6	9.051230795	10.81488729	8.210590277	9.877531538	-0.888998134	0.539996656	0.636160443
NOTCH2	9.384809249	9.633572812	9.522317059	9.733075253	0.118505126	0.54283828	0.638051372
MTOR	8.739622885	8.310673532	8.506480511	8.135512716	-0.204151595	0.546313209	0.6406764
IFNAR1	10.13179628	9.727531467	10.18395515	9.993784606	0.159206007	0.549956541	0.643486565
ZBTB16	5.569697884	6.572087842	5.044394119	6.075212206	-0.511089701	0.550862547	0.643088403
IFNGR2	8.407831467	6.837821398	7.206675227	6.90748476	-0.565746439	0.552359236	0.643380058
CD9	7.661956392	7.732979032	9.687333738	7.347016821	0.819707568	0.556297574	0.646507992
ATP5PD	9.521257529	9.610082007	9.732961821	9.542618942	0.072120613	0.563197944	0.653056492
GNAI2	12.56415806	12.68389755	12.68011629	12.65153524	0.041797954	0.567140081	0.656153098

SMARCA4	9.857192482	9.801986799	9.966201624	9.80644844	0.056735392	0.571160917	0.659326696
MAP3K7	9.793062144	9.545503057	9.666106846	9.457440811	-0.107508772	0.574940091	0.662207783
FUT4	7.31751086	7.67378324	7.206675227	7.492447261	-0.146085806	0.587858861	0.675579448
PTPN6	10.09089088	9.978997461	10.76193122	9.86867674	0.280359809	0.596933434	0.684483671
IL10	5.044394119	9.732979032	7.802054344	10.25293558	1.638808385	0.598742254	0.685035483
CD45R0	11.26594372	12.08397372	11.57944568	12.50392983	0.366729031	0.612660835	0.699409272
PPT2	5.92924027	5.183817253	6.109378026	5.550550215	0.273435359	0.616639641	0.702397471
STAT4	9.199329434	8.178503453	9.671797958	8.575641196	0.434803134	0.620237753	0.704939825
FUT7	8.471134049	10.47356494	10.3305717	9.764784113	0.57532841	0.635833471	0.721077079
MTCP1	6.528277956	5.929244426	6.158846702	5.965587715	-0.166543983	0.649541818	0.735007847
SOCS2	12.11731999	10.70737921	11.93636985	11.64432683	0.377998744	0.651949335	0.736117848
PIK3R2	6.699758424	6.941844462	6.87293783	6.563150252	-0.102757402	0.653301532	0.736034041
TNF	10.90652019	10.43174477	11.06140813	10.60868439	0.165913779	0.663227771	0.74558939
LAMP1	11.03776473	10.91173771	10.9227118	11.16112181	0.06716559	0.667774965	0.749069309
PIK3R3	6.349572069	6.588207508	6.38355299	6.783749392	0.114761402	0.671064341	0.751126248
SH2D1A	9.411633037	9.871141471	9.625627777	9.92345345	0.133153359	0.674803907	0.753677091
TGFBR1	11.11265672	10.50892426	10.82840861	11.1035226	0.155175113	0.685966298	0.764489438
CLCF1	5.044394119	5.954335407	5.438000774	6.075212206	0.257241727	0.688777522	0.765968106
RPTOR	7.42673993	8.522619166	8.226145092	8.209513297	0.243149646	0.700643532	0.777488306
ACVR1C	6.609961754	7.246101531	6.738395707	7.575641196	0.228986809	0.705667102	0.781382456
CD4	11.43002358	11.67849639	11.47955853	11.52017657	-0.054392439	0.707807377	0.782074104
CTLA4	13.91214998	13.41517963	14.153073	13.51369981	0.169721595	0.715822907	0.789240641
SLC2A1	6.089704943	6.344281925	6.268075772	6.272249053	0.053168979	0.716770753	0.788600658
CD8B	6.528277956	5.851241914	6.637309582	5.044394119	-0.348908084	0.72583939	0.796878989
LAMTOR1	8.036534284	7.916533374	8.027409179	7.841781513	-0.041938483	0.74084265	0.811623795
CD86	7.099165272	8.157050343	7.117741499	8.802468589	0.331997236	0.770294191	0.842101277
CRLF2	6.251168365	5.183817253	6.397358789	5.499019915	0.230696543	0.772283714	0.842491324
TICAM1	8.489235856	8.897254311	8.674635117	8.581846346	-0.065004352	0.785418573	0.855012624
FYN	10.61656449	10.0650212	10.69014054	9.629052189	-0.181196483	0.790476884	0.85870752
IL21R	9.127179648	9.649023509	9.353769521	9.595711114	0.086638739	0.79166074	0.858186853
DIABLO	8.528277956	8.559878785	8.702704	8.459127187	0.036837223	0.792515303	0.857312152
FOXP3	10.77473032	10.43509079	10.88462462	10.47588342	0.075343458	0.803414641	0.867284424
AFDN	9.333630525	8.99722122	9.369613799	9.083982415	0.061372234	0.807025402	0.869363481
CXCR3	7.754666765	8.831064032	8.741104994	8.160603697	0.157988947	0.820277504	0.881798316
LAG3	10.25434728	12.38752511	11.21059028	12.01314217	0.290930033	0.822349454	0.882187772
TNFSF9	5.569697884	6.418282506	5.749202462	6.525015123	0.143118597	0.826630944	0.884941011
AKT2	9.817625397	10.01819535	9.897432392	9.891337337	-0.023525508	0.836431793	0.893579307
COX7C	9.830462116	9.798527097	10.0581527	9.663104037	0.046133764	0.837571237	0.892947848
IL4R	9.115573028	8.310673532	8.431306121	8.810417342	-0.092261549	0.854900671	0.909543806
MDH2	8.177167784	8.543437638	8.496894463	8.114264982	-0.054722988	0.855427394	0.908231554
ACVR1B	5.199329434	5.681316912	5.96851549	5.109977624	0.098923384	0.859323287	0.910494489
CXCR4	12.72442048	12.33684764	12.13122958	12.77970634	-0.075166099	0.860664247	0.910046621
HDAC7	9.288860655	9.118722225	9.359070304	8.963212907	-0.042649834	0.861365732	0.908925803
ATP6V1F	9.92392647	10.28864723	10.26525525	10.03054316	0.041612356	0.865547517	0.911474528
HLA-DRB1	11.92724989	11.50839493	11.93252306	11.38255187	-0.060284944	0.877602076	0.922286499
RPL3	10.83400769	10.70922291	11.1172202	10.27990263	-0.073053889	0.878859908	0.921731123
SERPINB9	8.562876618	8.643248871	8.911931962	8.17709182	-0.058550854	0.888681977	0.930141785
IL32	15.03614955	15.51374546	15.28983655	15.32905969	0.034500613	0.8987064	0.938729762
CD3D	12.50999763	12.7384061	12.73958165	12.45807343	-0.025374327	0.901493282	0.939738452
ACOT2	7.37315889	7.596200299	7.559630218	7.368711892	-0.020508539	0.901690819	0.93804932
CD80	11.15749309	10.25370135	11.04779513	10.50963702	0.073118858	0.902166103	0.936655351
CD99	6.542217147	7.40013516	7.109378026	6.706344888	-0.063314697	0.905953801	0.93869912
SRR	6.089704943	6.118722225	6.126056767	6.075212206	-0.003579097	0.913860317	0.944993834
ACSL5	9.845997895	9.658596836	10.14049415	9.256819012	-0.053640784	0.916316702	0.945638837
ALDH3A2	9.918593026	9.256225748	9.97658492	9.295089029	0.048427587	0.928121504	0.955909573
RAI1	6.674667443	7.162443602	7.005041366	6.877531538	0.022730929	0.936367824	0.962481668

ACACA	6.38093624	6.768779754	6.541094267	6.575641196	-0.016490265	0.940214966	0.964514756
PRF1	10.52213695	9.709222909	10.39821728	9.745566198	-0.043788192	0.940702583	0.963100263
IL12A	5.674667443	6.650943263	5.516003286	6.946478892	0.068435735	0.944203691	0.964770504
IRF4	11.8428337	11.33416189	11.86674865	11.25827261	-0.025987163	0.953710107	0.972558133
PCK2	8.545681003	8.305807777	8.697133742	8.118539637	-0.0179077	0.959599639	0.976633952
CD68	7.880696418	6.471393843	7.677466708	6.76205432	0.043715384	0.963236696	0.978405778
CTSW	7.208099643	8.55578603	7.40421246	8.435336624	0.037831705	0.968486368	0.981805434
UBE2F	9.305301802	8.518419178	9.303333097	8.566283142	0.022947629	0.969913384	0.98132413
GFER	6.31751086	6.725711032	6.601976509	6.459127187	0.008940902	0.970775215	0.980273994
IKZF2	11.53569992	8.747406103	11.14100711	9.264554661	0.061227875	0.974244833	0.981856121
STAT1	14.18558773	13.49776729	13.95128973	13.71263231	-0.009716494	0.981129342	0.98686694
STAM	10.00038712	8.874431541	9.842984608	9.055282103	0.011724026	0.987934918	0.991779022
DAP3	10.6499372	10.56802963	10.72545665	10.49573733	0.001613577	0.990643771	0.992567351
IL1R1	9.172694307	7.363140952	8.348449189	8.209513297	0.011063613	0.991379189	0.991379189