Supplementary Information

A human memory T cell subset with stem cell-like properties

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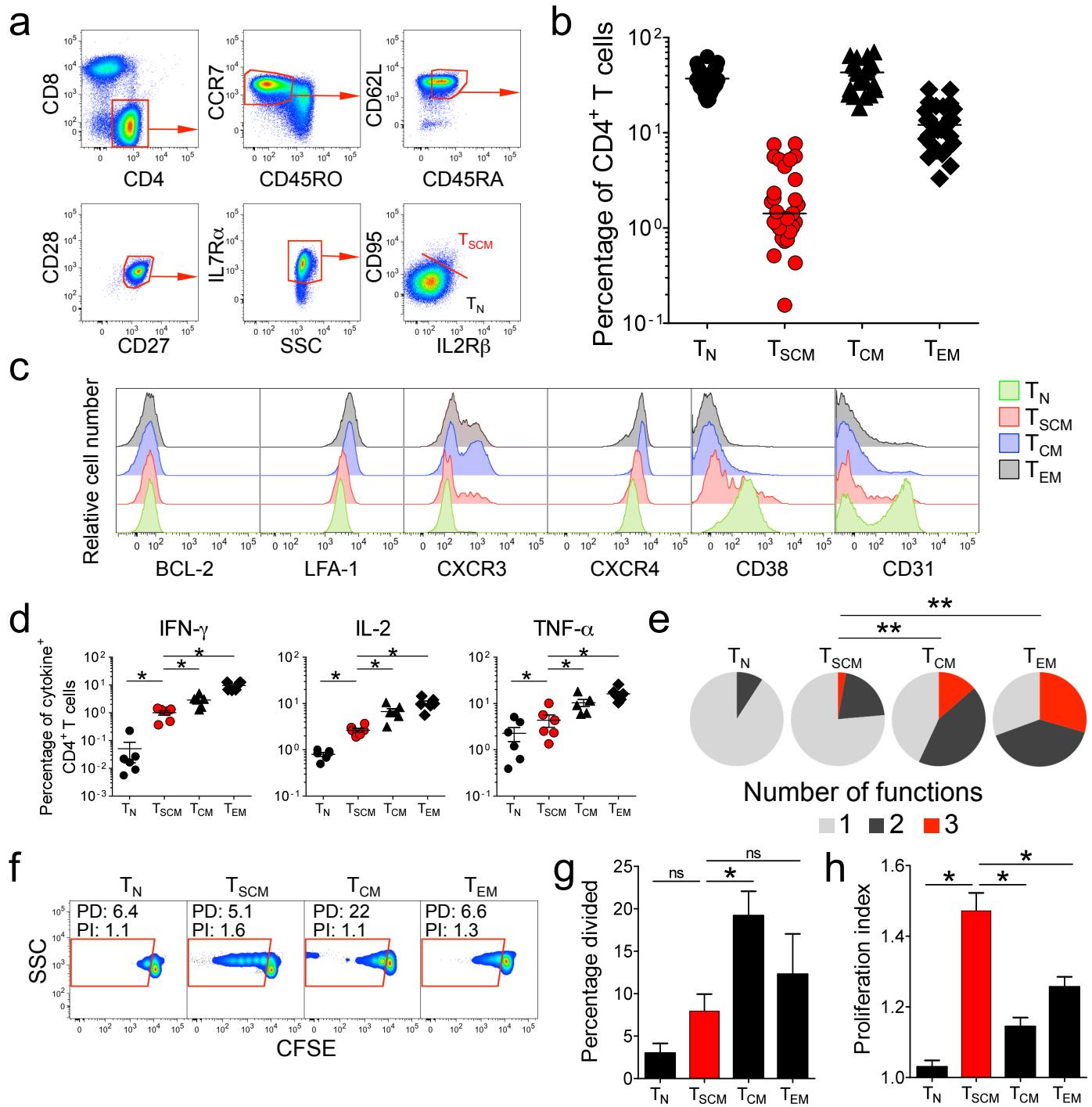
**Supplementary Fig. 1**. **T$_{SCM}$ cells are found within the CD4$^+$ T-cell compartment. a**, Flow cytometry analysis of PBMC of a healthy donor. Dot plots identify CD95$^+$, IL2Rβ$^+$ T$_{SCM}$ following depicted sequential gating. **b**, Percent of circulating CD4$^+$ T cell subsets in 29 healthy donors. **c**, Flow cytometry analysis of PBMC from a healthy donor. Overlaid histogram plots show expression levels of a given molecule in different CD4$^+$ T cell subsets. **d**, Percentage of CD4$^+$ T cell subsets, producing IFN-γ, IL-2 and TNF-α after stimulation with SEB. Graph depicts the results from 6 healthy donors. **e**, Pie charts depicting the quality of the cytokine response in CD4$^+$ T cell subsets as determined by the Boolean combination of gates identifying IFN-γ$^+$, IL-2$^+$ and TNF-α$^+$ cells. **f**, CFSE dilution in sorted CD4$^+$ T cell subsets after stimulation with 25 ng ml^{-1} of IL-7 for 14 days. Data are shown after gating on CD4$^+$ cells. PD: percent divided; PI: proliferation index. **g**, Percent divided cells and **h**, Proliferation index of different CD4$^+$ T cell subsets after stimulation as in **e**. Data are represented as means ± s.e.m of 4 different donors. *=p<0.05; **=p<0.01; ***=p<0.001; ns= not significant.
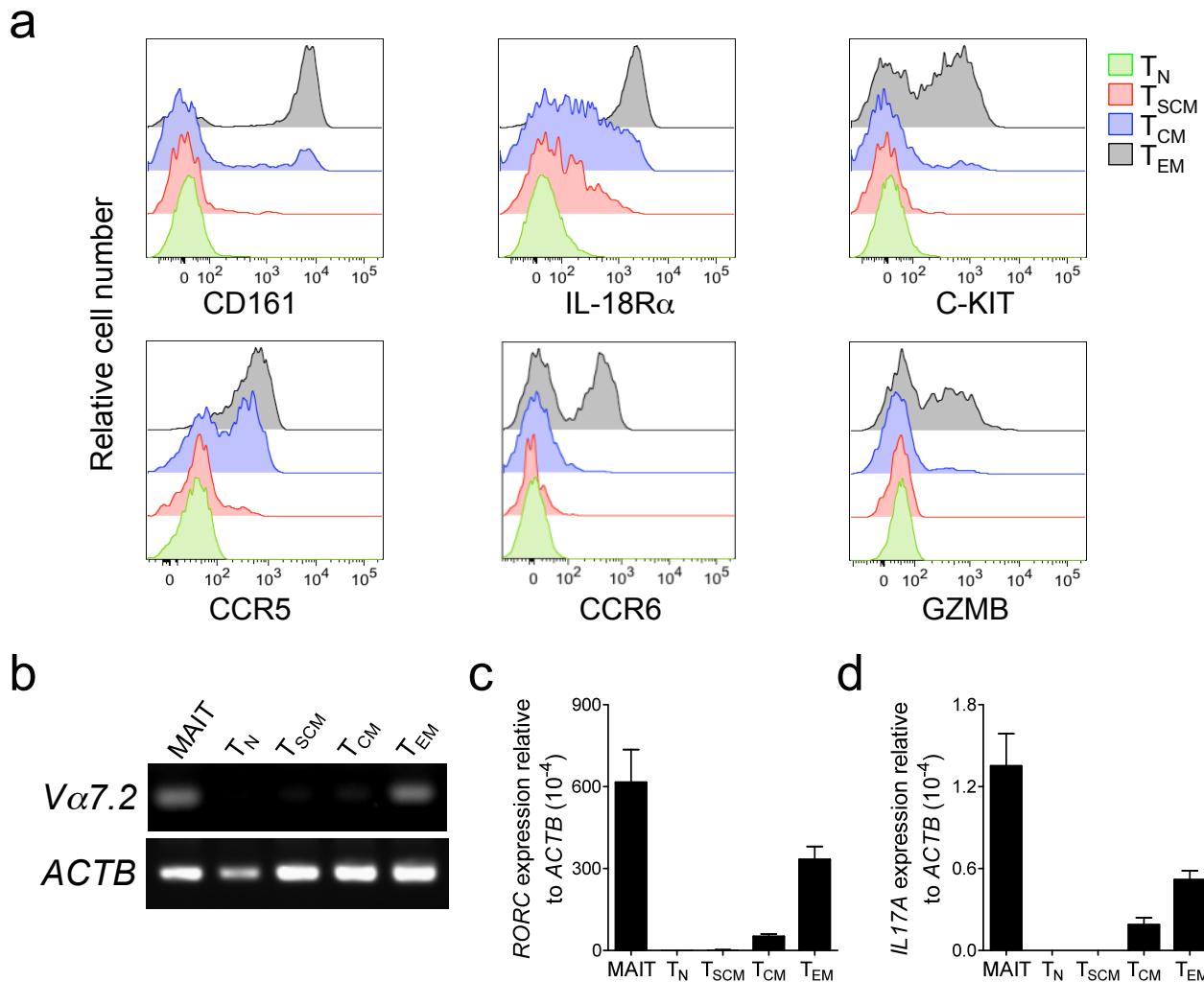
Supplementary Fig. 2. **T$_{SCM}$ cells do not comprise MAIT cells. a,** Flow cytometry analysis of PBMC from a healthy donor. Overlaid histogram plots show expression levels of CD161, IL-18Rα, c-Kit, CCR5, CCR6 and GZMB in different CD8$^+$ T cell subsets. **b**, RT PCR product s of *Va7.2* from sorted CD8$^+$ T cell subsets and MAIT. MAIT were sorted for CD3$^+$,CD8$^+$,CD45RO$^+$, CD62L$^-$, CD161$^+$, IL18Rα $^+$. *ACTB* was used as control. **c**,**d** Quantitative RT-PCR analysis of the expression of *RORC* (**c**) and *IL17A* (**d**) in CD8$^+$ T cell subsets and MAIT obtained as in panel **b**. Data are represented as means s.e.m.
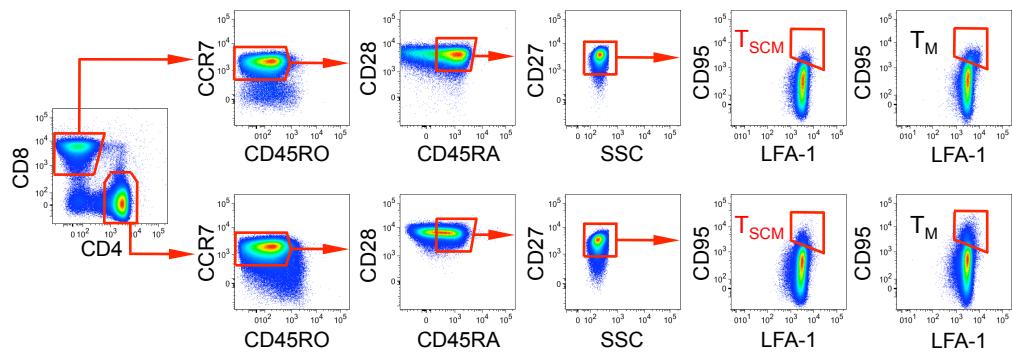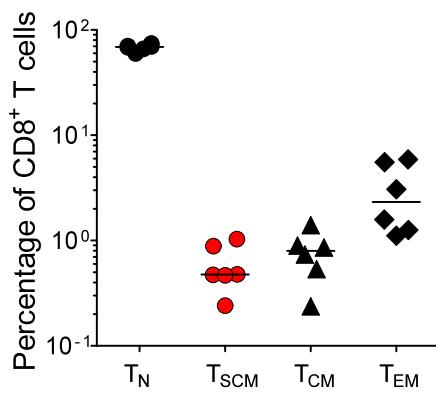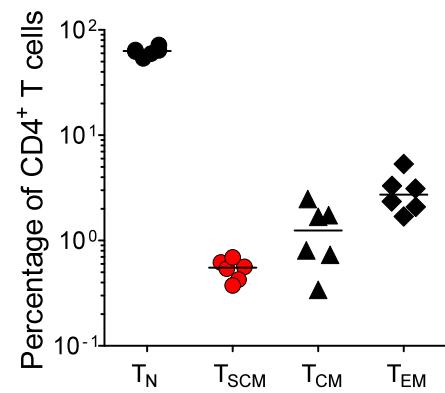
Supplementary Fig. 3. **T$_{SCM}$ cells are found in cord blood**. **a**, Representative flow cytometry analysis of cord blood. Dot plots identify CD95$^+$, LFA-1$^+$ T$_{SCM}$ following depicted sequential gating. T$_M$, Total memory cells in CD8$^+$ and CD4$^+$ T cells from cord blood. **b**, Percent of CD8$^+$ T cell subsets in the cord blood of 6 donors. **c**, Percent of CD4$^+$ T cell subsets in the cord blood of 6 donors.
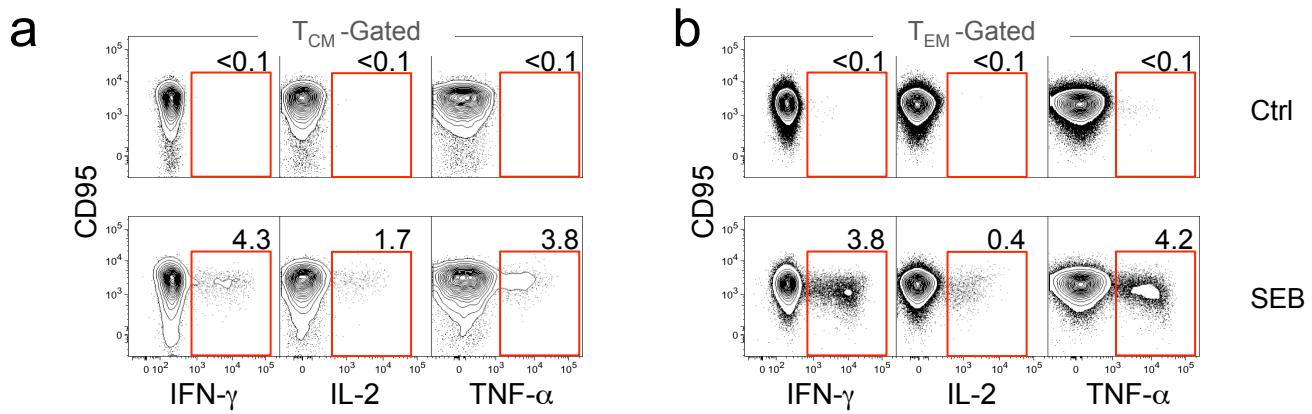
Supplementary Fig. 4. **T$_{CM}$ and T$_{EM}$ cells rapidly acquire effector functions.** Intracellular cytokine staining of PBMC from a healthy donor after a 4h stimulation with SEB. Dot plots show **a**, T$_{CM}$ (CD45RO$^+$CCR7$^+$CD45RA$^-$) gated CD8$^+$ T cells, and **b**, T$_{EM}$ (CD45RO$^+$CCR7$^-$CD45RA$^-$) gated CD8$^+$ T cells. Numbers represent the percentage of cells producing a single cytokine.
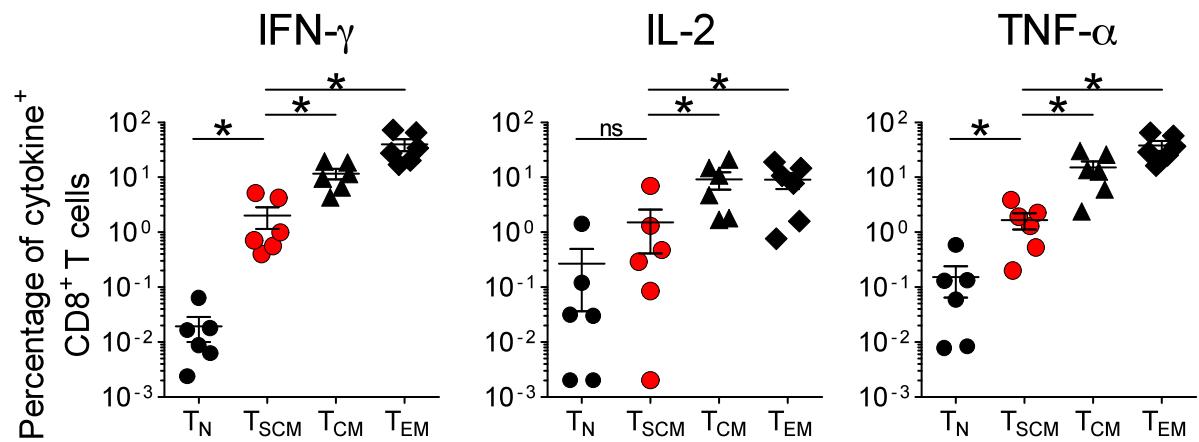
Supplementary Fig. 5. T_{SCM} cells rapidly acquire effector functions similar to conventional memory T cells. Percentage of CD8^{+} T cell subsets producing IFN-γ, IL-2 and TNF-α after a 4h stimulation with α–CD3/CD2/CD28 beads. Graphs depict the results from 6 healthy donors
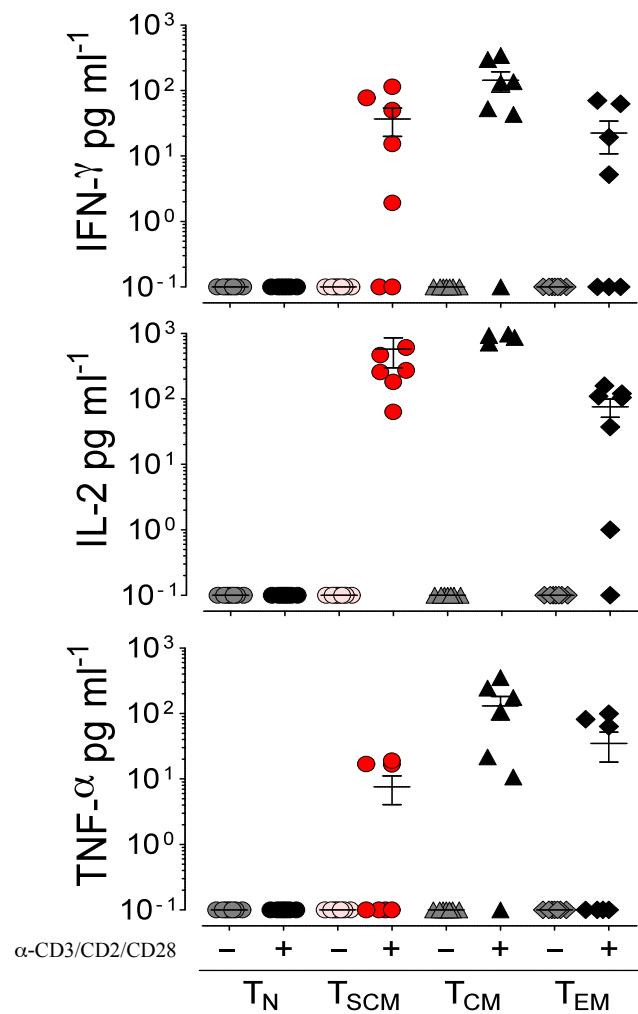
Supplementary Fig. 6. T_{SCM} **cells rapidly release cytokines similar to conventional memory T cells.** IFN-γ, IL-2 and TNF-α release by sorted CD8^{+} T cell subsets after a 24h stimulation with α-CD3/CD2/CD28 beads. Cytokine levels were determined using cytokine bead arrays. Graphs depict the results from 6 healthy donors.
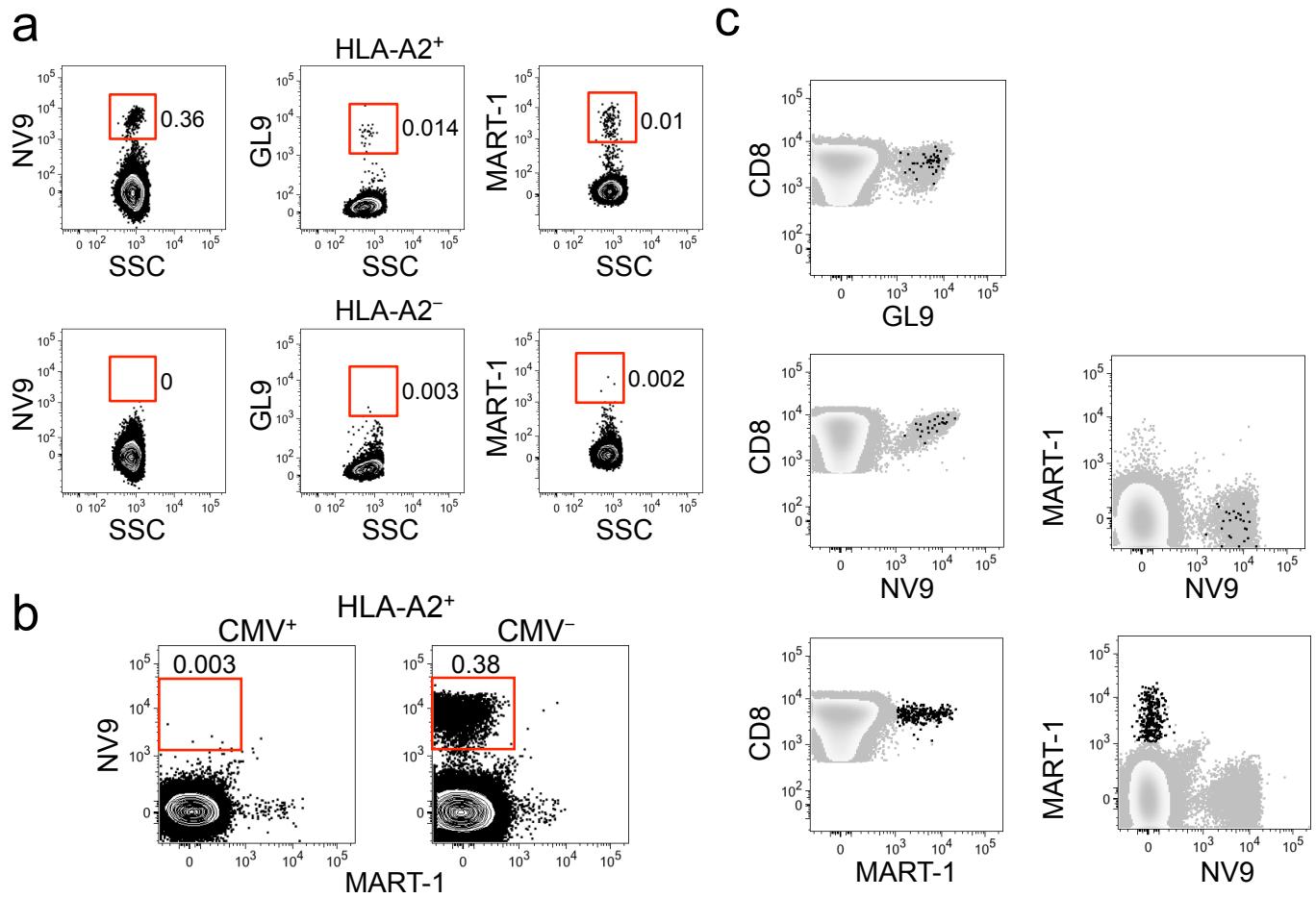
Supplementary Fig. 7. **Specificity of tetramer binding. a,** Representative flow cyotmetry of PBMC of HLA-A2^{+} and HLA-A2^{-} donors. Graphs are shown after gating on CD8^{+} T cells. **b,** Representative flow cyotmetry of PBMC of CMV^{+} and CMV^{-} donors. Graphs are shown after gating on CD8^{+} T cells. **c,** Representative flow cyotmetry of PBMC of healthy donors. Black dots show tetramer^{+} NL-gated (CD45RO^{-} CCR7^{+}CD45RA^{+}CD27^{+}IL7Rα^{+}) CD8^{+} T cells over bulk CD8^{+} T cells (grey density plot).
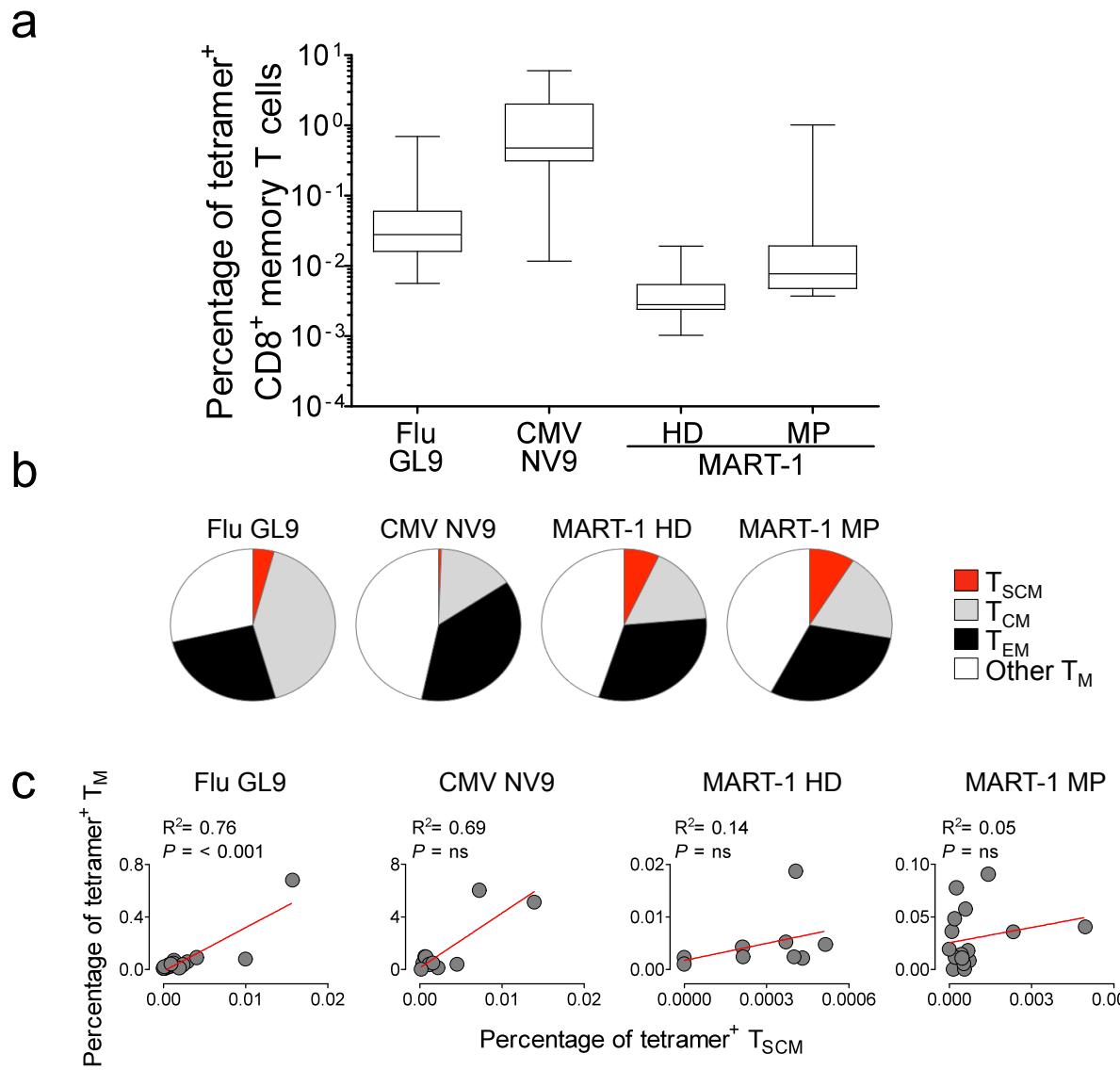
Supplementary Fig. 8. **T_{SCM} cells bear viral and self/tumour specificities. a**, Percent of tetramer^{+} CD8^{+} memory T cells for Influenza matrix protein$_{58-66}$ (GL9), CMV pp65$_{495-503}$ (NV9), and MART-1$_{26-35}$ (27L). Data are represented as means ± s.e.m of 19 donors (GL9), 10 donors (NV9), 9 donors (MART-1 HD) and 17 donors (MART-1 MP). **b**, Pie charts depicting the distribution of different memory CD8^{+} T cell subsets among tetramer^{+} memory T cells. Data are represented as means of 19 donors (GL9), 10 donors (NLV), 9 donors (MART-1 HD) and 17 donors (MART-1 MP). Memory subsets were defined as follows: T_{SCM}: CD45RO^{−}CCR7^{+}CD45RA^{+}CD27^{+} IL7Rα^{+}CD95^{+}; T_{CM}: CD45RO^{+}CD45RA^{−}CCR7^{+}; T_{EM}: CD45RO [+]CD45RA^{−}CCR7^{−} ; Other T_M: cells that do not have a T_{SCM},T_{CM}, or a T_{EM} phenotype. **c**, Correlation between percent of tetramer^{+} conventional memory T cells (T_M) and tetramer^{+} T_{SCM} . Conventional memory were defined as CD8^{+} T cells that were not CD45RA^{+} CCR7^{+} CD27^{+}. HD: healthy donor; MP: melanoma patient.
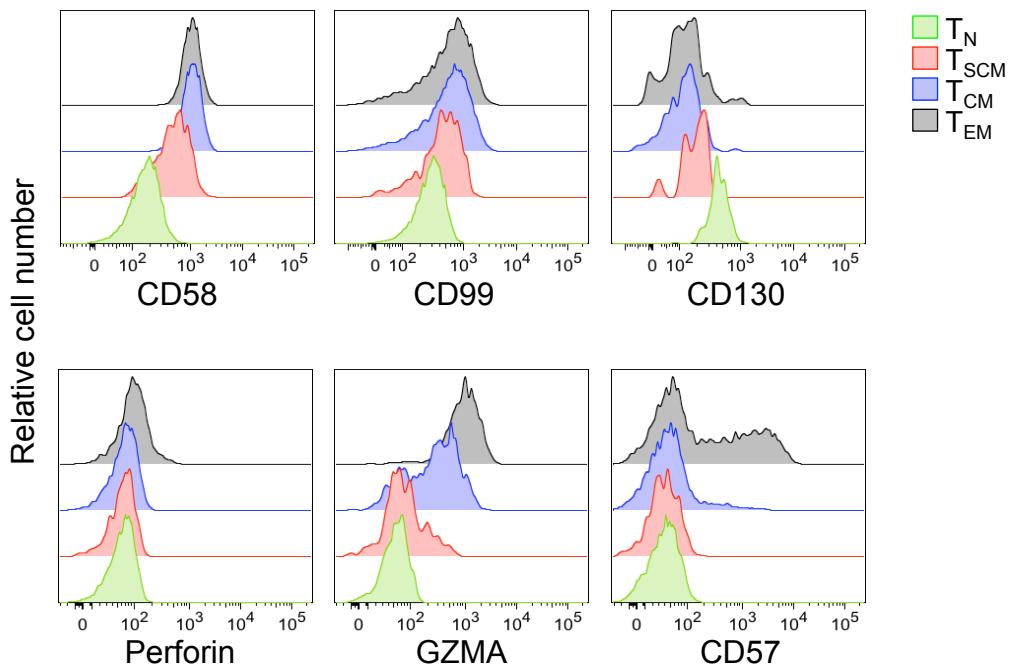
Supplementary Fig. 9 .**Phenotypic characterization of T_{SCM} cells.** Flow cytometry analysis of PBMC from a healthy donor. Overlaid histogram plots show expression levels of a given molecule in different CD8^{+} T cell subsets.
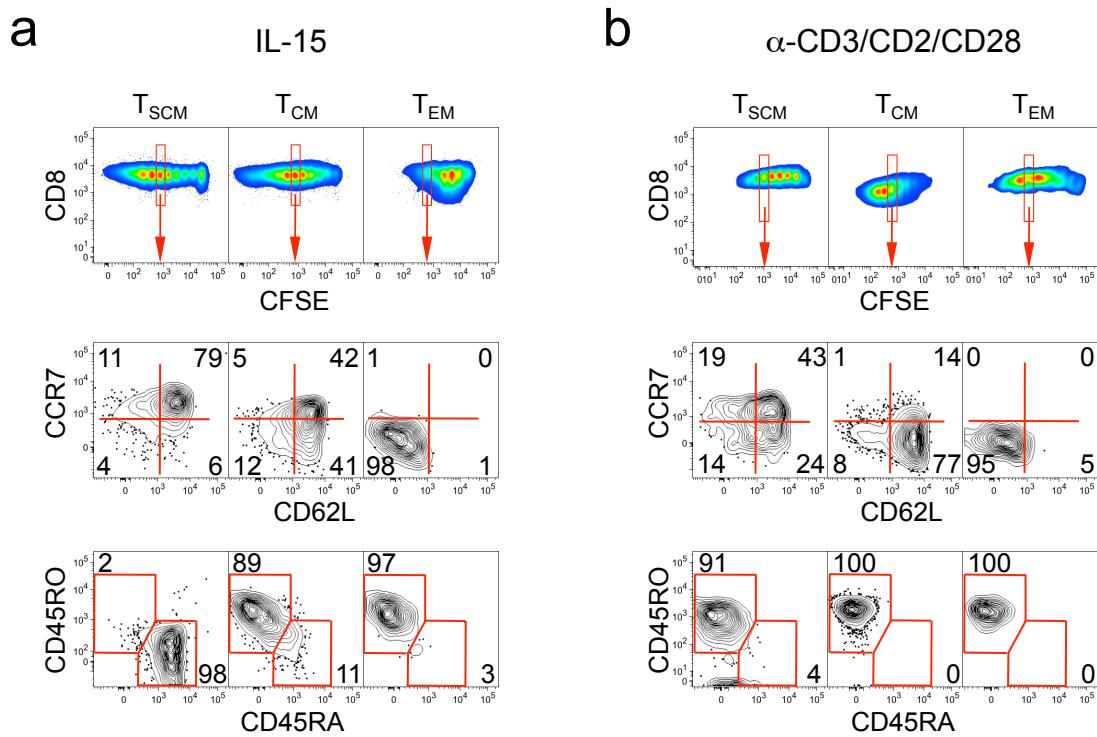
Supplementary Fig. 10. **Self-renewal and multipotency of T_{SCM} cells. a**, CFSE dilution of sorted T_{SCM}, T_{CM} and T_{EM} after exposure to 25ng ml-1 of IL-15. Graphs show the phenotype of CD8+ T cells that underwent 5 divisions in a representative experiment. **b**, CFSE dilution of sorted T_{SCM}, T_{CM} and T_{EM} after stimulation with α-CD3/CD2/CD28-coated beads. Dot plots show the phenotype of CD8+ T cells that underwent 5 divisions in a representative experiment.

a IL-15 1st stimulation

b IL-15 2nd stimulation

c
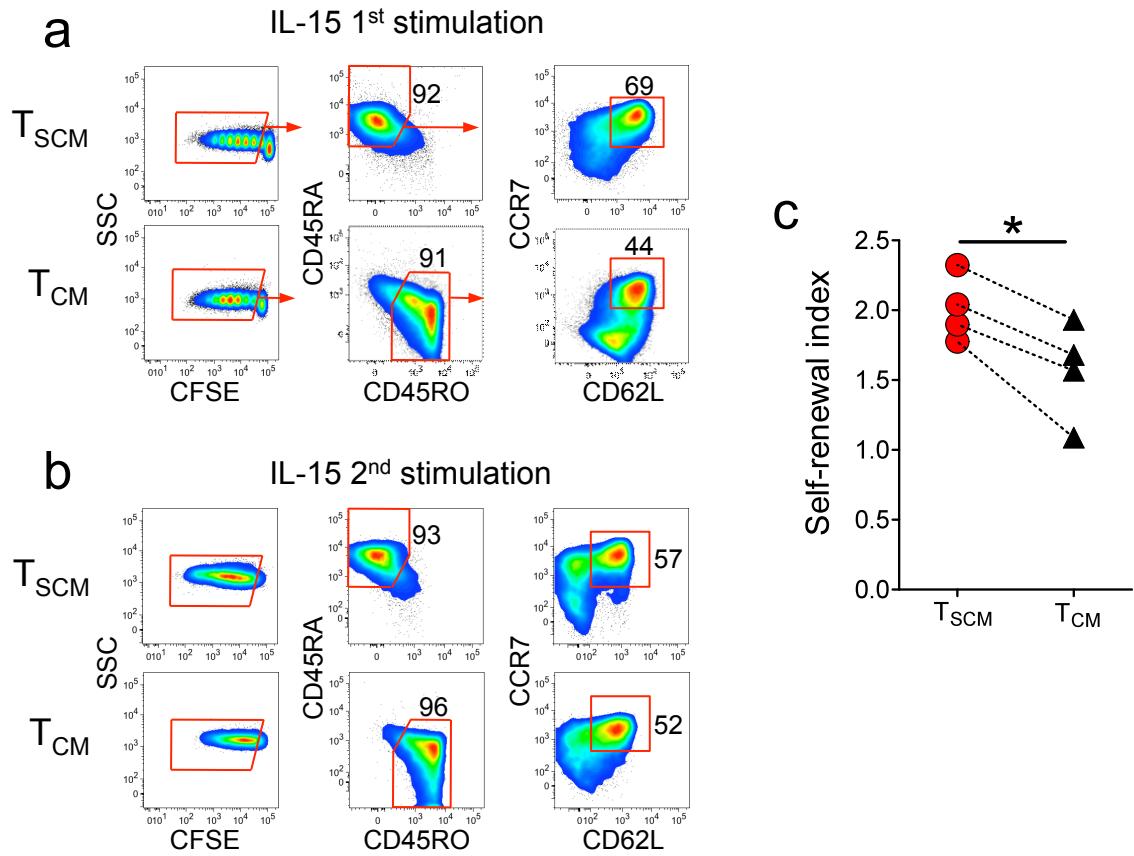
Supplementary Fig. 11. **Increased self-renewal of T$_{SCM}$ cells following secondary IL-15 stimulation. a**, Sorting strategy of CFSE-diluted T$_{SCM}$ and T$_{CM}$ after exposure to 25ng ml^{-1} of IL-15. **b**, Flow cytometry analysis of sorted T$_{SCM}$ and T$_{CM}$ after a secondary stimulation with 25ng ml^{-1} of IL-15. Dot plots show the phenotype of CFSE-diluted CD8$^+$ T cells in a representative experiment. **c**, Self-renewal Index (SI) of CD8$^+$ memory T cell subsets following secondary stimulation with 25ng ml^{-1} of IL-15. SI was calculated as follows: SI= 2^{PI}P$_{RP}$, PI=Proliferation Index, P$_{RP}$= Percent of cells retaining the input phenotype. Graph depicts the results from 4 healthy donors; *p= <0.05
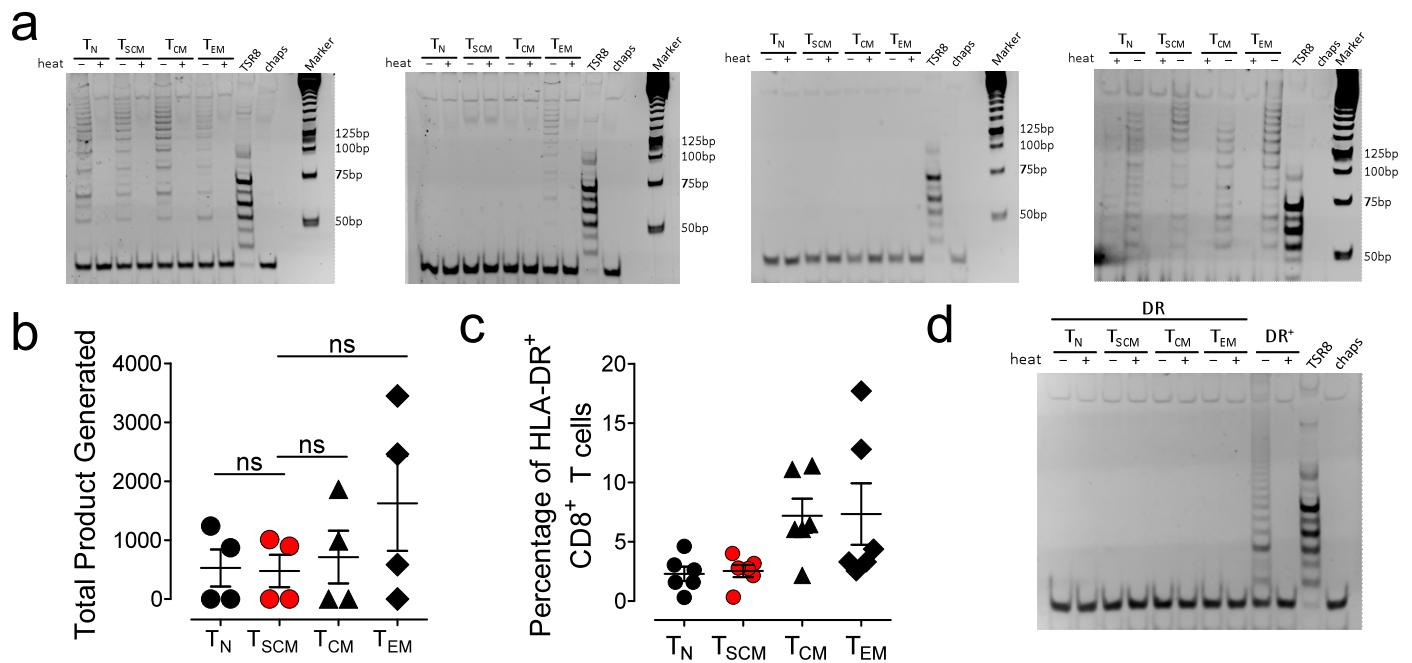
Supplementary Figure 12 . **Telomerase activity is reflective of recent cellular activation rather than a property of resting memory T cells. a**, Trapeze assay on CD8+ T cell subsets from4 healthy donors. **b**, Total Product Generated (TPG) in CD8+ T cell subsets **c**, Percent of HLA-DR+ cells in different CD8+ T cell subsets. **d**, Trapeze assay of CD8+ HLA-DR− T cell subsets and HLA-DR+ bulk CD8+ T cells from a representative healthy donor. Data are consistent with those found by Romero *et al.*[1]
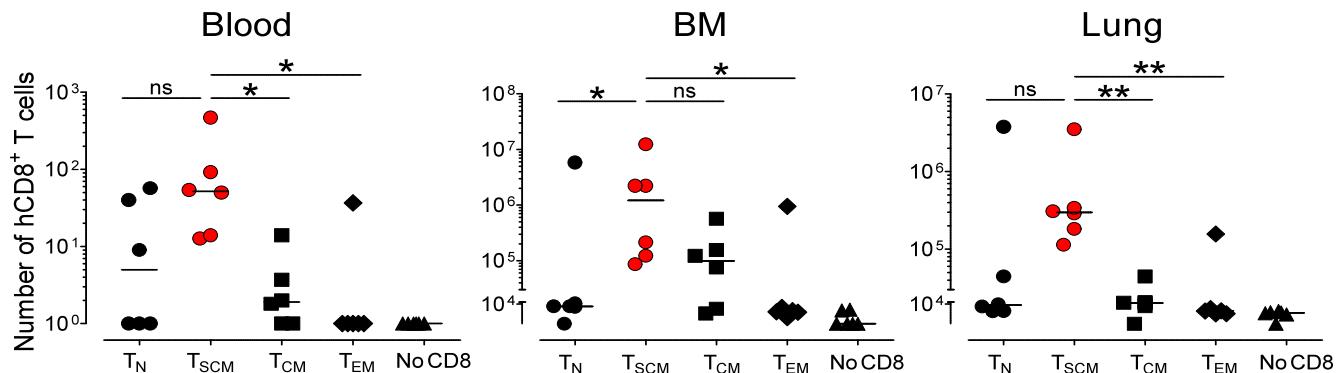
Supplementary Fig. 13. T_{SCM} **cells reconstitute immunodeficient hosts more efficiently than other CD8^{+} T-cell subsets.** Absolute human CD8+ T cell recovery in the blood, bone marrow (BM) and lung of NSG mice 4 weeks following adoptive transfer of CD4^{+} T cells with or without sorted CD8^{+} T cell subsets. A total of 6 mice per T cell subset from two independent experiments (3 replicate mice per T cell subset/ experiment) are shown. Horizontal bars indicate median values. ns= not significant *=p<0.05; **=p<0.01.
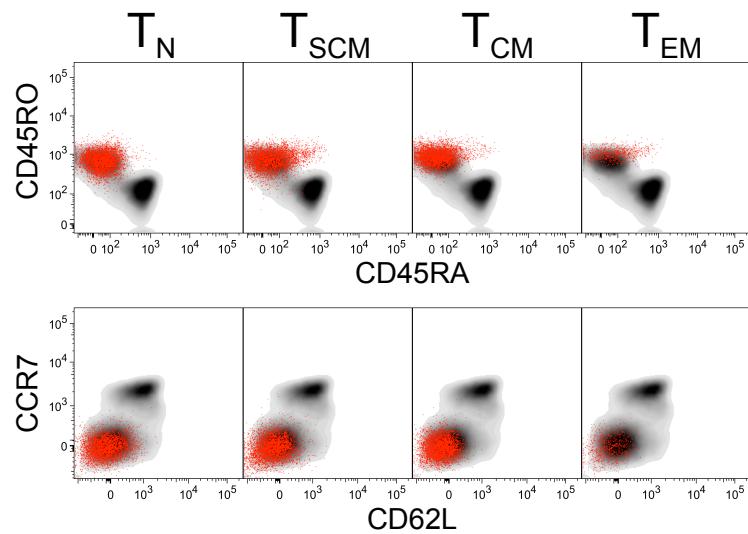
Supplementary Fig. 14. **Effector differentiation of human CD8$^+$ T cells following transfer in NSG mice.**
Flow cytometry analysis of human T cells (in the spleen of a representative NSG mouse at 4 weeks following adoptive transfer of CD4$^+$ T cells (5 x 10^6) with or without sorted CD8$^+$ T cell subsets (1 x 10^6). Graphs show T cells (red dots) overlaid to lymphocytes from peripheral blood of a healthy donor shown as density plot.
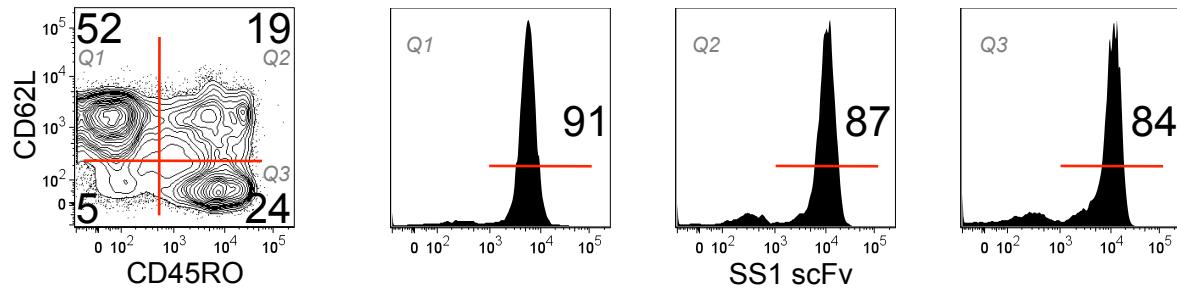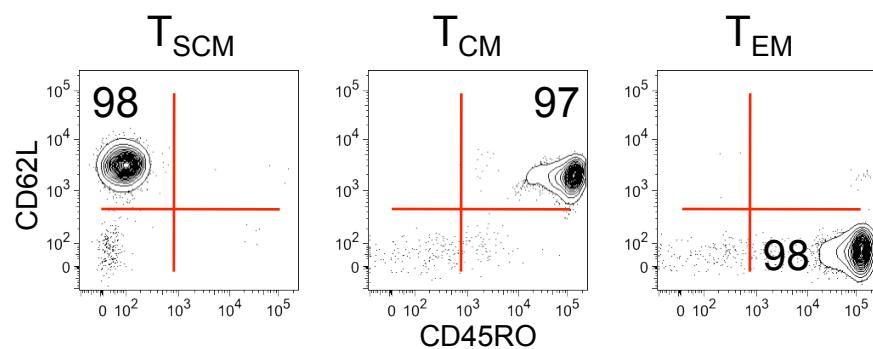
Supplementary Fig. 15. **Generation of mesothelin-specific CD8$^+$ T-cell memory subsets. a**, Flow cytometry analysis of enriched CD8$^+$ T cells transduced with the anti-mesothelin chimeric receptor SS1–BB:TCR-ζ after 17 days stimulation with α-CD3/CD28-coated beads and IL-2 in the presence of TWS119. **b**, Flow cytometry analysis of CD8$^+$ T cell memory subsets after sorting with MACS positive selection Multisort kits.

Supplementary Table 1: Frequency of CMV-specific TCRβ clonotypes in CD8+ T cell subsets

TRBV	CDR3	TRBJ	1999			2000			2001		
			TSCM	TCM	TEM	TSCM	TCM	TEM	TSCM	TCM	TEM
6-5	CASSAVTGTGHYGYTF	1-2	34	44	74	47	57	85	26	55	82
12-4	CASSSANYGYTF	1-2		4	4		8	3		18	16
12-4	CASTPGTYEQYF	2-7				3	6			16	
20-1	CSARVEGGTSGRISYEQYF	2-7	30	23	11	20	6	6		5	
6-2/6-3	CVTGRPQETQYF	2-5								3	
6-2/6-3	CASTLAGMSEQFF	2-1		1			1			1	
30	CAWSRQINEQFF	2-1								1	
4-1	CASSQGPASAYSYEQYF	2-7								1	
4-3	CASSQDRAVNQPQHF	1-5								1	
4-2	CASSQDMAVSNQPQHF	1-5								1	
20-1	CSARAEHGTLESSYNEQFF	2-1		20	1	8	4				
4-1	CASSQETGRMNTEAFF	1-1					4				
7-9	CASSRTGNTEAFF	1-1					1				
27	CASSRREPVRSYEQYF	2-7					1				
7-3	CASSPGTGVEQYF	2-7					1				
9	CASSPEVNSPLHF	1-6					1				
7-9	CASSNTPGPKYGYTF	1-2					1				
7-3	CASSLVGYGYTF	1-2					1				
27	CASSLSAGSTGELFF	2-2					1				
7-3	CASSLKGRGASYNEQFF	2-1					1				
12-3	CASRLAAEETQYF	2-5					1				
6-5	CARSAVTGTGHYGYTF	1-2					1				
4-1	CASSQRYNEQFF	2-1		2							
12-4	CASSFSGGRTGRRETQYF	2-5		2							
6-5	CTSSAVTGTGHYGYTF	1-2		1							
7-6	CASSFGTSAEQFF	2-1		1							
7-6	CASSFGTNAEQFF	2-1		1							
6-5	CASNAVTGTGHYGYTF	1-2		1							
6-5	CAGSAVTGTGHYGYTF	1-2		1				3			
29-1	CSVEQLAGVDYEQYF	2-7	2								
29-1	CSVEGASGGYQETQYF	2-5				1					
20-1	CSARRWDSAYNEQFF	2-1									
29-1	CSAMGLAGSSYNEQFF	2-1				1					
20-1	CGARVEGGTSGRISYEQYF	2-7				1					
30	CAWSVSGSEQYF	2-7	2								
24-1	CATSETGAGSYNEQFF	2-1	4								
24-1	CATSEGVEQYF	2-7				1					
6-5	CATRTGLLYGYTF	1-2	2								
5-1	CATMSGTEAFF	1-1	2								
6-5	CASTLSREGSFNSPLHF	1-6	5								
6-5	CASTAVTGTGHYGYTF	1-2									1
6-5	CASSYGRQGNTEAFF	1-1									
6-2/6-3	CASSYDREEGQGYNEQFF	2-1									
6-5	CASSTVTGTGHYGYTF	1-2						2	1		
5-6	CASSSTGTDNQPQHF	1-5	2								
7-9	CASSSSGQAGTEAFF	1-1							56		
28	CASSQRGNEQFF	2-1				1					
2	CASSPSSGKYNEQFF	2-1				1					
6-2/6-3	CASSPGLEAFF	1-1	2			3					
3-1	CASSPGGSYEQYF	2-7									
27	CASSLSTSGNEQFF	2-1				1					
7-2	CASSLSPGTGKAQPQHF	1-5	2								
5-1	CASSLESGRANEQFF	2-1				1					
3-1	CASSLDRSSGNTIYF	1-3				1					
11-2	CASSIPGPKETQYF	2-5	2								
4-1	CASSHPVGLAAYNEQFF	2-1	2								
5-1	CASSGKQGRRTEAFF	1-1			4						
28	CASSFVPGTNNSPLHF	1-6			2						
12-4	CASSFTGHRYNEQFF	2-1	2								
27	CASSFSSGANVLTF	2-6				1					
27	CASSFPSTTDTQYF	2-3				1					
27	CASSFIGNLNTEAFF	1-1	4								
6-5	CASSFGANYGHTF	1-2				1					
27	CASSFEKFNTGELFF	2-2				3					
25-1	CASSEWGLQDEQYF	2-7			2						
25-1	CASSERGHQETQYF	2-5	2								
28	CASRYDRQTSRTQYF	2-5			1						
12-3	CASGSCEQYF	2-7	2								
6-5	CARSFGANYGYTF	1-2				1					
12-4	CANSSANYGYTF	1-2									1
10-3	CAISESGTGLEKLFF	1-4							16		
10-3	CAISELGQGRGNEQFF	2-1									

Supplementary Table 2   Differentially regulated genes among CD8+ T cell subsets

Gene Symbol	p-value(T cell subtype)	p-value(TSCM vs.TN)	Fold-Change(TSCM vs.TN)	p-value(TSCM vs.TCM)	Fold-Change(TSCM vs.TCM)	p-value(TSCM vs. TEM)	Fold-Change(TSCM vs. TEM)	p-value(TN vs.TCM)	Fold-Change(TN vs. TCM)	p-value(TN vs. TEM)	Fold-Change(TN vs. TEM)	p-value(TCM vs. TEM)	Fold-Change(TCM vs. TEM)
PRAGMIN	9.91E-08	0.00226267	-1.6922	0.00412842	1.78267	0.0015417	1.67908	0.00129176	3.01662	3.06E-05	2.84134	0.280612	-1.06169
THBS1	1.30E-07	0.00128369	2.22071	0.539797	-1.06979	0.00260658	-5.30128	0.0062272	-2.37571	0.000626317	-11.7726	1.84E-05	-4.95542
ADAM8	1.51E-07	0.000465304	1.7226	0.00365572	-1.55274	0.00311766	-2.48769	0.00151303	-2.67476	0.00173831	-4.2853	0.00411283	-1.60213
CD58	1.65E-07	0.00471822	4.26874	0.004386	-2.12697	0.00212238	-2.85231	0.000512353	-9.07948	0.0016947	-12.1758	0.041692	-1.34102
SNORD115-42	5.42E-07	0.00501731	1.66351	0.332156	1.02944	0.0026897	1.67957	0.0125824	-1.61594	0.493039	1.00965	0.000852265	1.63154
ABCA2	1.11E-06	0.0172253	1.54477	0.116709	-1.12686	0.00277156	-1.89043	0.00511178	-1.74074	0.000967171	-2.92028	0.000767525	-1.67761
MAN1A1	1.42E-06	0.0176308	1.34504	0.117549	-1.16881	0.00675898	-2.58619	0.00188692	-1.5721	0.00121487	-3.47852	0.00220774	-2.21266
NSUN5B	1.53E-06	0.0061003	-1.14155	0.0112658	1.2194	0.00886202	1.38545	0.00148922	1.39201	0.00210726	1.58156	0.00705594	1.13617
PPFIBP2	1.70E-06	0.00970509	-1.78824	0.00974233	2.33102	0.00972407	3.1754	0.00200262	4.16844	0.00197413	5.6784	0.140039	1.36224
FOSL2	1.78E-06	0.00301153	3.95086	0.0217722	-1.41245	0.0291982	-2.03016	0.00034848	-5.58039	0.0019427	-8.02086	0.08759	-1.43733
NBEAL2	1.94E-06	0.0112494	2.22995	0.0163264	-2.38181	2.52E-06	-3.34526	0.00274559	-5.31132	0.00177255	-7.45975	0.0948659	-1.4045
MYBL1	1.97E-06	0.00689762	3.93023	0.0403337	-1.57598	0.0143397	-5.95765	0.000565471	-6.19395	0.00138638	-23.4149	0.00828717	-3.78029
SNORD115-26	1.99E-06	0.00498386	1.99825	0.935878	-1.00324	0.00171497	1.8433	0.00337234	-2.00472	0.148004	-1.08406	0.00891325	1.84927
CLDND1	2.17E-06	0.00427788	2.94177	0.0176366	-1.23802	0.973318	1.00185	0.00129176	-3.64197	0.0532009	-2.93634	0.0780838	1.24031
CCL5	2.50E-06	0.00444921	32.679	0.74343	-1.03011	0.00503524	-1.43937	0.0075545	-33.663	0.0295064	-47.0371	0.0771795	-1.39729
SH2D2A	2.51E-06	0.0120844	2.02574	0.0210689	-1.3314	0.00490969	-2.77655	0.00190058	-2.69706	0.0041498	-5.62456	0.00923322	-2.08544
NBEA	3.08E-06	0.0053862	-3.62393	0.989431	1.0011	0.0101654	2.03419	0.00851575	3.62792	0.000182885	7.37175	0.0241657	2.03195
SNORD115-6	3.12E-06	0.00642991	1.62408	0.120837	1.03243	0.00642401	1.66692	0.00353788	-1.57307	0.237622	1.02638	0.00421739	1.61456
MAP1D	3.45E-06	0.00666863	-1.65528	0.0636104	1.25916	0.00286378	2.1459	0.00274415	2.08426	0.00184182	3.55207	0.0270446	1.70423
CHST11	3.49E-06	0.00364439	1.38419	0.0286141	-1.26324	0.0146163	-1.4403	0.00345969	-1.74857	0.00290503	-1.99364	0.00111747	-1.14016
TIMD4	3.51E-06	0.392733	-1.1021	0.00292324	3.31465	0.0086716	6.46749	0.000800144	3.65306	0.002142	7.1278	0.0262516	1.95118
AUTS2	3.55E-06	0.0381008	1.69322	0.018258	-2.49264	0.00988942	-8.96817	0.000566275	-4.22058	0.00175602	-15.1851	0.0015705	-3.59786
SNORD115-11	3.56E-06	0.00226454	1.97287	0.790166	-1.01425	0.00287606	1.81534	0.00305121	-2.00098	0.170102	-1.08678	0.00967969	1.84121
SNORD115-11	3.56E-06	0.00226454	1.97287	0.790166	-1.01425	0.00287606	1.81534	0.00305121	-2.00098	0.170102	-1.08678	0.00967969	1.84121
SNORD115-11	3.56E-06	0.00226454	1.97287	0.790166	-1.01425	0.00287606	1.81534	0.00305121	-2.00098	0.170102	-1.08678	0.00967969	1.84121
SNORD115-11	3.68E-06	0.00226454	1.97287	0.790166	-1.01425	0.00287606	1.81534	0.00305121	-2.00098	0.170102	-1.08678	0.00967969	1.84121
PIP4K2A	3.69E-06	0.0179092	1.04044	0.0682629	-1.06415	0.0641896	-1.3583	0.016995	-1.10719	0.0309143	-1.41323	0.00432059	-1.27642
MYO1F	3.99E-06	0.00583135	2.96031	0.052977	-1.62434	0.00853022	-2.88121	0.00792721	-4.80854	0.00106004	-8.52927	0.019771	-1.77378
SNORD115-12	4.48E-06	0.00533272	1.98743	0.661634	-1.02297	0.00587459	1.807	0.00164297	-2.03308	0.178951	-1.09985	0.00963706	1.84851
SNORD115-12	4.48E-06	0.00533272	1.98743	0.661634	-1.02297	0.00587459	1.807	0.00164297	-2.03308	0.178951	-1.09985	0.00963706	1.84851
SNORD115-12	4.48E-06	0.00533272	1.98743	0.661634	-1.02297	0.00587459	1.807	0.00164297	-2.03308	0.178951	-1.09985	0.00963706	1.84851
SDK2	4.86E-06	0.00385422	-2.12094	0.00377969	1.60841	0.0163392	2.24881	0.0014058	3.41134	0.00245489	4.7696	0.107115	1.39816
UNKNOWN	5.02E-06	0.0323405	2.37392	0.189769	-1.39528	0.0247522	-5.34257	0.00350993	-3.31227	0.00112961	-12.6828	0.0085749	-3.82904
FAM129A	5.40E-06	0.00416919	5.87993	0.0015485	-3.46155	0.0196464	-2.71332	0.0047987	-20.3637	0.00705909	-15.9542	0.205219	1.27576
DNAJC1	5.88E-06	0.00372474	1.35392	0.0220099	-1.2568	0.0088751	-1.80865	0.00809715	-1.70161	0.00568035	-2.44877	0.00370724	-1.43909
FLJ39653	6.22E-06	0.0112951	-1.22136	0.024004	1.05294	0.0404187	1.12959	0.00278489	1.28603	0.000144665	1.37963	0.0547421	1.07279
ACOT9	6.41E-06	0.002024	1.95583	0.326282	-1.10728	0.0100305	-1.57221	0.00444024	-2.16565	0.00101711	-3.07499	0.0458664	-1.41989
TARP	6.41E-06	0.0192343	2.09912	0.0329152	-1.40936	0.0132221	-4.92327	0.00481382	-2.95841	0.00119677	-10.3345	0.0134388	-3.49327
GBP2	6.61E-06	0.00623545	1.35354	0.5489	1.02481	0.0184151	-1.30428	0.00242822	-1.32078	0.00145901	-1.7654	0.0117718	-1.33664
SELL	6.68E-06	0.467505	1.06449	0.252693	1.13116	0.00459254	30.0668	0.273967	1.06263	0.00805592	28.2452	0.00826915	26.5806
HMGB3	6.94E-06	0.0155736	1.68247	0.00382397	-2.02835	0.0018968	1.24741	0.00743696	-3.41264	0.0574914	-1.34878	0.00137723	2.53017
FOXP1	6.96E-06	0.0121515	-1.3705	0.080818	1.16234	0.013601	1.4436	0.00916386	1.59299	0.00253209	1.97844	0.0168445	1.24197
BMPR1A	7.04E-06	0.0213676	1.7822	0.073292	-1.3352	0.00252175	-1.78118	0.000144383	-2.3796	0.00256272	-3.17442	0.00477275	-1.33401
LRRN1	7.33E-06	0.00325955	-2.67153	0.000833001	1.81412	0.0244968	2.89665	0.000610973	4.84648	0.00324048	7.73848	0.0935411	1.59672
WNT7A	7.97E-06	0.241275	1.11277	0.986515	1.00163	0.00381162	2.48233	0.133267	-1.11095	0.00113532	2.23077	0.00107343	2.47828
RNF166	8.30E-06	0.00539847	1.48109	0.085839	-1.19568	0.00376137	-1.43976	0.0023905	-1.77091	0.00192272	-2.13242	0.0903178	-1.20414
FAM38A	9.26E-06	0.0236923	2.03802	0.0118389	-1.57233	0.0115776	-1.71683	0.00567471	-3.20444	0.00197569	-3.49892	0.260166	-1.0919
PTPRM	9.33E-06	0.00797741	2.1391	0.0243441	-2.16065	0.0891706	-9.47301	0.00644218	-4.62186	0.00244364	-20.2638	0.0287211	-4.38433
MAF	9.34E-06	0.0354317	1.60456	0.0264973	-2.64936	0.0098329	-4.4993	0.00614224	-4.25105	0.00113806	-7.21937	0.0197814	-1.69826
ST8SIA1	9.70E-06	0.00777112	3.9827	0.122733	-1.34792	0.7017	-1.04361	0.0031738	-5.36836	0.000483408	-4.1564	0.127185	1.29159
IDS	9.70E-06	0.0306625	1.16934	0.0232766	-1.18879	0.0033504	-1.34416	0.00960105	-1.39011	0.000684421	-1.57178	0.0566614	-1.13089
JOSD1	9.86E-06	0.00792942	2.09948	0.0397542	-1.28909	0.107469	-1.16643	0.00242313	-2.70432	0.00268626	-2.4489	0.322898	1.1043
CLSTN3	1.01E-05	0.00890614	1.53354	0.0764763	-1.34947	0.0172097	-1.99453	0.00422362	-2.06946	0.00209357	-3.05869	0.000126991	-1.47801
P2RY8	1.02E-05	0.0123566	1.64251	0.00164103	-1.26333	0.0102038	-1.09111	0.00748909	-2.07504	0.0082982	-1.79216	0.0069349	1.15784
P2RY8	1.02E-05	0.0123566	1.64251	0.00164103	-1.26333	0.0102038	-1.09111	0.00748909	-2.07504	0.0082982	-1.79216	0.0069349	1.15784
LRIG1	1.06E-05	0.00893925	2.58571	0.085408	-1.36406	0.0297177	-1.23479	0.00323754	-3.52707	0.00466887	-3.1928	0.125104	1.1047
PLXND1	1.10E-05	0.00372958	3.96404	0.0681041	-2.04155	0.00984386	-4.84705	0.0125457	-8.09279	0.00266967	-19.2139	0.0179859	-2.3742
HBS1L	1.15E-05	0.862001	1.0077	0.00669919	1.33129	0.00862785	1.50751	0.00677212	1.32111	0.00457897	1.49599	0.0206755	1.13237
CACNB3	1.26E-05	0.0702367	1.39541	0.0105111	-1.68772	0.00130565	-2.30777	0.0142975	-2.35507	0.00316527	-3.2203	0.0236163	-1.36739
MYB	1.27E-05	0.178035	1.33191	0.0098121	2.96185	0.0021667	8.88021	0.0373774	2.22376	0.00177171	6.51711	0.0249431	2.93068
DSC1	1.28E-05	0.178677	-1.39142	0.12244	1.96372	0.00361216	14.3569	0.0140565	2.73236	0.00138929	19.9765	0.0128318	7.31107
RHOH	1.31E-05	0.00235656	-1.3093	0.193259	1.06238	0.00517862	1.39852	0.0153207	1.39098	0.000880369	1.83109	0.038517	1.3164
FAM113A	1.33E-05	0.0143708	-1.27845	0.00141615	1.15454	0.014088	1.14091	0.00400793	1.47602	0.0108941	1.45859	0.566712	-1.01195
SNORD115-20	1.38E-05	0.0124719	1.86895	0.0625288	-1.13798	0.0198678	1.57889	0.00300961	-2.12683	0.0168563	-1.18371	0.0045849	1.79675
NPC1	1.40E-05	0.0327133	1.63156	0.03474	-1.3467	0.0365103	-3.14888	0.00829624	-2.19723	0.00617869	-5.1376	0.020795	-2.33821
MXRA7	1.42E-05	0.00533035	1.46491	0.0653788	-1.25857	0.00732335	-2.02843	0.0202662	-1.8437	0.00551716	-2.97148	0.00429769	-1.61169
SGTB	1.45E-05	0.0221219	-1.20704	0.207798	1.1307	0.00171385	1.97479	0.001383	1.3648	0.000819015	2.38365	0.0197331	1.74652
ATG2A	1.58E-05	0.0220061	1.24064	0.135856	-1.0953	0.0231172	-1.26128	0.000293133	-1.35887	0.00103101	-1.5648	0.00678386	-1.15154
ZNF238	1.58E-05	0.203962	-1.14016	0.0892134	1.14537	0.001317	2.21422	0.0217633	1.30591	0.00740518	2.52457	0.0098159	1.93319
CNNM3	1.60E-05	0.115885	1.11635	0.00130444	-1.35921	0.0142581	-1.66446	0.00544135	-1.51735	0.0011087	-1.85811	0.0577696	-1.22457
NCAPH	1.66E-05	0.00784854	2.76233	0.0144006	-3.90517	0.0420337	-2.74215	0.00124699	-10.7874	0.00519856	-7.57472	0.172949	1.42413
OCM2	1.68E-05	0.036401	-1.03388	0.332784	1.16258	0.00140659	2.93399	0.194078	1.19162	0.000606448	3.03338	0.00741561	2.54558
CHMP7	1.68E-05	0.00585986	-1.63599	0.107089	1.38895	0.010149	2.68467	0.012197	2.27231	0.00416048	4.39209	0.00883477	1.93287
PHACTR2	1.68E-05	0.0197976	2.1235	0.000158255	-2.3582	0.0214872	-2.98937	0.00426335	-5.00763	0.00266193	-6.34793	0.29189	-1.26765
CTDSP1	1.69E-05	0.029861	-1.05071	0.00347049	-1.10893	0.0653072	-1.33986	0.0661678	-1.0554	0.0847595	-1.27519	0.0160726	-1.20825
HLA-DOA	1.70E-05	0.0227487	-1.82461	0.168711	1.22048	0.00794378	1.99514	0.0126132	2.22691	0.000883481	3.64036	0.0154175	1.63472
UNKNOWN	1.76E-05	0.0042607	1.73441	0.00834	1.17683	6.35E-05	1.76821	0.00656932	-1.4738	0.662793	1.01948	0.0191056	1.5025
SNORD115-11	1.80E-05	0.00597972	2.01807	0.826499	1.01373	0.00350397	1.88763	0.010249	-1.99075	0.223474	-1.0691	0.0178008	1.86207
PTPRK	1.81E-05	0.00780948	-3.96543	0.255671	1.30618	0.0238035	1.70926	0.0086696	5.17956	0.00137403	6.77796	0.118497	1.3086
ADCY9	1.84E-05	0.0018301	1.27208	0.0139402	-1.11972	0.0107422	-2.0838	0.0321401	-1.42438	0.00106477	-2.65077	0.010489	-1.861
EPHA4	2.00E-05	0.000453354	10.3023	0.0550098	-1.45813	0.16964	-1.16331	0.00163882	-15.0221	0.0131437	-11.9847	0.322974	1.25344
MXD4	2.04E-05	0.0061032	1.17643	0.0158364	-1.16811	0.0698693	-1.72865	0.0152805	-1.3742	0.00462567	-2.03363	0.0162773	-1.47986
RNF19A	2.08E-05	0.00487637	1.79001	0.0864489	-1.46405	0.00646492	-1.80421	0.00759114	-2.62067	0.0135449	-3.22956	0.132191	-1.23234
LRP8	2.10E-05	0.0162024	1.72418	0.077867	-1.2301	0.0569478	-1.42652	0.00205279	-2.12092	0.00225768	-2.45958	0.0320529	-1.15967
MYO5A	2.15E-05	0.00162312	1.26495	0.0191565	-1.2942	0.0146387	-1.59094	0.00315995	-1.6371	0.000651725	-2.01246	0.00630676	-1.22928
LEF1	2.21E-05	0.0160759	-1.23562	0.0585569	1.25608	0.00825779	7.34183	0.00538289	1.55204	0.00870699	9.0717	0.0170306	5.84502
STOM	2.24E-05	0.00269587	3.15389	0.0424174	-1.20034	0.0344485	-1.94075	0.00259677	-3.78573	0.00965307	-6.12091	0.0936752	-1.61684
BMPR1A	2.26E-05	0.0225153	1.60421	0.0533498	-1.38024	0.00421359	-1.71623	0.0136516	-2.2142	0.0952164	-2.7532	0.00489952	-1.24343
ZEB2	2.28E-05	0.00208667	4.6123	0.00107252	-1.95859	0.0203743	-6.97726	0.00170489	-9.03362	0.0985865	-32.1812	0.0393127	-3.56238
EIF2C4	2.39E-05	0.0545947	1.3672	0.00564822	-1.73584	0.0482292	-2.83673	0.00512464	-2.23727	0.0118463	-3.87839	0.0194938	-1.63421
HLA-DOA	2.50E-05	0.0204796	-1.69404	0.100895	1.15947	0.0497859	1.51637	0.0163763	1.96419	0.0041909	2.5688	0.0208659	1.30782
SLFN11	2.55E-05	0.00891487	1.35781	0.00878864	-2.61708	0.013494	-2.72891	0.00842128	-3.55351	0.012338	-3.70535	0.577454	-1.04273
TGFBR3	2.57E-05	0.0180451	2.41474	0.00710625	-2.10423	0.0198162	-3.37037	0.00929638	-5.08118	0.0055393	-8.13858	0.0801087	-1.60171
GZMK	2.60E-05	0.00497381	75.0522	0.295884	-1.26205	0.693754	-1.17197	0.00929638	-94.7195	0.00826343	-87.9588	0.829096	1.07686
ERN1	2.62E-05	0.0125268	1.91519	0.0200908	-2.03497	0.00735977	-3.0052	0.00386083	-3.89736	0.00518703	-5.75552	0.178128	-1.47678
AHNAK	2.67E-05	0.00403359	2.09702	0.0493339	-1.36318	0.0374452	-1.79678	0.0070818	-2.85862	0.00751324	-3.76788	0.121815	-1.31808
TGFB1	2.73E-05	0.0101953	1.33622	0.0469948	-1.46456	0.00207056	-1.86951	0.0135503	-1.95696	0.000145714	-2.49806	0.112797	-1.2765
CST7	2.74E-05	0.00403939	8.08281	0.0193134	-2.6812	0.0380605	-4.13029	0.00762365	-21.6716	0.00578962	-33.3843	0.0372903	-1.54047
TBX21	2.78E-05	0.00152361	2.97171	0.240503	-1.10364	0.005002	-2.05205	0.00727051	-3.27971	0.00657339	-6.09809	0.0585535	-1.85934
CACNB1	2.84E-05	0.00735027	1.56098	0.0135597	-1.07902	0.0282874	-1.37941	0.008806	-1.68432	0.0106795	-2.15324	0.0347732	-1.2784
TPRG1	2.85E-05	0.0385455	3.04857	0.0240551	-1.93644	0.00314364	-2.38539	0.00532254	-5.90336	0.00790768	-7.27204	0.0660052	-1.23185
LRRC16A	2.85E-05	0.001273	-1.69086	0.149743	1.33124	0.00300459	2.8346	0.0286334	2.25094	0.002708	4.79292	0.0215877	2.1293
WEE1	2.88E-05	0.00616158	4.14954	0.0407973	-2.13723	0.0603684	-2.35598	0.00363499	-8.4695	0.00964177	-9.77624	0.523788	-1.10236
UNKNOWN	2.96E-05	0.00242298	1.36425	0.146787	1.0397	0.00897969	1.27733	0.011959	-1.31215	0.0156224	-1.06805	0.0322249	1.22856
GAL3ST4	3.14E-05	0.00548412	-1.54171	0.0261167	1.5782	0.0112249	2.02833	0.00233375	2.43312	0.0643157	3.1271	0.180511	1.28522
GLCCI1	3.15E-05	0.764555	-1.02064	0.0391198	-1.2114	0.0184141	-2.1114	0.175364	-1.1869	0.00182622	-2.0687	0.0135549	-1.74294
DCBLD2	3.16E-05	0.0164805	-1.71595	0.0652256	1.24426	0.0226018	1.52235	0.018073	2.13508	0.0664452	2.61227	0.00271024	1.2235
FAM53B	3.18E-05	0.0097467	1.26095	0.00335127	-1.71551	0.0167665	-2.75586	0.00374111	-2.16316	0.00468793	-3.47499	0.051909	-1.60644
UNKNOWN	3.20E-05	0.00236439	1.73865	0.0695491	1.18991	0.00146797	1.80055	0.0140159	-1.46116	0.537993	1.0356	0.0260945	1.51318
CLIC1	3.24E-05	0.00206263	2.07474	0.125021	-1.44159	0.0100777	-2.0698	0.0123989	-2.99093	0.00301585	-4.29431	0.0694171	-1.43578
CLIC1	3.29E-05	0.000165968	2.37452	0.190712	-1.34759	0.00943322	-2.04358	0.0188368	-3.04558	0.01886066	-6.85253	0.0174094	-1.51648
SLC1A4	3.36E-05	0.0456114	1.39432	0.164043	-3.0405	0.0143944	-4.37558	0.0985862	-4.23942	0.0103652	-6.10093	0.0129491	-1.4391
DEPDC7	3.38E-05	0.00403787	-2.36577	0.108697	1.22587	0.0579152	1.64732	0.00766005	2.90012	0.00368158	3.89719	0.120476	1.3438
PIM2	3.44E-05	0.0058341	-1.53372	0.0458007	1.32401	0.0199871	1.95277	0.0100162	2.03066	0.00362373	2.99501	0.0570805	1.47489
MAP3K5	3.50E-05	0.0223524	2.21064	0.209135	-1.15874	0.0691493	-1.77036	0.0078736	-2.56157	0.0091751	-3.91363	0.0457219	-1.52783
ERMP1	3.52E-05	0.425719	-1.04874	0.476028	-1.05783	0.0066482	-1.68206	0.710011	-1.00867	0.00389692	-1.60389	0.0022648	-1.5901
GGA2	3.58E-05	0.0118854	1.28946	0.012195	-1.47466	0.0139449	-1.6539	0.0104566	-1.90152	0.00771996	-2.32761	0.166829	-1.22408
NOG	3.61E-05	0.0287452	-2.36496	0.0183687	4.04517	0.0633113	4.43908	0.00573883	9.56667	0.00410094	10.4982	0.771253	1.09738
RAB1B	3.63E-05	0.540116	-1.02237	0.00458782	-1.17051	0.0124468	-1.42854	0.0177927	-1.1449	0.0024186	-1.39728	0.0271661	-1.22044
CHP	3.65E-05	0.00517335	1.45287	0.181586	-1.08401	0.0224109	-1.20406	0.0122803	-1.57492	0.000386152	-1.74935	0.218516	-1.11075
FTH1	3.67E-05	0.00878419	1.43028	0.16043	-1.09359	0.870671	-1.00803	0.000096476	-1.56414	0.00729376	-1.44176	0.0565455	1.08488
ARID5B	3.68E-05	0.000307001	2.99031	0.0132295	-1.47146	0.423938	1.17216	0.000461105	-4.40013	0.0226915	-2.55112	0.0415889	1.72478
ZC3H12D	3.75E-05	0.0023619	1.77145	0.0584697	1.45599	0.000362854	2.6961	0.130573	-1.21667	0.00310587	1.52197	0.0259214	1.85173
GRLF1	3.78E-05	0.0819647	1.31911	0.0829555	-1.55666	0.0164551	-2.69819	0.0130592	-2.05294	0.00124801	-3.5592	0.0455037	-1.73332
TXNRD3IT1	3.76E-05	0.00190905	-2.79014	0.169291	1.16442	0.0876496	1.37686	0.00419666	3.2489	0.00471325	3.84162	0.424713	1.18244
USP46	3.79E-05	0.00239229	2.88694	0.0152922	-2.22805	0.0781054	-1.46279	0.00257131	-6.43226	0.0107032	-4.22299	0.184596	1.52316
PAM	3.86E-05	0.0199218	1.75101	0.0916121	-1.29998	0.0085671	-1.6828	0.00160009	-2.27628	0.00563512	-2.9466	0.12893	-1.29448
FAM46C	3.94E-05	0.000151847	2.38455	0.199178	-1.30603	0.0221943	-1.99378	0.00142223	-3.1143	0.00476207	-4.75429	0.0481726	-1.5266
GBP5	4.08E-05	0.0171298	2.40454	0.560373	1.06214	0.0169404	-2.71925	0.0392015	-2.26386	0.000916626	-6.53855	0.0258359	-2.88823
ANXA2P2	4.37E-05	0.00948222	2.14981	0.447382	-1.69677	0.00869701	-2.31306	0.0198343	-3.64772	0.00840153	-4.97263	0.014184	-1.36322
IL6ST	4.50E-05	0.00356465	-2.02168	0.63256	1.11083	0.013613	2.85814	0.0310896	2.24575	0.00231292	5.77825	0.00792746	2.57297
TMX4	4.56E-05	0.00974029	1.09757	0.0437585	-1.21361	0.00646865	-1.97239	0.022017	-1.33202	0.00211152	-2.16483	0.0210196	-1.62522
UNKNOWN	4.70E-05	0.00557075	1.02436	0.128304	1.0612	0.00445835	1.24681	0.281092	1.03596	0.00574064	1.21717	0.00887588	1.17491
LOC100129858	4.74E-05	0.0228274	-1.53688	0.046162	1.28441	0.00839116	1.33879	0.00379543	1.97398	0.00767121	2.05756	0.615454	1.04234
FAM117B	4.98E-05	0.0543794	-1.23605	0.0578279	1.51856	0.00106752	2.4717	0.0117159	1.87701	0.0044003	3.05514	0.0679078	1.62766
SLC40A1	4.99E-05	0.00149271	-3.14034	0.0511072	-1.51702	0.0400159	1.71975	0.00605869	2.07008	0.00730159	5.40059	0.0414414	2.60889
GJB6	5.02E-05	0.00270628	-1.72597	0.012777	1.96545	0.0278187	3.10529	0.00826198	3.39231	0.00950916	5.35963	0.078466	1.57994
B4GALT5	5.11E-05	0.264966	1.23818	0.183661	-1.1777	0.0174164	-2.9661	0.0228849	-1.45821	0.0011084	-3.67257	0.00662494	-2.51855
UNKNOWN	5.17E-05	0.00366162	1.34997	0.181911	1.06809	0.000651828	1.30824	0.00949697	-1.26391	0.336892	-1.0319	0.035721	1.22484
RASGRP2	5.17E-05	0.00494898	-1.46816	0.0513667	1.17055	0.0187505	1.77263	0.00778531	1.71855	0.00491162	2.6025	0.0686116	1.51436
CTNNA1	5.34E-05	0.0389416	1.60943	0.111984	-1.44082	0.0199904	-3.19215	0.0200334	-2.3189	0.00382756	-5.13752	0.00927605	-2.2155
SESN3	5.46E-05	0.0427483	2.57498	0.0819508	-1.77751	0.00157746	6.14378	0.028145	-3.03206	0.075412	2.38595	0.0102589	7.23433
ANKRD31	5.47E-05	0.0107563	-2.47482	0.347277	1.13348	0.0170114	1.529	0.00157542	2.80515	0.00205755	3.78399	0.157542	1.34894
LCP1	5.48E-05	0.0453275	1.15885	0.019451	-1.24393	0.00593911	-1.50511	0.0166161	-1.44153	0.0129856	-1.7442	0.0375471	-1.20997
RAB27A	5.48E-05	0.0120287	1.78758	0.0435844	-1.01245	0.00639162	-1.81193	0.00639162	-2.03272	0.152	-1.57746	0.0503716	-1.40782
WIPI1	5.51E-05	0.0265406	1.54837	0.0694513	-1.31069	0.0125226	-2.37265	0.00252	-2.02944	0.00330716	-3.67373	0.0557744	-1.81022
NELL2	5.55E-05	0.723917	1.02997	0.097931	1.34814	0.0145944	3.37801	0.0598252	1.30891	0.00407925	3.27972	0.0129089	2.50569
SEH1L	5.71E-05	0.0538075	-1.19351	0.320873	1.03605	0.0156756	1.19215	0.00625119	1.23654	0.00413841	1.42285	0.00156432	1.15067
SNORD115-11	5.86E-05	0.0104185	2.17096	0.898968	-1.00335	0.00549091	1.87803	0.0116672	-2.17824	0.34697	-1.15598	0.00825924	1.88432
UNKNOWN	6.05E-05	0.0181078	1.76265	0.646594	-1.02927	0.0324951	1.66646	0.0125485	-1.71253	0.351652	-1.05811	0.0140447	1.60935
CYTH3	6.13E-05	0.0253907	1.48984	0.0198375	-2.97495	0.00757553	-6.02106	0.0161076	-4.43219	0.00431021	-8.97041	0.143122	-2.02392
LOC283174	6.14E-05	0.0211947	3.17819	0.0940848	-1.66348	0.006709	5.04098	0.0213093	-5.28686	0.00691769	1.58612	0.0101532	8.38558
CRTC3	6.15E-05	0.308414	1.07239	0.0640992	1.40454	0.00353356	2.02826	0.0237201	1.30973	0.0036157	1.89134	0.0252895	1.44407
IRF4	6.19E-05	0.00462503	6.46448	0.241133	1.30362	0.11049	1.60089	0.000529722	-4.93687	0.0124287	-4.03836	0.381486	1.22803
SULT1B1	6.21E-05	0.0133697	-5.00719	0.189641	1.83317	0.0590558	4.04532	0.00307328	9.17902	0.00340866	20.2557	0.00361	2.20673
TCIRG1	6.32E-05	0.078382	1.17283	0.0214902	-1.20594	0.0093561	-1.23958	0.0105275	-1.41437	0.00504616	-1.45383	0.29131	-1.0279

Gene												
RGMB	6.39E-05	0.0786522	-1.42335	0.10852	-1.05236	0.00667371	1.94006	0.0813559	1.35253	0.00822602	2.76137	0.00712346	2.04164
SFXN1	6.46E-05	0.0327926	1.17265	0.151773	-1.15786	0.0185127	1.78087	0.0237491	-1.35776	0.0253302	1.51867	0.000878525	2.062
CEP68	6.50E-05	0.25325	-1.10398	0.805954	1.02092	0.00213062	2.26061	0.431534	1.12707	0.00878429	2.49566	0.00222545	2.21429
PRR5L	6.50E-05	0.0731053	2.12998	0.00642123	-4.34362	0.0242373	-8.68834	0.00200686	-9.25179	0.0894646	-18.5059	0.129653	-2.00025
PDK1	6.60E-05	0.00841374	-1.62871	0.074122	1.34283	0.0257501	1.44262	0.014063	2.18709	0.000697436	2.34962	0.481148	1.07431
ACTN4	6.70E-05	0.0341505	1.51065	0.0431444	-1.43893	0.0280679	-2.25365	0.000328651	-2.17523	0.00792453	-3.40448	0.042838	-1.56511
SNORD115-1	6.94E-05	0.0117041	1.64891	0.565082	1.04113	0.0179727	1.53743	0.00528886	-1.58376	0.260942	-1.07251	0.00112887	1.47668
SNORD115-1	6.94E-05	0.0117041	1.64891	0.565082	1.04113	0.0179727	1.53743	0.00528886	-1.58376	0.260942	-1.07251	0.00112887	1.47668
SNORD115-1	6.94E-05	0.0117041	1.64891	0.565082	1.04113	0.0179727	1.53743	0.00528886	-1.58376	0.260942	-1.07251	0.00112887	1.47668
PRDM1	7.34E-05	0.0304914	3.57947	0.017462	-1.90451	0.0126955	-5.26597	0.0144421	-6.81716	0.00906542	-18.8494	0.0654186	-2.76499
FAM153B	7.35E-05	0.0406805	-1.42768	0.0880125	1.33303	0.00636873	3.1924	0.0602238	1.90314	0.00191942	4.55773	0.0417718	2.39485
PYGB	7.39E-05	0.0234919	-1.31998	0.0185665	1.17451	0.0400313	1.28432	0.0120528	1.55033	0.00788048	1.69528	0.122298	1.0935
TNIP3	7.39E-05	0.0221607	5.32963	0.00242619	-1.7967	0.0487888	-3.08583	0.0110076	-9.57576	0.0687684	-16.4463	0.14262	-1.7175
CHEK1	7.45E-05	0.0267573	1.24904	0.0118796	-1.6733	0.476676	-1.07928	0.0013351	-2.09002	0.0472281	-1.34807	0.00877354	1.55038
SCD5	7.72E-05	0.0286848	1.49818	0.79484	-1.03116	0.0163297	-1.79293	0.0405694	-1.54487	0.0152224	-2.68613	0.0086013	-1.73875
GFPT2	7.91E-05	0.127771	1.42217	0.0825679	-2.50871	0.00251549	-15.1223	0.0133483	-3.56781	0.00776565	-21.5065	0.050043	-6.02793
LGMN	7.94E-05	0.0237674	-1.94034	0.0509171	1.18355	0.0149549	2.4704	0.00601602	2.29649	0.0146024	4.79342	0.0346647	2.08728
EMB	8.00E-05	0.0539265	1.14865	0.0287222	-1.32152	0.0391293	-1.39236	0.000963274	-1.51796	0.00664312	-1.59933	0.227713	-1.0536
SNORD109A	8.14E-05	0.0163118	-1.81824	0.181475	1.10307	0.0946372	1.1622	0.0108313	2.00565	0.0146253	2.11315	0.116852	1.0536
SNORD109A	8.14E-05	0.0163118	-1.81824	0.181475	1.10307	0.0946372	1.1622	0.0108313	2.00565	0.0146253	2.11315	0.116852	1.0536
IGSF9B	8.20E-05	0.00114372	2.44435	0.123321	-1.67205	0.000274191	2.79013	0.0181146	-4.08708	0.063643	1.14146	0.01391	4.66524
PTGER2	8.27E-05	0.0145536	3.57687	0.0727158	1.1741	0.025767	-1.75137	0.0104511	-3.04647	0.016503	-6.26442	0.0343028	-2.05629
PTPRJ	8.27E-05	0.0229142	2.38468	0.00282552	-1.28106	0.026266	-1.55175	0.0137746	-3.0549	0.014488	-3.70043	0.0856495	-1.21131
NETO2	8.29E-05	0.0013246	3.22444	0.024866	-2.41546	0.0267939	-3.86862	0.00307302	-7.78851	0.0109749	-12.4742	0.27653	-1.60161
SLC27A2	8.37E-05	0.000461133	3.36965	0.431135	-1.15132	0.328427	1.12724	0.0102803	-3.87953	0.0107161	-2.98928	0.194749	1.29781
OGDH	8.44E-05	0.0029491	1.91856	0.0435876	-1.23622	0.0770272	1.23561	0.000737731	-2.37176	0.0454561	-1.55272	0.0583224	1.52748
CALHM2	8.50E-05	0.0158978	1.95088	0.250143	-1.14265	0.0299925	-1.48338	0.0188927	-2.22917	0.0100603	-2.89389	0.0298653	-1.29819
UNKNOWN	8.62E-05	0.00380294	1.89049	0.0712011	-1.27741	0.288089	-1.07432	0.00860461	-2.41492	0.00416942	-2.03098	0.276215	1.18904
TACC3	8.80E-05	0.113941	-1.07927	0.133876	1.12505	0.0114155	1.72979	0.103972	1.21423	0.00790022	1.86691	0.00811402	1.53752
UEVLD	8.86E-05	0.0951844	1.18414	0.0722401	-1.15707	0.0660976	-1.80231	0.0734215	-1.37013	0.000178343	-2.13418	0.0345749	-1.55765
ACTN1	8.89E-05	0.0183989	-1.67706	0.0244635	2.27726	0.0125869	17.9448	0.0108189	3.81909	0.0104555	30.0944	0.0457959	7.87999
TNFRSF10D	9.15E-05	0.0111848	-1.71294	0.0314308	1.31773	0.0403421	1.83863	0.00628972	2.25719	0.0153685	3.14947	0.0606424	1.3953
NRCAM	9.20E-05	0.00183407	-8.8258	0.259817	1.92422	0.042739	2.54878	0.0140954	16.9828	0.00265062	22.495	0.384196	1.32458
SLFN12L	9.26E-05	0.0346639	1.60863	0.0983884	-1.46707	0.00235266	-2.75956	0.013792	-2.35997	0.0868414	-4.43911	0.0652627	-1.881
PI4K2A	9.31E-05	0.00589594	1.63088	0.494224	-1.03051	0.0509999	-1.43295	0.0153142	-1.68063	0.0342686	-2.33697	0.0816519	-1.39053
SYNE2	9.35E-05	0.0165643	2.29449	0.187954	-1.11332	0.0562972	-1.28381	0.0850866	-2.5545	0.0179987	-2.94569	0.147815	-1.15314
ARL4C	9.37E-05	0.0602651	1.14101	0.0176121	-1.2194	0.0171406	-1.35416	0.0224853	-1.39135	0.00456954	-1.54511	0.110739	-1.11051
FAS	9.50E-05	0.0038186	6.04861	0.0117875	-1.81016	0.1336	-2.04996	0.0048802	-10.949	0.0154631	-12.3994	0.675078	-1.13247
PPP1R15A	9.69E-05	0.0226527	1.86659	0.982461	1.0043	0.158939	1.14363	0.0127866	-1.8586	0.00586811	-1.63216	0.0836212	1.13874
CIDEB	9.84E-05	0.205782	-1.07661	0.504047	1.04957	0.00416751	-1.55189	0.15291	1.12997	0.00624058	-1.44146	0.0046368	-1.62881
ABCB8	9.88E-05	0.015961	-1.21225	0.103057	-1.0991	0.190042	1.05117	0.0119451	1.10295	2.48E-05	1.27428	0.0043990	1.15534
LGALS9C	9.89E-05	0.0186144	1.32141	0.0295465	-1.33722	0.0764863	1.19091	0.000865998	-1.76703	0.170408	-1.10959	0.0191575	1.59251
MMP28	0.000102192	0.0143906	-1.57057	0.0583646	1.26201	0.524174	1.03401	2.31E-05	1.98207	0.0212791	1.62399	0.113142	-1.2206
SYTL3	0.000105425	0.0578868	1.58764	0.0467381	-1.41077	0.0012057	-1.71087	0.00437217	-2.23979	0.0147821	-2.71625	0.133993	-1.21273
MATK	0.000106147	0.0241342	1.77404	0.409541	-1.19423	0.00163301	-2.46051	0.0365457	-2.1186	0.00205422	-4.36504	0.0344578	-2.06034
KIAA0247	0.000106393	0.0510436	1.20313	0.0179725	-1.14255	0.0294986	-1.32837	0.0169427	-1.37463	0.00633112	-1.5982	0.0489017	-1.16264
FOXO3B	0.000107762	2.37E-05	1.12719	0.341855	1.02477	0.0271159	-1.23211	0.0395866	-1.09995	0.0108612	-1.38883	0.0213308	-1.26263
ARL6IP1	0.000107931	0.0140687	1.21036	0.13048	-1.06526	0.0348162	-1.12368	0.000135923	-1.28934	0.0124066	-1.35993	0.272102	-1.05475
PCYOX1L	0.000109889	0.012692	-1.20216	0.123506	1.15063	0.000519449	1.46377	0.0498818	1.38324	0.0007467	1.75969	0.0584707	1.27215
BCL9	0.00011064	0.0356847	-2.22703	0.75678	1.04818	0.0486984	2.19311	0.012616	2.33433	0.00248249	4.88412	0.0233955	2.0923
GALM	0.000110677	0.00508033	1.7292	0.0507968	-1.87951	0.0323659	-2.43578	0.00504867	-3.25006	0.0152853	-4.21195	0.25433	-1.29596
PYHIN1	0.000110803	0.0171511	5.12875	0.108847	-1.32085	0.158548	-1.91206	0.0787467	-6.77429	0.00119598	-9.80649	0.25848	-1.4476
KIAA0748	0.000112396	0.0304212	-1.1488	0.733517	1.0488	0.0176314	2.67605	0.203334	1.20486	0.00918107	3.07426	0.0074924	2.55155
STXBP1	0.000113679	0.0427608	-1.19438	0.040517	1.42829	0.0171578	3.52361	0.021094	1.70592	0.00822834	4.20853	0.0429125	2.46701
UNKNOWN	0.000113772	0.00549549	1.60949	0.0811305	-1.28544	0.225122	-1.06435	0.0143309	-2.0689	0.0135381	-1.71305	0.0577026	1.20773
TMPO	0.000114597	0.0671152	-1.10563	0.150183	1.07398	0.0260752	1.30511	0.0261099	1.18742	0.00276858	1.44296	0.0206887	1.21521
NEK6	0.0001156	0.0011179	-1.52997	0.0337938	-1.77971	0.0474788	-1.33133	0.014221	-2.7229	0.012033	-2.03689	0.0633307	1.33679
ANAPC13	0.000116102	0.120966	-1.06369	0.0259844	1.06002	0.00392157	1.21714	0.0689376	1.12753	0.0106105	1.29466	0.0120858	1.14823
ETV6	0.000116326	0.00191191	1.84454	0.125118	-1.23921	0.15319	1.09873	0.00512845	-2.28577	0.0112588	-1.67879	0.112754	1.36156
SCARNA17	0.000116719	0.0491136	-1.15786	0.32671	1.08518	0.00109136	-1.50852	0.0404615	1.25649	0.0126492	-1.30285	0.0103464	-1.63701
UNKNOWN	0.000118702	0.0884504	-1.05458	1.79E-05	1.13406	0.0128308	1.25041	0.00865322	1.19594	0.022763	1.31866	0.0632959	1.1026
ZNF540	0.000120199	0.0173185	-1.51961	0.0640377	1.15882	0.106407	1.3421	0.00338655	1.76096	0.00464291	2.03947	0.153725	1.15816
MLXIP	0.000120391	0.00355274	-1.44963	0.000538963	1.45027	0.0384291	1.62734	0.000441921	2.10235	0.0191293	2.35905	0.388104	1.1221
SLC6A6	0.000120567	0.000780284	1.1857	0.0805415	-1.29033	0.00678554	-1.82689	0.0334587	-1.52995	0.0478215	-2.16615	0.0688227	-1.41583
COTL1	0.000121454	0.00129303	1.60261	0.0806095	-1.42394	0.973549	-1.00379	0.00181174	-2.28202	0.041092	-1.60868	0.0377144	1.41857
APOBEC3D	0.000121976	0.0449161	1.46258	0.0203168	-1.62884	0.00928018	-2.23181	0.0219252	-2.38231	0.018013	-3.2642	0.155134	-1.37018
SMAD3	0.000122338	0.0115202	3.55013	0.859496	1.02369	0.136581	-1.25861	0.0246107	-3.46797	0.0123416	-4.46825	0.014585	-1.28844
ATXN1	0.000123261	0.0128552	2.294	0.0129812	-1.36031	0.0509	-1.50375	0.0125204	-3.12055	0.021027	-3.44961	0.343761	-1.10545
KLRB1	0.000123676	0.0339963	2.77399	0.0407932	-3.60879	0.0158797	-48.7918	0.0320763	-10.0107	0.0394754	-135.348	0.0608441	-13.5203
KLRF1	0.000125418	0.296583	1.1044	0.086264	-1.58087	0.00766072	-7.10683	0.0263505	-1.74591	0.0127119	-7.84877	0.0416145	-4.49553
GNAO1	0.000125875	0.253846	1.41453	0.0328928	-3.11803	0.00128688	-4.8507	0.00416293	-4.41056	0.0118253	-6.86148	0.193277	-1.55569
CDH1	0.000126091	0.079209	2.75838	0.0169505	-4.34523	0.134166	2.44033	0.00214294	-11.9858	0.371855	-1.13033	0.00539789	10.6038
PPP2R2B	0.000128819	0.0826817	1.25592	0.0441454	-2.02288	0.00759091	-5.98603	0.00789152	-2.54058	0.0117562	-7.51799	0.069409	-2.95916
EDAR	0.000127233	0.0082007	-2.20373	0.0674126	1.91592	0.0154425	2.20811	0.0116336	4.22218	0.00906716	4.86607	0.560819	1.1525
EML4	0.000127988	0.018549	1.53652	0.0604149	-1.16054	0.101847	-1.24761	0.0116336	-1.7832	0.00906559	-1.91698	0.244989	-1.07502
CD300A	0.000128459	0.0178617	1.58191	0.236105	-1.04733	0.0557444	-1.694	0.00463915	-1.65678	0.0059703	-2.67976	0.0445859	-1.61745
CMIP	0.00013031	0.0769908	1.47745	0.206157	-1.09228	0.0336688	-1.68756	0.0213	-1.61379	0.00184429	-2.49328	0.0133209	-1.54499
UBE2E2	0.000132428	0.0536838	-2.75872	0.0251461	2.85764	0.0187504	4.51899	0.009456	7.88343	0.00655902	12.4666	0.275269	1.58137
ARAP2	0.000132428	0.0314346	2.19878	0.127249	-1.27426	0.0212175	-1.57524	0.00438966	-2.80182	0.0155901	-3.4636	0.206277	-1.2362
CACHD1	0.000133141	0.016146	-3.08998	0.013294	1.25752	0.126557	1.36336	0.0112758	3.8857	0.0142332	4.21274	0.640205	1.08417
LAG3	0.000135761	0.0274733	2.15172	0.0508249	-1.0915	0.0258941	-1.45896	0.0277589	-2.34861	0.0101854	-3.13929	0.0393154	-1.33666
JAK3	0.000137181	0.0319666	-1.42261	0.257666	1.11072	0.0248253	1.23419	0.0130125	1.58012	0.00387389	1.86061	0.0227789	1.19017
FLJ16686	0.000137181	0.0185017	3.67103	0.0446678	-4.34908	0.00743623	-7.45856	0.00430776	-15.9656	0.0102081	-27.3806	0.389456	-1.71497
LOC129293	0.000138109	0.00310439	-1.66745	0.0293792	1.47186	0.0248137	2.76268	0.00730761	2.45426	0.0841668	4.60664	0.101618	1.877
ZNF563	0.000138365	0.0582653	-1.31166	0.129253	1.1793	0.0417364	1.72719	0.00595824	1.54685	0.00478332	2.26549	0.0173881	1.46458
CHN1	0.00014042	0.034072	3.42746	0.014245	-2.08638	0.377584	1.29173	0.00579221	-7.15099	0.00423164	-2.65339	0.00249971	2.69504
C17orf76	0.00014127	0.33511	1.02704	0.0118014	-1.25203	0.00686813	-1.44178	0.00870253	-1.28589	0.0185472	-1.48076	0.128245	-1.15155
SLAMF1	0.000142157	0.000732404	4.24662	0.766797	1.02942	0.616929	-1.13751	0.0055528	-4.12525	0.0203264	-4.83058	0.371547	-1.17098
KRT73	0.000142276	0.495482	-1.12752	0.0640508	3.25343	0.0173955	6.18711	0.0165664	3.66831	0.00256775	6.9761	0.0142035	1.90172
IFI6	0.000142545	0.0218338	-1.50081	0.265188	1.08171	0.00130105	-1.39664	0.00434882	1.82344	0.0368253	1.07458	0.0109319	-1.51076
ANKS1A	0.000144862	0.00895985	1.1145	0.0212436	-1.14302	0.0356736	-1.21456	0.00890924	-1.27389	0.0167333	-1.35363	0.159092	-1.06259
MAP3K1	0.000145633	0.00949677	2.5628	0.6463519	1.03908	0.0405162	2.0104	0.00364298	-2.46642	0.10229	-1.27477	0.0338737	1.93479
CLIC1	0.00014872	0.00333307	1.87803	0.195357	-1.42148	0.0225686	-2.04491	0.0221552	-2.66959	0.00300364	-3.84041	0.0665079	-1.43858
TNFRSF1B	0.000154436	0.020233	1.96224	0.0331211	-1.3886	0.0393683	-1.71477	0.00332439	-2.72476	0.0201941	-3.36479	0.213582	-1.23489
ZNF542	0.000154985	0.0457114	-1.56389	0.39343	1.10112	0.0157788	1.71632	0.031475	1.56652	0.00206442	2.68413	0.0093137	1.71439
MBNL3	0.000155776	0.7968	-1.01374	0.0535981	-1.06332	0.00522168	-1.3384	0.00730478	1.08831	0.0112802	-1.32109	0.0019607	-1.25949
SYNE1	0.000156441	0.201605	1.52096	0.0194238	-3.84787	0.011236	-6.18976	0.000860825	-5.85246	0.0164851	-9.41438	0.246643	-1.60862
C17orf48	0.00015793	0.0332872	-1.50435	0.134263	1.37629	0.00305636	2.19066	0.0474169	2.07043	0.0431586	3.29553	0.0379465	1.59171
SLC4A4	0.000159125	0.0318743	1.81279	0.238015	-1.28015	0.0889362	-4.22451	0.0245667	-2.32065	0.00960106	-7.65815	0.052274	-3.30001
SLAMF7	0.000159794	0.0103119	7.8903	0.122157	-1.66587	0.0520135	-3.28399	0.0106099	-13.1442	0.00680425	-25.9117	0.277429	-1.97134
DGKH	0.000161162	0.0186381	1.75355	0.0110689	-1.43376	0.156399	-1.26063	0.0345512	-2.51418	0.0241516	-2.21059	0.258752	1.13733
SELP	0.000161829	0.000727813	1.73097	0.403103	-1.16541	0.00757484	4.03855	0.0339872	-2.01729	0.0247537	2.33311	0.0230241	4.70657
TSHZ2	0.000162316	0.168897	1.41554	0.877598	-1.06727	0.0127453	9.00671	0.188064	-1.51076	0.00243344	6.36273	0.00383939	9.61255
PIK3AP1	0.000163918	0.005689	1.50323	0.217086	-1.42813	0.00931001	-4.40381	0.0597582	-2.14681	0.00364406	-6.61996	0.0459906	-3.08362
NUDCD3	0.00016425	0.12885	-1.11078	0.0196479	1.07248	0.00347078	1.27338	0.0657212	1.19129	0.0094324B	1.41444	0.00681829	1.18732
NCRNA00185	0.00016535	0.0675367	-1.55998	0.0388164	1.36409	0.0207254	1.57273	0.0108767	2.12795	0.0803826	2.45342	0.207921	1.15295
FTH1	0.000166298	0.00589882	1.98908	0.0250916	-1.15623	0.737006	-1.04594	0.0121032	-2.29984	0.0260958	-2.08046	0.39576	1.10545
ZNF658	0.000167098	0.0804943	-1.2158	0.75626	-1.04002	0.0467559	1.7039	0.10696	1.16902	0.0108089	2.0716	0.0185197	1.77208
ZNF658	0.000167098	0.0804943	-1.2158	0.75626	-1.04002	0.0467559	1.7039	0.10696	1.16902	0.0108089	2.0716	0.0185197	1.77208
ITPR3	0.000168099	0.0498991	1.32188	0.497692	-1.05391	0.00497873	-1.39212	0.0214746	-1.39314	0.00527489	-1.84022	0.0423981	-1.32092
KRT72	0.000168119	0.370173	-1.19011	0.0219252	2.19113	0.0328567	3.65507	0.00452275	2.60769	0.0369697	4.34995	0.066548	1.66812
CAD	0.000169358	0.680883	1.02061	0.0336016	1.21406	0.0211836	1.39034	0.0036754	1.18954	0.0054471B	1.36226	0.0192124	1.14519
GNLY	0.000170124	0.133864	1.92029	0.0312633	-2.30714	0.0093863	-15.0732	0.0672587	-4.43037	0.0178439	-28.9449	0.0089462	-6.53329
MINK1	0.000170512	0.0629877	1.25546	0.000330098	-1.28014	0.0421855	-1.22029	0.0155797	-1.60716	0.0114076	-1.53203	0.342155	1.04904
LPCAT4	0.000170743	0.0865101	1.23456	0.100666	-1.1	0.026928	-1.26171	0.0120109	-1.35802	0.00497013	-1.55765	0.0118094	-1.147
APOBEC3F	0.000170198	0.0343232	1.37017	0.477143	-1.07084	0.0184373	-1.77513	0.00250664	-1.46573	0.0118679	-2.43223	0.0143705	-1.6577
GAB3	0.000171636	0.289229	1.28554	0.0710104	-2.23625	0.0100403	-6.79718	0.0160234	-2.87478	0.0156294	-8.73804	0.033741	-3.03955
IL12RB1	0.000171831	0.106134	1.17085	0.0707387	-1.37897	0.0226994	-2.17079	0.0333504	-1.61456	0.0127399	-2.54166	0.00489258	-1.57422
SCARB2	0.000172461	0.0046301	-1.70364	0.941599	-1.00539	0.55526	-1.05806	0.00815832	1.6945	0.010028	1.61015	0.290666	-1.05238
UNKNOWN	0.000172908	0.00655603	1.71234	0.0820133	-1.50995	0.0874893	-1.10007	0.0100591	-2.58555	0.0012432	-1.8837	0.115505	1.37259
UNKNOWN	0.000172949	0.0145008	7.82849	0.0336586	-1.49894	0.470843	-1.31538	0.00352079	-11.7344	0.00714566	-10.2974	0.759548	-1.13955
RIN3	0.00017353	0.0278787	-1.18124	0.0109172	1.38033	0.0927375	1.22676	0.00450925	1.6305	0.0282788	1.4491	0.0728789	-1.12518
RUNX3	0.000174351	0.0141008	1.52894	0.526364	-1.03953	0.0183006	-1.14724	0.0083187	-1.58938	0.0146198	-1.75406	0.286071	-1.10361
LGALS1	0.000175981	0.0603649	1.39972	0.0636344	-1.38221	0.0276974	-1.9329	0.0259016	-1.93471	0.0273996	-2.70552	0.0631628	-1.39841
GCNT1	0.00017652	0.0147501	1.9906	0.0128768	-1.07464	0.118838	-1.41263	0.0109778	-2.13918	0.046138B	-2.81199	0.176602	-1.31452
OSBPL5	0.00017940B	0.00425357	-2.09942	0.543527	1.05539	0.028139	-2.05199	0.0147978	2.21571	0.875666	1.02311	0.0054562S	-2.16566
SETD2	0.000181367	0.0683449	1.07632	0.00788884	-1.14613	0.0273652	-1.14761	0.0102479	-1.23359	0.0270477	-1.23519	0.935755	-1.00129
S1PR5	0.000184571	0.0890655	1.13316	0.711667	-1.02291	0.0204438	-1.80624	0.067177	-1.37013	0.162441	-2.04676	0.0163528	-1.76579
GPRIN3	0.000184586	0.00580303	0.06225	0.202811	-1.13832	0.224458	-1.26223	0.00639582	-2.34749	0.0159104	-2.60303	0.428485	-1.10885
TMEM43	0.00018544	0.00514677	1.27954	0.11928	-1.14867	0.050347	-1.38466	0.0136084	-1.46977	0.0138644	-1.77173	0.0151238	-1.20545
RASGEF1A	0.000186591	0.0703026	1.28329	0.100166	-1.52339	0.0134255	-2.19079	0.0121121	-1.95495	0.0051544	-2.81142	0.0846649	-1.4381
UNKNOWN	0.00018868	0.282598	1.29783	0.708101	-1.03054	0.0132068	-2.89842	0.18418	-1.33746	0.0036906	-3.76165	0.0104347	-2.81253
CD99	0.000191912	0.0101497	1.95959	0.964345	-1.00414	0.0883332	-1.18097	0.0055012	-1.96771	0.168847	-2.31421	0.248979	-1.17609
LPGAT1	0.000192865	0.057912	1.42822	0.0314823	-1.25548	0.0159236	-1.66328	0.0088967	-1.7931	0.0201251	-2.37553	0.0582754	-1.32482
PARP8	0.000194368	0.143276	1.24551	0.263114	-1.11876	0.0293839	-1.70519	0.0108165	-1.39342	0.00157726	-2.12383	0.0181473	-1.52418
FASLG	0.000195484	0.429314	1.05158	0.045263	-2.30097	0.0168423	-5.92944	0.053057	-2.41965	0.020369B	-6.23528	0.0023631	-2.57694
APOBEC3C	0.000195882	0.0191153	1.50338	0.00774493	-1.26815	0.0296401	-1.98939	0.0121742	-1.90652	0.0202692	-2.99082	0.047087	-1.56873
TSEN2	0.00019634	0.200895	-1.14974	0.0773781	1.31149	0.00717311	1.51926	0.000790391	1.50787	0.00729916	1.74675	0.0989404	1.15842
REEP5	0.000196511	0.15843	1.131	0.0288801	-1.25577	0.00129375	-1.4073	0.016626	-1.42027	0.0188534	-1.59166	0.099306	-1.12067
GLUL	0.000197719	0.104252	1.48133	0.00351802	-2.12636	0.0630072	-1.92767	0.00876766	-3.14984	0.00116078	-2.85552	0.565709	1.10307
CAMK2N1	0.000200755	0.202094	1.10021	0.615174	1.02967	0.0195245	-1.49995	0.381003	-1.07993	0.0146325	-1.65026	0.011333	-1.52811
APOBEC3G	0.000201339	0.748311	-1.05892	0.0256601	-1.79605	0.0094894	-3.38529	0.044147	-1.69612	0.0682943	-3.19694	0.0105013	-1.88485
MEF2D	0.000202773	0.0547906	1.27143	0.0439317	-1.1685	0.0285288	-1.39695	0.00602361	-1.48566	0.0169559	-1.77611	0.0672286	-1.1955
PITPNM2	0.000205197	0.0144766	-1.3772	0.0565731	1.52133	0.00746167	1.76753	0.0236995	2.09518	0.0097077	2.43424	0.288166	1.16183
OSBPL7	0.000206326	0.256352	1.17732	0.192247	-1.16298	0.0158924	-1.8961	0.064702	-1.3692	0.00946996	-2.23231	0.0156358	-1.63037
ARRB1	0.000206485	0.0223949	-1.56541	0.0291945	1.73634	0.187952	1.23555	0.0132743	2.7181	0.0147895	1.93407	0.0390107	-1.40538
MICAL2	0.00020676	0.00527063	2.3108	0.068199	-2.29365	0.0181416	-3.84283	0.023454	-5.30018	0.012336	-8.88002	0.140799	-1.67542
DUSP10	0.000208399	0.0208958	3.10753	0.465729	-1.19387	0.00425221	-2.18633	0.0258938	-3.70999	0.00491971	-6.7941	0.115425	-1.8313
AXIN1	0.000209048	0.0414918	1.10962	0.0322737	-1.06814	0.0055366	-1.17368	0.0378882	-1.12914	0.0107138S	-1.30234	0.0103523	-1.28391
MAPK1	0.000209359	0.0861133	1.06639	0.124475	-1.06814	0.0536439	-1.2914	0.104768	-1.13905	0.0017195	-1.37713	0.0472383	-1.20929
CNOT6L	0.00020937	0.0512441	1.2361	0.0517761	-1.17343	0.0536439	-1.15485	0.0108124	-1.45048	0.0146972	-1.42751	0.121384	1.01609
NSUN5C	0.0002104Z	0.001442	-1.1193	0.0103189	1.25695	0.0289184	1.3752	0.00514927	1.4069	0.0138116	1.53926	0.318631	1.09408
SPPL2B	0.000211504	0.0394702	-1.39004	0.114943	1.22679	0.19467	1.15991	0.00784591	1.70628	0.000465527	1.61232	0.0247069	-1.05766
GIT2	0.000215044	0.013068	1.82422	0.0526577	-1.09482	0.44033	-1.0374	0.0194394	-1.55725	0.0173155	-1.47556	0.464274	-1.05536
TOX	0.000215058	0.0455931	1.78642	0.0463429	-3.34874	0.0421355	-5.03344	0.00882415	-5.98227	0.0177365	-8.99186	0.268384	-1.50308
HIP1	0.000215086	0.0156207	1.4966	0.0143129	-1.25073	0.0353102	-2.06284	0.00156683	-1.87184	0.0156475	-3.08725	0.0736134	-1.64931
FAM86B1	0.000215744	0.00698719	-1.4198	0.590147	1.02794	0.111274	1.16218	0.00468765	1.45946	0.00814181	1.65005	0.225694	1.13059
TP53INP1	0.000217618	0.0171618	1.84014	0.0352386	-1.76255	0.0448303	-2.47812	0.00788619	-3.24334	0.0200402	-4.56008	0.069409	-1.40558
RASGRP1	0.000217765	0.00692484	1.34493	0.00515077	-1.23954	0.0505017	-1.34003	0.00788619	-1.66709	0.0214035	-1.80225	0.449247	-1.08108
KLRD1	0.000219064	0.00430347	7.71349	0.122727	-1.53638	0.0511963	-6.41623	0.0143551	-11.8508	0.0172311	-49.4915	0.0733811	-4.17621

ZFAND1	0.000219292	0.0231679	-1.24167	0.268776	1.09472	0.0164322	1.29932	0.0302899	1.35928	0.00855467	1.61333	0.0278013	1.1869
RIC3	0.000220064	0.145382	-1.17443	0.388003	1.08004	0.0269613	2.37291	0.000110341	1.26842	0.0145819	2.78681	0.0235361	2.19707
MAP4	0.000220082	0.0147358	1.48967	0.0139032	-1.25304	0.0977109	-1.20627	0.011697	-1.86661	0.0302361	-1.79694	0.415072	1.03877
OLFM2	0.000220851	0.0253651	-1.76899	0.789233	-1.03761	0.0206436	1.47238	0.0124655	1.70488	0.00874539	2.60463	0.0391688	1.52775
OR4F21	0.000224329	0.00767114	1.43615	0.267816	1.07557	0.00794709	1.49461	0.0514137	-1.33524	0.507381	1.04071	0.00356429	1.3896
TDRD6	0.000225575	0.00213516	1.52139	0.0133761	1.51166	0.00925593	1.56741	0.929754	-1.00644	0.682628	1.03025	0.354363	1.03688
DCBLD1	0.000226222	0.0101759	1.96776	0.289785	-1.05735	0.0615913	-1.61371	0.0031025	-2.08061	0.0204186	-3.17539	0.0805522	-1.52618
RALGDS	0.000229321	0.00943087	1.29706	0.00567573	-1.20218	0.0380622	-1.57367	0.00575838	-1.55931	0.0205765	-2.04116	0.0731998	-1.30901
HEG1	0.000230811	0.101726	-1.03925	0.00426617	-1.22175	0.0220737	-2.25755	0.00747256	-1.17561	0.0194396	-2.1723	0.0377746	-1.8478
UNKNOWN	0.000232772	0.0311512	-1.11511	0.071347	1.08	0.407757	1.02033	0.00070028	1.20432	0.0191555	1.13779	0.064542	-1.05847
FCER1G	0.000233093	0.880899	-1.02503	0.0060208	2.60439	0.0228718	3.11916	0.0225581	2.66957	0.0156817	3.19722	0.248259	1.19765
BTG3	0.000233571	0.0762927	1.23261	0.00993174	-1.20075	0.0131925	-1.49325	0.0182573	-1.48006	0.024093	-1.8406	0.0374539	-1.2436
RGS2	0.000234591	0.022378	3.9777	0.366924	-1.22759	0.159616	-2.0389	0.00542704	-4.88297	0.00365624	-8.11014	0.100037	-1.6609
METAP2	0.00235	0.0314184	-1.27171	0.42578	-1.04477	0.151369	1.09635	0.00850223	1.21721	0.000233213	1.39423	0.00760493	1.14543
GGT3P	0.000237864	0.177617	1.12487	0.00437438	-1.40074	0.0372827	-1.40077	0.00776604	-1.57565	0.0109893	-1.57568	0.999776	-1.00002
LBA1	0.000238922	0.0544299	1.36006	0.161228	-1.12122	0.00389376	-1.59278	0.0319229	-1.52492	0.0152205	-2.16629	0.0483309	-1.42059
NHSL2	0.000239093	0.0892481	1.21587	0.00278193	-1.4211	0.0191913	-3.57467	0.0177345	-1.72787	0.0259789	-4.34634	0.0319732	-2.51543
ZSCAN22	0.000239673	0.255105	1.12146	0.0296714	-1.27739	0.00196066	-1.45582	0.05423	-1.26432	0.0147404	-1.63264	0.00791766	-1.29132
ITPKB	0.000239084	0.12106	-1.04749	0.53431	1.05308	0.0178985	1.54502	0.206548	1.10309	0.00698595	1.61838	0.0623089	1.46714
TMEM41B	0.000240413	0.0174542	-1.593	0.0564811	1.19627	0.167216	1.16953	0.000911092	1.90565	0.0202741	1.86305	0.818552	-1.02287
MDN1	0.000241673	0.132324	1.09056	0.294375	1.08926	5.08E-05	1.69342	0.989872	-1.0012	0.00654412	1.5528	0.0202649	1.55466
TBKBP1	0.000242668	0.0293856	1.80721	0.501156	-1.09357	0.0241556	-1.9014	0.0160235	-1.97631	0.00719592	-3.43623	0.0995403	-1.73871
HNRPLL	0.000242837	0.0320315	1.37181	0.00627977	-2.91008	0.0311274	-3.13523	0.0431571	-3.99206	0.0299005	-4.30093	0.743576	-1.07737
UNKNOWN	0.000243042	0.0530035	-1.12052	0.0791007	1.07351	0.0168467	1.14666	0.0317992	1.20289	0.00138552	1.28486	0.139425	1.06814
TOP1MT	0.000244073	0.0373826	-1.24591	0.0635893	1.30771	0.0327802	1.6036	0.0233519	1.62929	0.0148642	1.99794	0.00840042	1.22626
CLCF1	0.000246866	0.00491813	1.7657	0.321312	-1.21508	0.0162762	-1.6778	0.0379304	-2.14546	0.0403981	-2.9625	0.062625	-1.38082
CDCA4	0.000246866	0.0392137	1.38048	0.0172784	-1.18228	0.0540986	-1.40298	0.019411	-1.63211	0.00750536	-1.93678	0.129121	-1.18667
FCGBP	0.000248274	0.10171	-1.25196	0.029132	2.41024	0.0124966	3.45584	0.0407738	3.01753	0.0188077	4.32659	0.0453866	1.43382
GGT3P	0.000248908	0.238645	1.09469	0.00568536	-1.39152	0.0354689	-1.39155	0.0149074	-1.52329	0.00126377	-1.52332	0.999776	-1.00002
NME1	0.000250818	0.0947238	-1.14437	0.131033	1.14857	0.0743885	1.40168	0.0772704	1.3144	0.0136802	1.60405	0.0658479	1.22037
ARHGEF18	0.000250961	0.12805	-1.09466	0.166281	1.18196	0.0299012	1.84041	0.146127	1.29384	0.00906876	2.01462	0.022056	1.55708
SYT11	0.000251172	0.010633	2.73661	0.0359266	-1.57767	0.101026	-1.57933	0.0167324	-4.31746	0.0257945	-4.32201	0.992214	-1.00105
TARBP1	0.000253759	0.112316	-1.30742	0.0376591	1.21162	0.0399031	1.65594	0.0211711	1.58409	0.00308703	2.165	0.0416924	1.36671
GATM	0.000254392	0.0444068	-1.60419	0.103538	1.43981	0.0785185	1.66718	0.00546567	2.30973	0.00492654	2.67448	0.0381517	1.15792
PRF1	0.000257336	0.0302019	1.23368	0.0447407	-1.79574	0.0153324	-6.6186	0.0282762	-2.21536	0.015156	-8.16521	0.0622015	-3.68573
RPP25	0.000258378	0.10696	-1.19596	0.228871	1.14012	0.0661106	1.55339	0.0174106	1.36353	0.0056764	1.85779	0.0584529	1.36248
UNKNOWN	0.000260177	0.0203375	1.25458	0.450187	-1.05915	0.00887356	1.58948	0.0692081	-1.32879	0.0681076	1.26694	0.00127073	1.6835
PELI1	0.000261168	0.0717668	1.44276	0.0698226	1.42619	0.00116701	2.3003	0.807712	-1.01162	0.0278541	1.59437	0.0294242	1.61289
DUSP2	0.000261594	0.00432637	1.76475	0.105221	-1.79914	0.0241188	-2.13124	0.0263598	-3.17504	0.00572672	-3.76111	0.203041	-1.18458
AKS	0.000261609	0.0143577	-4.69939	0.124661	1.8169	0.0834648	3.83549	0.0166457	8.53831	0.0148797	18.0244	0.112196	2.11101
ST8SIA6	0.000261962	0.470914	1.12935	0.0933289	-2.44753	0.0141034	-16.9712	0.114817	-2.76411	0.022599	-19.1663	0.00395659	-6.93401
GPR125	0.000264105	0.0172645	-2.0023	0.530861	1.10385	0.292232	1.20153	0.00710124	2.21025	0.00417349	2.40583	0.0254282	1.08849
GCNT4	0.000267608	0.347567	-1.15561	0.990765	-1.00243	0.0101718	4.41521	0.20347	1.15281	0.017741	5.10226	0.0266986	4.42593
PLEKHA5	0.000270402	0.304265	1.45764	0.0431515	-2.21279	0.0467823	-4.62696	0.0425536	-3.22545	0.0119763	-6.74443	0.0116667	-2.08101
C7orf44	0.000270454	0.0738889	-1.24286	0.0871923	1.12949	0.0529941	1.41087	0.0150796	1.4038	0.0035823	1.75352	0.0434761	1.24912
ABI3	0.000271914	0.773033	1.01435	0.0149776	-1.53461	0.0245948	-2.65677	0.027684	-1.55663	0.020015	-2.69488	0.0441737	-1.73123
UNKNOWN	0.000272757	0.490603	-1.03232	0.101239	-1.1777	0.0017798	-1.63173	0.214227	-1.14082	0.00221635	-1.58064	0.0439926	-1.38553
INPP5A	0.000273473	0.0186558	-1.39556	0.0373975	1.32448	0.106121	1.36685	0.00496353	1.84838	0.01187	1.90752	0.676044	-1.03199
NUMA1	0.000277342	0.0696498	-1.07559	0.0224224	1.12604	0.0311959	1.2149	0.0252211	1.21116	0.00900035	1.30574	0.13473	1.07891
LDLRAP1	0.000277825	0.11118	-1.20467	0.0193153	1.415	0.0179651	2.37171	0.0148662	1.7046	0.0257716	2.85712	0.0183807	1.67612
NCR1	0.000278584	0.253946	-1.0969	0.118913	-1.34596	0.0182527	-2.61973	0.088005	-1.22707	0.0103435	-2.38831	0.0316829	-1.94636
PPP1R16B	0.000279294	0.129842	1.16973	0.0137779	-2.03817	0.0210405	-2.49887	0.0263138	-2.3841	0.0294049	-2.92269	0.069058	-1.22604
CHD9	0.000279793	0.354395	1.07645	0.0166952	-1.25135	0.0153289	-1.5292	0.0432084	-1.34702	0.016285	-1.64612	0.0158635	-1.22205
PROS1	0.000280401	0.00789415	1.34318	0.0382011	1.26357	0.00662231	1.33461	0.187532	-1.063	0.846994	-1.00642	0.211927	1.05622
EIF1AX	0.000281148	0.00562772	-1.26519	0.0387269	1.06627	0.336722	1.05542	0.00763348	1.34904	0.00767382	1.33531	0.860297	-1.01029
ARHGAP18	0.000281989	0.012783	1.75225	0.152726	-1.31471	0.0205522	-2.52609	0.0047281	-2.30369	0.0143144	-4.42634	0.10009	-1.92141
TARP	0.000282097	0.515606	1.17291	0.590949	-1.07804	0.0152693	-3.64367	0.324498	-1.26444	0.0109062	-4.27368	0.0174563	-3.37991
C6orf186	0.000284926	0.0190976	-2.29245	0.188593	-1.25766	0.0956473	-1.29346	0.00387844	1.8228	0.0931642	1.77233	0.498195	-1.02847
BEND5	0.00028501	0.0315357	-1.36523	0.280312	1.24888	0.00210697	2.47085	0.0382186	1.70501	0.00631391	3.37328	0.0710444	1.97845
TSPAN32	0.000285917	0.0106285	-1.81322	0.0303872	1.50581	0.137128	1.37749	0.012815	2.73035	0.0241027	2.49769	0.363938	-1.09315
FAM153C	0.000287473	0.125067	-1.49591	0.180384	1.35104	0.0312759	2.20418	0.0350747	2.02103	0.0037061	3.29727	0.0443718	1.63147
GTPBP1	0.000289568	0.0299996	1.14716	0.0587097	-1.17451	0.0342161	-1.24974	0.035112	-1.34736	0.0129498	-1.43365	0.353228	-1.06405
ENPP2	0.000292493	0.0551156	-1.59999	0.0631318	1.45205	0.00720694	1.39241	0.00898807	2.32326	0.0140662	2.22784	0.71614	-1.04283
KCTD12	0.00029434	0.00771714	-1.57605	0.0512504	1.14083	0.0473797	2.28879	0.00130735	1.79801	0.0169101	3.60725	0.0488053	2.00624
MBOAT1	0.000297813	0.00936784	1.83845	0.0288504	-1.59938	0.0545976	-2.48837	0.00187957	-2.94037	0.0136203	-4.57474	0.173106	-1.55584
PTPN6	0.000299234	0.26123	-1.03909	0.0831646	1.2188	0.0227977	1.41425	0.0235193	1.26644	0.00668999	1.46954	0.044743	1.16037
LDHB	0.000302582	0.119173	-1.11997	0.436715	1.14003	0.0026919	2.06919	0.127475	1.2768	0.0290202	2.31744	0.0345872	1.81504
OCM	0.000303243	0.889032	1.01035	0.488958	1.17453	0.00979928	3.22412	0.433706	1.1625	0.0104886	3.19109	0.0107868	2.74503
KCNQ5	0.000304925	0.00172571	-3.05317	0.0619743	1.31551	0.147051	1.8071	0.0026647	4.01648	0.0147442	5.51738	0.325587	1.37368
IL9R	0.000306473	0.000425002	1.27573	0.0086405	-2.7395	0.0847807	-1.63759	0.0534571	-3.49486	0.0431312	-2.08912	0.113002	1.67289
IL9R	0.000306473	0.000425002	1.27573	0.0086405	-2.7395	0.0847807	-1.63759	0.0534571	-3.49486	0.0431312	-2.08912	0.113002	1.67289
SLC7A8	0.000308021	0.0134083	-3.38121	0.0213103	1.72541	0.472553	1.18727	0.0131846	5.83397	0.0582696	4.0144	0.305484	-1.45326
UBASH3B	0.000308744	0.0683512	-1.16409	0.174246	1.14205	0.0088522	1.56532	0.012036	1.32945	0.0156464	1.82217	0.0653585	1.37062
RAB11B	0.000309619	0.0170679	1.34402	0.273359	1.06496	0.0089867	1.11943	0.0273938	-1.26203	0.0232619	-1.20062	0.256014	1.05115
SMAP2	0.000309751	0.823556	1.02417	0.193042	1.11956	0.0777268	1.54449	0.115652	1.12498	0.0128935	1.51197	0.0403904	1.37955
PNPLA6	0.000311079	0.0247224	1.12102	0.016632	-1.12774	0.0244571	-1.21147	0.00164773	-1.26423	0.02443	-1.35808	0.255814	-1.07424
HES1	0.000311571	0.191232	-1.11017	0.0145367	1.26139	0.340688	1.03072	0.00915334	1.40035	0.0626088	1.14427	0.0039195	-1.2238
F2R	0.000315004	0.00489907	4.54255	0.353924	-1.39095	0.0147183	-2.17584	0.0596073	-6.31848	0.00350518	-9.88387	0.238577	-1.56428
UNKNOWN	0.000316037	0.031495	-1.26605	0.808812	-1.00561	0.079966	-1.03285	0.00939554	1.25899	0.0283119	1.22579	0.18005	-1.02709
SETD8	0.000317358	0.0105899	1.3259	0.163475	-1.06116	0.0513652	-1.27027	0.0264877	-1.40699	0.00454984	-1.68426	0.153782	-1.19706
MAP1LC3B2	0.000322822	0.453848	1.0408	0.0388165	-1.1369	0.0142837	-1.35635	0.0378788	-1.18329	0.0220519	-1.4117	0.0115325	-1.19303
CYP2JI2	0.000323456	0.00215069	2.36721	0.68546	1.07188	0.189417	1.32641	0.0134624	2.53736	0.017243	3.1399	0.205075	1.23746
LIMK1	0.000323483	0.0745953	1.41077	0.851224	-1.02373	0.0436056	-1.52128	0.0848302	-1.44425	0.000142858	-2.14618	0.0890402	-1.48602
UNKNOWN	0.000325261	0.000330094	1.30821	0.00647791	1.20245	0.426768	1.04017	0.0405254	-1.08795	0.0358958	-1.25769	0.0517021	-1.15601
TMEM120B	0.000325358	0.0217427	-1.1259	0.280189	-1.05297	0.0528494	1.3431	0.084086	1.06926	0.0171932	1.5122	0.0103147	1.41425
DLG5	0.000326702	0.813656	1.02593	0.131117	-1.19839	0.0129645	-3.1692	0.15443	-1.22947	0.0176436	-3.25139	0.0396819	-2.64455
NAT13	0.000327432	0.0372563	1.2115	0.108359	-1.36009	0.0380923	-2.05918	0.0406645	-1.64775	0.0078579	-2.49469	0.10314	-1.514
RP6-213H19.1	0.000328333	0.340547	-1.07108	0.0258706	1.32504	0.0451678	1.23914	0.000821507	1.41922	0.0151023	1.32722	0.136798	-1.06932
MAL	0.000328505	0.10662	-1.40875	0.0216165	1.63099	0.0195328	6.26087	0.00851417	2.29765	0.022314	8.81999	0.0541989	3.83871
ZNF418	0.000329224	0.0451107	1.39961	0.182705	1.05339	0.00070268	1.67011	0.0582575	-1.32866	0.167486	1.19327	0.0270233	1.58546
TIMM8A	0.000329393	0.0323971	-1.45564	0.439742	-1.01097	0.150572	1.14158	0.0259996	1.44004	0.0776426	1.66196	0.0924449	1.1541
PIK3CG	0.000332027	0.0311931	1.05919	0.142529	-1.10652	0.018615	-1.73624	0.0679118	-1.17201	0.012492	-1.839	0.0527732	-1.5691
BTNL8	0.000335164	0.00123681	1.1678	0.101882	-1.09486	0.395211	1.03081	0.0151	-1.27858	0.0394673	-1.1329	0.00851755	1.1286
FAM153B	0.000337334	0.193849	-1.27025	0.0392886	1.36197	0.0104088	2.45113	0.0919282	1.73005	0.00794942	3.11356	0.0573882	1.7997
TNFAIP3	0.000337696	0.0205717	2.38706	0.10178	-1.09845	0.0860856	-1.32048	0.0251914	-2.62206	0.0269662	-3.15207	0.0174827	-1.20214
C4orf34	0.000338579	0.036813	1.10508	0.499757	-1.03304	0.0474924	-1.31091	0.0236959	-1.14158	0.0123087	-1.44865	0.0102059	-1.26898
AGFG2	0.000339392	0.137127	1.05835	0.0237407	-1.22253	0.0430598	-1.11638	0.0170893	-1.29387	0.0384394	-1.18152	0.0144423	1.09509
IGSF9B	0.000339894	0.0059778	2.14643	0.0286649	-1.60958	0.0798602	2.02718	0.0063271	-3.45483	0.77962	-1.05882	0.0169204	3.2629
C1orf58	0.0003411	0.0541211	1.20101	0.0301835	-1.23113	0.0386898	-1.51119	0.0174346	-1.4786	0.0199459	-1.81495	0.100193	-1.22748
SORB53	0.000342206	0.123878	1.21249	0.487498	1.05921	0.0131881	2.1271	0.0307531	-1.14472	0.0314351	1.75432	0.0280939	2.0082
TSPAN18	0.000346161	0.00603435	2.4259	0.00225649	-1.95388	0.178245	1.606	0.00105193	-4.73992	0.165273	-1.51052	0.0395629	3.13794
LRP6	0.000347715	0.0244824	-2.36208	0.223774	1.23754	0.0112303	1.74594	0.0220148	2.92316	0.0146152	4.12405	0.196945	1.41082
SNORA5C	0.000348131	0.0245179	-1.41411	0.483081	1.32941	0.275977	1.09216	0.014476	1.87994	0.035525	5.44444	0.0079536	-1.21723
CNN3	0.000348728	0.0282258	-3.72489	0.114924	1.52673	0.0431262	1.97104	0.0155991	5.68689	0.0247773	7.3419	0.431702	1.29102
BZW2	0.00035266	0.517911	-1.04219	0.0504053	1.58478	0.0470697	2.06222	0.446668	1.65163	0.0146712	2.14922	0.187923	1.30127
PIK3R1	0.000353234	0.00626589	1.70051	0.0254635	-1.16076	0.318316	-1.17487	0.0105102	-1.97388	0.0185155	-1.99788	0.914655	-1.01216
OGFRL1	0.000353846	0.0114249	-1.16791	0.0650741	-1.13972	0.0162187	-1.77483	0.510101	1.02473	0.0413176	-1.51967	0.0288142	-1.55725
CRIM1	0.000360893	0.0135826	1.72361	0.0611767	-1.32346	0.0490247	-3.18563	0.0052751	-2.28114	0.0186987	-5.49088	0.0454657	-2.40705
SPATA2L	0.000361534	0.0320264	1.13165	0.0120088	1.06017	0.0348715	-1.12893	0.150788	-1.06742	0.0246168	-1.27755	0.0106019	-1.19686
C17orf66	0.000363548	0.0376484	3.78024	0.186116	-1.38676	0.11911	-2.32949	0.0122284	-5.24228	0.000938591	-8.80602	0.17538	-1.67981
TIPARP	0.000365632	0.0295737	1.66499	0.0415944	-1.11666	0.137043	-1.24355	0.0148815	-1.85923	0.0171911	-2.07051	0.255251	-1.11364
LOC100288322	0.000366648	0.293498	-1.09983	0.00605744	1.19379	0.0136962	1.36966	0.0447699	1.31297	0.00858247	1.50639	0.0319243	1.14732
NR4A3	0.000368029	0.113708	1.25927	0.00472647	-1.41621	0.027286	-2.01691	0.0281152	-1.78339	0.00798553	-2.53982	0.129834	-1.42416
RDX	0.000372244	0.0367305	1.46557	0.0532985	-1.33982	0.0141902	-1.75633	0.0350974	-1.96361	0.0085556	-2.57403	0.1843	-1.31086
KAT2A	0.000374862	0.0789016	-1.34286	0.0706569	1.33939	0.0284187	1.58319	0.000287158	1.79862	0.0215689	2.126	0.257367	1.18202
MCOLN3	0.00037518	0.0213802	2.91893	0.639809	1.02972	0.0295724	2.23117	0.0157788	2.2436	0.15554	-1.73779	0.0392382	1.26677
IFI16	0.000378062	0.0447187	1.55262	0.106723	-1.06326	0.230472	-1.19684	0.0126538	-1.65084	0.0156721	-1.85824	0.297146	-1.12563
BZRAP1	0.000378158	0.324584	-1.06654	0.0440211	-1.09335	0.00195077	-1.38196	0.52614	-1.02514	0.0371516	-1.29574	0.0643789	-1.26396
SLA2	0.000379673	0.72183	1.03064	0.038053	-1.26861	0.0314722	-2.21594	0.0105719	-1.30748	0.0158349	-2.28384	0.0358996	-1.74675
CHML	0.000380866	0.0624947	-1.58437	0.16507	1.33885	0.160303	1.31007	0.000570928	2.12123	0.00271969	2.07564	0.062168	-1.02197
LBH	0.000380969	0.0265398	-1.46835	0.130392	1.15867	0.521374	-1.06226	0.00344185	1.70133	0.0248722	1.3823	0.0131926	-1.2308
ICAM1	0.000381731	0.729341	1.03082	0.152121	-1.26657	0.0196546	-1.58986	0.050148	-1.30561	0.0183804	-1.63887	0.0640469	-1.25525
UXS1	0.00038564	0.101393	-1.2119	0.0238596	1.19107	0.0323217	1.56648	0.0211581	1.44346	0.00836776	1.89841	0.0940884	1.31518
VWCE	0.000387875	0.00523341	-1.13042	0.0176651	-1.20524	0.00482704	-1.25219	0.198819	-1.06618	0.0300472	-1.10772	0.361521	-1.03896
CXCR6	0.0003880S	0.228078	1.25117	0.0592088	-2.04151	0.0328081	-10.149	0.0377483	-2.55429	0.0201882	-12.6982	0.1262124	-4.9713
FRMD4B	0.000388435	0.0288808	-1.12199	0.113129	1.06201	0.0182245	1.0505	0.0783123	1.09365	0.015521	1.17865	0.0630158	1.07772
FKBP11	0.0003887	0.325273	1.12428	0.493814	-1.097	0.0200093	-1.70477	0.0134193	-1.23334	0.000271361	-1.91664	0.0621422	-1.55403
MYH9	0.00038961	0.564322	-1.01136	0.137959	-1.12096	0.0248531	-1.38588	0.0845773	-1.10837	0.0160005	-1.37031	0.00705147	-1.23633
PTPN22	0.000390641	0.210207	1.22621	0.157951	-1.36374	0.0294579	-2.19815	0.0040798	-4.67704	0.0531929	-2.5997	0.0033705	-6.75438
ADRBL2	0.000391776	0.0747954	1.40537	0.114846	-1.84983	0.0052897	-4.67704	0.0531929	-2.5997	0.0033705	-5.57298	0.11954	-2.52836
FCHO1	0.00039182	0.0098795	-1.13628	0.475791	-1.03598	0.0424773	1.15332	0.0395627	1.17716	0.00790154	1.31049	0.00958702	1.11326
ZFYVE28	0.000392619	0.638003	-1.08678	0.0770308	-1.48771	0.0252875	-2.66652	0.0246214	-1.36892	0.00128137	-2.4536	0.016929	-1.79237
ANXA2	0.000393846	0.0391703	3.68734	0.0645051	-1.74551	0.0447965	-1.95644	0.0267121	-6.40138	0.0204153	-7.17492	0.535334	-1.12084
ERCC1	0.000393932	0.0139669	-1.25126	0.429107	1.02735	0.00216004	-1.14137	0.0150146	1.21795	0.0994188	1.06628	0.0649497	-1.11099
KIF3B	0.000395314	0.879496	1.01108	0.0740898	-1.26276	0.0911204	-1.43372	0.0121395	-1.27675	0.00648118	-1.44961	0.0668545	-1.13539
RASA4	0.000398062	0.144774	-1.10125	0.117047	1.13145	0.0403827	1.691	0.0129659	1.24601	0.0170968	1.86222	0.023924	1.49455
LASS6	0.000405225	0.00116172	-1.6725	0.164558	1.82705	0.020752	4.6087	0.0378724	3.05574	0.011228	7.70805	0.0843697	2.52248
FHOD1	0.000405961	0.029156	1.31533	0.164558	-1.16104	0.0203959	-3.38025	0.0350583	-1.52715	0.0073606	-1.82733	0.167129	-1.19656
PPARGC1B	0.000405965	0.623828	1.02281	0.0716177	1.27533	0.0143956	1.66542	0.0209717	1.2469	0.0124324	1.62829	0.0801366	1.30587
CXCR7	0.000406118	0.00477239	-1.37632	0.0810033	1.48955	0.0307559	1.44959	0.0186795	2.0501	0.00630592	1.9951	0.810488	-1.02757
KLRG1	0.00041087	0.0142873	2.50774	0.161683	-1.9149	0.0147655	-6.4314	0.050152	-4.80207	0.0144923	-16.1283	0.0418587	-3.35861
MYO6	0.000411268	0.102911	1.45378	0.00636251	-1.62583	0.0227769	-2.76857	0.022162	-2.3636	0.0287395	-4.0249	0.0168786	-1.72897
RBM26	0.000411963	0.00769736	-1.30041	0.139485	1.14092	0.021129	1.35421	0.0134248	1.48367	0.0106737	1.76103	0.15804	1.18694
UBASH3A	0.000413718	0.109498	-1.12195	0.0468036	1.32853	0.0567808	1.46714	0.0582244	1.49054	0.0168249	1.64605	0.391	1.10433
HLA-DQB2	0.000413821	0.0178165	1.06208	0.00660072	-1.51096	0.0353426	1.15797	0.0262413	-1.60477	0.0266306	-1.74265	0.473657	-1.08592
NDUFS2	0.000418361	0.102443	-1.03428	0.0172491	1.14562	0.0208366	1.5597	0.0282421	1.1849	0.0317213	1.19767	0.630508	1.01078
EIF2B4	0.000418871	0.0132386	-1.11981	0.21526	1.02886	1.130781	1.08065	0.0749811	1.15213	0.196146	1.01012	0.101844	1.05033
CAMSAP1L1	0.000420661	0.0503477	-2.74164	0.142829	-1.64365	0.125904	1.53668	0.0667992	1.66802	0.00865233	4.21304	0.030454	2.52578
YWHAQ	0.000420712	0.151009	1.14785	0.0823251	-1.14918	0.0501326	-1.35441	0.0086152	-1.31908	0.00154763	-1.55466	0.0601775	-1.17859
AGAP2	0.000423064	0.330064	-1.03146	0.887603	1.00647	0.0422332	-1.25373	0.0701508	1.10322	0.0037	-1.29648	0.0119713	-1.05749
C6orf80	0.000423616	0.132109	1.24824	0.0302356	-1.92184	0.0095011	-1.93987	0.0099848	-2.39891	0.0097415	-2.42142	0.941482	-1.00938
LOC100132178	0.000424887	0.00275113	-1.12173	0.0627484	-1.04547	0.0978613	-1.05834	0.00922259	1.07294	0.0491859	1.05989	0.270347	-1.01232
IQGAP1	0.000426427	0.00425217	1.39317	0.0173026	-1.18137	0.0852102	-1.42972	0.00171654	-1.64585	0.020316	-1.99184	0.16662	-1.21022
METRNL	0.00042848	0.0315461	2.93453	0.576408	-1.10963	0.750361	-1.06907	0.0169404	-3.25623	0.0119388	-3.17251	0.70267	1.03794
SFXN3	0.00042848	0.020638	1.38992	0.109652	-1.18001	0.255327	-1.02781	0.01043	-1.45417	0.013419	-1.42857	0.193656	1.14808
FLJ41327	0.000428554	0.863534	-1.01822	0.383375	-1.08187	0.0807337	1.82149	0.65368	-1.06251	0.0483699	1.85468	0.0312143	1.91006
PIGV	0.000432577	0.226959	1.06508	0.00516527	1.28557	0.0409595	1.15399	0.0277438	1.20701	0.0840152	1.08347	0.0163861	-1.11403
C6orf192	0.000436927	0.00868813	-1.38615	0.604546	-1.04532	0.0348565	1.31209	0.0698378	1.32605	0.0137453	1.81875	0.0624584	1.37155
OR4F16	0.000437276	0.00969042	1.4279	0.53866	1.03863	0.027609	1.46516	0.0311795	-1.37479	0.713756	1.02609	0.0028943	1.41067
OR4F16	0.000437276	0.00969042	1.4279	0.53866	1.03863	0.027609	1.46516	0.0311795	-1.37479	0.713756	1.02609	0.0028943	1.41067
OR4F16	0.000437276	0.00969042	1.4279	0.53866	1.03863	0.027609	1.46516	0.0311795	-1.37479	0.713756	1.02609	0.0028943	1.41067

AP1M1	0.000437356	0.0639556	-1.36562	0.0739273	1.27519	0.0649391	1.52313	0.00822634	1.74142	0.0152596	2.08002	0.0686438	1.19444
CCR4	0.000437765	0.0113644	2.05957	0.0011714	-16.1374	0.202573	-2.67881	0.000864425	-33.236	0.0698114	-5.51719	0.0900197	6.02408
C16orf57	0.000437915	0.967848	-1.00098	0.0313146	-1.2093	0.0303817	-1.27096	0.0197266	-1.20812	0.026077	-1.26973	0.0607251	-1.051
KDM6B	0.00043798	0.807113	-1.00232	0.0413271	1.19386	0.0322871	1.2607	0.0273192	1.19662	0.022121	1.26362	0.0127013	1.05599
MCOLN2	0.000439136	0.00479449	5.00442	0.0218347	-1.54822	0.359022	-1.39786	0.00649586	-7.74794	0.0388763	-6.99547	0.717618	1.10757
MARCKSL1	0.000439994	0.0461678	-1.10414	0.0203409	1.13802	0.292942	1.04671	0.00937284	1.25653	0.0049467	1.15572	0.11112	-1.08723
TGFBI	0.00044024	0.500172	1.04934	0.0278614	-1.45794	0.0166495	-2.32591	0.0695016	-1.52987	0.0329887	-2.44066	0.107819	-1.59534
FAM86B1	0.000441456	0.0488036	-1.24914	0.118335	1.02531	0.0508176	1.2562	0.0330718	1.28076	0.00935423	1.56917	0.069429	1.22519
C2orf67	0.000442015	0.00625527	-2.17733	0.625733	1.08461	0.293231	1.10665	0.0103956	2.36154	0.0681867	2.40953	0.909918	1.02032
PBX3	0.00044219	0.0245044	-1.49014	0.290344	1.02391	0.0763492	1.13391	0.0232141	1.52577	0.031834	1.88968	0.0786868	1.10743
ITGB7	0.000442324	0.0193871	-13705	0.0416833	1.12984	0.0314879	1.09505	0.0259069	1.28469	0.0223049	1.24513	0.357413	-1.03177
C12orf75	0.000443381	0.0745106	1.21953	0.0137337	-1.16292	0.038731	-2.41828	0.0126478	-1.41821	0.0163601	-2.94916	0.0470507	-2.0795
SNORA54	0.000443715	0.0867866	-1.33623	0.00639964	1.25093	0.0400296	1.36638	0.01985	1.67152	0.0155537	1.82579	0.260732	1.09229
PTGDR	0.000444132	0.0291546	1.58251	0.129484	-1.62677	0.0095846	-4.42195	0.0676344	-2.57438	0.0042787	-6.99778	0.0970549	-2.71823
ZNF101	0.000445362	0.0473636	-1.48761	0.558023	1.0518	0.0592574	1.24175	0.010004	1.56468	0.0113477	1.84724	0.241015	1.18059
CYP4F22	0.00044601	0.450122	-1.09959	0.114258	-1.3072	0.0310546	-2.93554	0.00710528	-1.18881	0.0180833	-2.66967	0.0220438	-2.24567
FANCD2	0.000446579	0.0813964	1.15802	0.106177	1.15149	0.0208718	1.60571	0.92159	-1.00567	0.00962213	1.3866	0.0200019	1.39446
RAPGEF6	0.000447049	0.0712992	-1.3064	0.100764	1.21474	0.0235267	1.32746	0.00532771	1.58694	0.0121424	1.7342	0.353908	1.09279
CD151	0.000447384	0.0570445	1.18701	0.196387	-1.12343	0.0140896	-1.75447	0.0505127	-1.33353	0.0209823	-2.08258	0.0679746	-1.56171
RBM11	0.000447528	0.000510298	-3.21077	0.246056	1.37006	0.039999	2.38066	0.0211581	4.39894	0.0603877	7.64375	0.272525	1.73763
KIAA1257	0.000451345	0.0294381	-1.25596	0.0383495	1.21873	0.0361752	1.407	0.0311226	1.53067	0.0638769	1.76714	0.240542	1.15449
LRRC7	0.000453338	0.0210477	-2.85924	0.035044	1.67357	0.0779373	1.54579	0.0121349	4.78512	0.0334881	4.41977	0.725524	-1.08266
YARS	0.000454637	0.00214378	2.09481	0.42092	1.05589	0.758219	1.04693	0.00696937	-1.98393	0.0189785	-2.00091	0.949039	-1.00856
GPR15	0.00045727	0.00217539	70.1816	0.223374	1.4343	0.0813783	7.33005	0.0106687	-48.9309	0.0322341	-9.5745	0.179772	5.11054
UNKNOWN	0.00045799	0.199411	1.0229	0.131298	-1.05746	0.0688115	-1.17697	0.0508035	-1.08167	0.0177089	-1.20392	0.0644261	-1.11302
FLJ43390	0.000458813	0.000312041	1.28459	0.00890726	1.32787	0.0507249	1.2122	0.0145502	1.03368	0.317478	-1.05972	0.183866	-1.09541
TBC1D2B	0.000463194	0.271235	1.10663	0.0728759	-1.3252	0.0085593	-2.07807	0.114332	-1.4665	0.0240244	-2.29964	0.00936033	-1.56812
ACTR5	0.000463197	0.0203732	-13753	0.0505932	1.06696	0.507872	-1.0279	0.00136711	1.2137	0.0234145	1.10666	0.0463492	-1.09672
RBM46	0.000466782	0.0453894	1.35688	0.311251	1.04718	0.0241073	1.55196	0.0462168	-1.29575	0.0684201	1.14377	0.0184137	1.48204
RORA	0.000467936	0.442044	1.13692	0.142527	-1.11863	0.0315248	-2.12025	0.126733	-1.27179	0.000503564	-2.41055	0.0242428	-1.8954
SEC14L2	0.000467982	0.0199187	-1.86845	0.0782089	1.48965	0.130736	1.29472	0.0157595	2.78334	0.0310216	2.41913	0.165076	-1.15056
TSEN54	0.00046987	0.0202408	1.34462	0.193683	-1.14135	0.0288539	-1.19062	0.012805	-1.53467	0.00957922	-1.60093	0.648198	-1.04317
CT45A5	0.000470718	0.00507164	1.31627	0.0823851	1.19433	0.00239251	1.4725	0.182198	-1.1021	0.0919471	1.11869	0.0618708	1.2329
AEBP1	0.000471223	0.0701711	-1.18363	0.00335462	1.6217	0.0385448	1.88901	0.0463682	1.91949	0.0337851	2.23589	0.299586	1.16483
PRKAR1B	0.000474326	0.0539305	-1.34666	0.106756	1.53396	0.0364761	1.80251	0.0238604	2.06572	0.00332312	2.42737	0.165213	1.17507
ZC3H12B	0.000474757	0.0278065	-1.76792	0.807399	1.01113	0.945368	-1.00645	0.182344	1.78761	0.0314289	1.75659	0.846394	-1.01766
ST6GALNAC2	0.000478689	0.00155001	5.0845	0.0233896	-1.63568	0.132357	-2.60026	0.004299	-8.31662	0.0157509	-13.221	0.412178	-1.58971
WSB2	0.000481168	0.00812129	1.30145	0.0272323	-1.36804	0.0603407	-1.5904	0.0112685	-1.78044	0.0214745	-2.06983	0.231719	-1.16254
CCDC102B	0.000482137	0.0266879	-1.62778	0.713671	1.04508	0.211195	1.2319	0.002404	1.70116	0.0052756	2.00526	0.0330209	1.17876
KPNA2	0.000482257	0.0454853	1.96252	0.297285	-1.23295	0.288191	-1.13626	0.00261624	-2.41969	0.00724917	-2.22993	0.311338	1.0851
KATNAL1	0.000482814	0.187585	1.28803	0.0595432	-2.36333	0.0274874	-3.63837	0.0186602	-3.04404	0.020899	-4.68632	0.0756671	-1.53951
SLC16A10	0.000484602	0.0577322	-2.69776	0.0570946	2.08896	0.0221397	4.68649	0.0119837	5.6355	0.0173187	12.643	0.174645	2.24346
PLEKHG1	0.000486726	0.00162663	1.35011	0.0279663	-1.70488	0.0253297	-2.97807	0.0127015	-2.30177	0.0145521	-4.02071	0.176988	-1.74679
NUCB2	0.000487497	0.0220164	-1.50737	0.0402664	1.69897	0.0788336	1.79649	0.0089567	2.56098	0.0126546	2.70797	0.728696	1.0574
EZR	0.000489776	0.0484848	1.61825	0.0630441	-1.24516	0.0995238	-1.21568	0.0067349	-2.01499	0.0335888	-1.96728	0.785285	1.02425
GALK1	0.000490806	0.258655	1.05499	0.0316866	-1.13023	0.0271013	-1.44886	0.0577221	-1.19238	0.0254485	-1.52852	0.0262992	-1.28191
XPO6	0.000491269	0.59951	-1.00754	0.0580085	1.15985	0.00268093	1.30779	0.0875002	1.16859	0.000252483	1.31765	0.143574	1.12756
SCARNA5	0.000494817	0.0186312	-1.22323	0.0189911	1.06746	0.0634248	-1.24597	0.0053674	1.30575	0.60565	-1.0186	0.0293392	-1.33003
MAN1C1	0.000494859	0.0492803	-1.50254	0.928738	1.01349	0.00276642	1.86353	0.0171481	1.52281	0.0128241	2.80003	0.0640617	1.83873
EOMES	0.000495542	0.00150508	2.93308	0.241966	-1.57202	0.0064771	-2.45894	0.0324695	-4.61087	0.000904876	-7.21227	0.319225	-1.56419
GNA13	0.000496504	0.0973444	1.10656	0.0352371	-1.06994	0.036368	-1.14274	0.0304342	-1.18396	0.0395205	-1.26451	0.145508	-1.06804
CPT1A	0.000497301	0.256085	-1.08594	0.147106	-1.22682	0.012341	-2.09749	0.413309	-1.12955	0.0264863	-1.93149	0.000515762	-1.70997
CCR3	0.000497471	0.332257	1.13681	0.122851	-1.40905	0.0813925	-1.82095	0.0087888	-1.60183	0.0045299	-2.07008	0.100496	-1.29232
ZSWIM1	0.000500867	0.331561	-1.12305	0.65809	1.03377	0.00967778	2.13907	0.110643	1.16097	0.028074	2.40228	0.0344268	2.0692
UNKNOWN	0.000501258	0.00903835	1.71635	0.625972	-1.04635	0.00441623	1.66437	0.042796	-1.79589	0.712818	-1.03123	0.0266328	1.74151
FOXP4	0.000502774	0.115429	1.40055	0.0242269	-1.22308	0.000312312	-1.60758	0.040799	-1.86743	0.0192002	-2.2515	0.0130647	-1.35028
C5orf13	0.000504396	0.0194105	-2.23877	0.124438	1.55317	0.0206312	2.531	0.0021528	3.47719	0.0192002	5.66633	0.246246	1.62957
PMAIP1	0.000505639	0.018887	1.8581	0.142312	-1.23933	0.0661267	-1.50157	0.00014	-2.3028	0.0164138	-2.79007	0.383916	-1.2116
FAM159B	0.000511495	0.264717	-1.08222	0.720056	-1.00461	0.00460242	-1.32625	0.208636	1.07726	0.041732	-1.22549	0.00404551	-1.32016
ATM	0.000513489	0.276083	-1.0951	0.0883084	1.14912	0.0319752	1.3737	0.0388903	1.25841	0.00342113	1.50434	0.0221452	1.19543
TMEM220	0.000517142	0.0629253	1.11197	0.52774	1.27472	0.126272	1.54176	0.0136092	3.14667	0.00523471	3.17554	0.81964	1.10917
OR11H1	0.000517606	0.0119641	1.72056	0.369345	1.08319	0.00784512	1.72458	0.0588618	-1.58842	0.937981	1.00234	0.0387281	1.59213
NUP35	0.000521556	0.0237776	-1.27167	0.859363	1.00776	0.0104361	1.22162	0.0826854	1.28153	0.0685093	1.55349	0.0624656	1.21221
NF1	0.000522413	0.0647327	1.18928	0.0124893	-1.31741	0.0249249	-1.76785	0.0576771	-1.56677	0.0257146	-2.10247	0.13784	-1.34191
TLN1	0.000524823	0.00675675	1.11217	0.142366	-1.10806	0.0193074	-1.29642	0.0337173	-1.23234	0.0140481	-1.44183	0.10922	-1.16999
ENTPD1	0.000528973	0.00890102	9.34916	0.252552	-1.69392	0.312745	1.88698	0.0081629	-15.8367	0.035838	-4.95456	0.028307	3.19639
BRE	0.000533661	0.0791128	1.18848	0.174476	-1.11117	0.0727339	-1.12934	0.00241121	-1.3206	0.00335478	-1.3422	0.519869	-1.01636
C3orf18	0.000534215	0.049306	-1.28336	0.158774	1.12464	0.26207	1.04596	0.0101859	1.44332	0.0134585	1.34235	0.105157	-1.07522
AK1	0.000536262	0.0142765	1.21213	0.149483	-1.22308	0.0332424	-1.53664	0.0411216	-1.48253	0.0167743	-1.8626	0.011879	-1.25637
GYG1	0.000538296	0.117737	1.22775	0.0580329	-1.63848	0.0260973	-3.7739	0.0159847	-2.01165	0.0275931	-4.63342	0.0569298	-2.3033
ALPK1	0.000542939	0.032003	-1.63813	0.228989	1.31484	0.073019	1.98918	0.0158133	2.15388	0.0114397	3.25854	0.0082434	1.51287
WDFY1	0.000546429	0.0461087	1.09399	0.0220467	-1.24261	0.0219673	-1.25568	0.00190927	-1.35941	0.0280205	-1.3737	0.889974	-1.01052
ZNF496	0.000547334	0.0883721	-1.37425	0.0134091	1.51936	0.0110727	1.52789	0.0375724	2.08797	0.0257973	2.09969	0.897743	1.00561
FLJ00049	0.000549128	0.0354059	1.21998	0.0639925	-1.0519	0.0445483	-2.04988	0.0130105	-1.2833	0.0173767	-2.50081	0.0472665	-1.94873
YPEL1	0.00055553	0.0695082	1.89975	0.0215944	-1.69428	0.0348141	-3.15733	0.0286234	-3.2187	0.0085851	-5.98813	0.16276	-1.86352
UNKNOWN	0.00057443	0.000414336	1.31644	0.45096	1.03893	0.00750787	1.09548	0.0340694	-1.26711	0.000236306	-1.20171	0.381951	1.05442
CAPN2	0.000564686	0.0897151	1.25252	0.0768447	-1.21681	0.0592623	-1.57567	0.0171611	-1.52407	0.0120135	-1.97356	0.0497683	-1.29492
TTC35C	0.000566883	0.0265933	1.41477	0.000889812	-1.31713	0.115795	-1.34546	0.0110305	-1.86344	0.00746175	-1.90352	0.874559	-1.02151
CHST12	0.000570504	0.0404778	1.16006	0.934424	-1.00845	0.0234306	-1.55303	0.218216	-1.16986	0.00476112	-1.80162	0.045234	-1.54003
MVD	0.000572565	0.0532717	1.51035	0.166338	-1.15524	0.0332314	-1.25848	0.0791556	-1.74481	0.0191582	-1.90075	0.404951	-1.08937
TMEM39A	0.000572612	0.369011	1.07442	0.0163998	-1.34569	0.0143044	-1.65698	0.0554848	-1.44583	0.00728742	-1.78029	0.171365	-2.33133
STX11	0.000573862	0.0221775	1.76515	0.360885	-1.14477	0.0110589	-1.34848	0.0152209	-1.72093	0.0105653	-2.38027	0.365884	-1.17795
ZAK	0.000579883	0.0427357	1.53141	0.216501	-1.18634	0.0509694	-1.55894	0.0644021	-1.81677	0.0097673	-2.38737	0.172399	-1.31407
FLJ13197	0.000581737	0.207355	-1.19675	0.0223282	1.42407	0.0217459	2.62338	0.0208046	1.70425	0.0341681	3.13953	0.0480429	1.84217
SP140	0.000586459	0.0019846	1.64008	0.352015	-1.1454	0.0921795	-1.2686	0.031679	-1.87856	0.0155737	-2.0806	0.157878	-1.10755
CCNE1	0.000589883	0.0497242	1.19044	0.215854	1.50368	0.0666673	3.39942	0.339731	1.28313	0.0037024	2.8556	0.0277398	2.26074
CSRP1	0.000591597	0.0383757	1.2316	0.200132	-1.09957	0.129209	-1.09679	0.0194194	-1.35423	0.0329378	-1.35081	0.931778	1.00254
MSC	0.000591911	0.220963	1.24107	0.185945	-2.16703	0.0192239	-3.4606	0.0148932	-2.68944	0.0205316	-4.29486	0.22996	-1.59694
ARHGEF11	0.000592519	0.112995	-1.21442	0.1391	1.28371	0.0356442	2.38627	0.0162032	1.55896	0.0127233	2.89794	0.0641679	1.55889
UNKNOWN	0.000592843	0.816073	1.02227	0.139586	-1.19767	0.022804	-2.57868	0.285419	-1.22434	0.0206867	-2.63611	0.0225527	-2.15309
MATN1	0.000593752	0.00428768	-1.36766	0.0640982	1.18559	0.340823	1.09053	0.0045369	1.62149	0.0359068	1.49148	0.325745	-1.08717
FLOT1	0.000595538	0.0288915	1.47488	0.519083	-1.06494	0.371656	1.08124	0.0201958	-1.57067	0.0404226	-1.36407	0.0101395	1.15146
FLOT1	0.000595538	0.0288915	1.47488	0.519083	-1.06494	0.371656	1.08124	0.0201958	-1.57067	0.0404226	-1.36407	0.0101395	1.15146
UNKNOWN	0.000596552	0.00352483	-1.28361	0.194978	1.14717	0.0118562	1.20028	0.0396568	1.47251	0.0265151	1.54069	0.513478	1.0463
PSIP1	0.00059716	0.0072092	-1.66428	0.321698	-1.12648	0.272721	1.1135	0.0632393	1.47742	0.0105428	1.85317	0.0373083	1.25433
OR11H1	0.000598414	0.00245075	1.67875	0.559138	1.07571	0.00717672	1.68322	0.0547893	-1.56061	0.96775	1.00266	0.0201554	1.56476
OR11H1	0.000598414	0.00245075	1.67875	0.559138	1.07571	0.00717672	1.68322	0.0547893	-1.56061	0.96775	1.00266	0.0201554	1.56476
MFSD10	0.000600472	0.026267	1.50706	0.557483	-1.07613	0.101058	-1.29383	0.000957339	-1.62179	0.0082701	-1.94988	0.11642	-1.2023
GPR183	0.00060077	0.00446348	5.17656	0.433618	-1.40557	0.595562	1.20572	0.0056087	-7.27604	0.026371	-4.29333	0.287464	1.69473
ANXA5	0.00060318	0.0487483	1.47546	0.154798	-1.62814	0.017857	-2.55025	0.0522839	-2.40225	0.0094268	-3.76278	0.0388849	-1.56636
FAM175A	0.000609935	0.0259439	-1.42372	0.57199	1.06499	0.0534995	1.56898	0.0554787	1.51626	0.00718288	2.23379	0.0419286	1.47323
FGD3	0.000612864	0.00896264	-1.20047	0.279461	1.08686	0.0729454	1.24375	0.0224963	1.30474	0.0150164	1.49309	0.0213443	1.14435
FAM160B1	0.000621878	0.0304377	1.28752	0.0165893	-1.57125	0.0535221	-1.86296	0.0199571	-2.02302	0.0295623	-2.39859	0.347706	-1.18565
NTNG2	0.000623315	0.0179063	1.57058	0.95078	-1.00922	0.0297243	-1.63427	0.0564193	-1.58507	0.0148973	-2.56675	0.0326971	-1.61933
HLA-DRA	0.000626368	0.0198138	1.91352	0.7350657	-3.67497	0.0632593	-4.90233	0.00935289	-7.03214	0.027859	-9.38071	0.318017	-1.33398
PDHX	0.000627722	0.0117041	-1.20522	0.021392	1.19444	0.248437	1.07747	0.011859	1.43957	0.0107074	1.29859	0.264358	-1.10856
SYTL2	0.000627785	0.571532	1.19733	0.739243	1.05275	0.0725533	-3.64016	0.443176	-1.13734	0.028762	-4.35846	0.011732	-3.83216
LOC100128288	0.000630475	0.0132701	-1.14081	0.0395903	1.28933	0.0858889	1.27553	0.0111941	1.47088	0.0262048	1.45514	0.773206	-1.01081
ATPGD1	0.000632928	0.0828689	-1.28648	0.0722991	1.19325	0.064811	-1.13294	0.0041903	1.53509	0.148801	1.13552	0.00934004	-1.35188
C4orf50	0.000633718	0.226257	1.1125	0.089308	-1.34468	0.00462676	-1.66499	0.0652042	-1.49596	0.0115722	-1.85231	0.0710691	-1.2382
STRADB	0.000634655	0.0252727	1.04674	0.0397544	1.20011	0.024359	1.60877	0.0922443	1.14653	0.030988	1.53694	0.0488897	1.34052
QPCTL	0.000635445	0.0205927	1.84973	0.675476	-1.0277	0.0393326	1.31933	0.0116896	-1.90097	0.106583	-1.40202	0.0265164	1.35587
GPA33	0.000641985	0.0934594	1.52643	0.215694	1.23328	0.0241558	3.39781	0.302884	-1.2377	0.0191037	2.22599	0.0152019	2.75511
ZNF506	0.000644174	0.0312158	-1.40363	0.135838	1.1937	0.0202581	1.47577	0.0261008	1.67552	0.0246493	2.07143	0.140171	1.2363
NMU	0.000644233	0.0127523	1.82812	0.133073	1.28198	0.0444668	1.6778	0.00813392	-1.42601	0.23242	-1.08959	0.0142535	1.30876
POTEG	0.000645497	0.0123396	1.52187	0.377119	-1.65988	0.0319634	1.30626	0.0521689	-1.32188	0.198609	-1.16506	0.0117807	1.33882
LMO7	0.000647079	0.0293286	-1.5267	0.225677	1.34762	0.0494167	2.28788	0.0613474	2.05741	0.0105863	3.49293	0.12792	1.69773
FADS3	0.000650291	0.0712811	1.77896	0.0451474	-1.67029	0.0310213	-1.82114	0.0358407	-2.97137	0.00214633	-3.23973	0.660151	-1.09031
EVC	0.000652258	0.059451	1.17288	0.0412092	-1.58253	0.00117307	-1.18154	0.0197713	-1.85613	0.0189002	-1.3858	0.10024	1.33939
TBC1D5	0.000653802	0.155118	1.19603	0.139129	-1.1665	0.0197612	-1.34169	0.0301597	-1.37184	0.00731319	-1.57787	0.0434133	-1.15019
HAVCR1	0.000653802	0.00757869	4.01234	0.0218798	2.5117	0.0953128	43783	0.128899	-1.59746	0.568265	1.20574	0.0920773	1.92811
SNRK	0.000654988	0.0279386	-1.20896	0.049274	1.29789	0.0989485	1.217	0.0131286	1.5691	0.0336525	1.47117	0.166973	-1.08646
TPST1	0.000655391	0.100588	-2.18429	0.0358283	2.32851	0.145724	2.14324	0.00470538	5.08614	0.00206249	4.68146	0.664129	-1.08644
RNF44	0.000658101	0.0296404	-1.08569	0.00878024	1.14073	0.103412	1.09494	0.000420201	1.23848	0.0381254	1.18877	0.384911	-1.04182
TTTY14	0.000659439	0.0908546	-1.20579	0.057193	1.25588	0.0163791	1.617	0.0525872	1.51432	0.0312399	1.94975	0.0197444	1.28754
FUCA2	0.000661078	0.0554954	1.41298	0.133867	-1.3095	0.0213634	-1.37267	0.0389203	-1.8503	0.0484724	-1.93955	0.644846	-1.04824
KCNQ1	0.000665395	0.13507	-1.26558	0.0398842	1.42777	0.0239656	2.08741	0.00295753	1.80695	0.0301181	2.64178	0.113688	1.46201
ANTXR2	0.000668614	0.187654	1.28496	0.188168	-1.31109	0.051597	-1.96055	0.00750156	-1.68469	0.00144343	-2.51923	0.0273915	-1.49536
UNC84A	0.000670341	0.0951481	1.17172	0.81979	1.0202	0.019636	-1.61775	0.0945536	-1.44538	0.0121819	1.38066	0.0237824	1.58572
KIAA0195	0.000670627	0.0887122	1.08313	0.038595	-1.03507	0.0230391	-1.14033	0.053222	-1.12111	0.0280561	-1.23512	0.0194479	-1.10169
PLCD1	0.000670613	0.228811	1.15518	0.105434	-1.2003	0.0371205	-1.55309	0.00537472	-1.38657	0.0151729	-1.7941	0.0434877	-1.23391
UNKNOWN	0.000672177	0.020369	1.34104	0.316203	-1.08109	0.0645017	-1.13885	0.025731	-1.44978	0.0152757	-1.52724	0.487177	-1.05343
THG1L	0.000673934	0.0426966	-1.34174	0.0165662	1.08733	0.0316278	1.23954	0.0360088	1.45892	0.0310031	1.7356	0.161997	1.18965
MPI	0.000675725	0.306354	-1.0984	0.130272	-1.17506	0.0109654	1.52671	0.0148889	1.29068	0.0230586	1.67693	0.0667666	1.29926
ZNF121	0.000675726	0.0510399	-1.12125	0.644354	1.01899	0.0418046	1.1338	0.0365436	1.14254	0.013201	1.27127	0.0115195	1.11267
FAM108A1	0.000677863	0.0571058	1.20225	0.498615	-1.01346	0.0606645	-1.24011	0.0540167	-1.21843	0.00157525	-1.49092	0.000167	-1.22364
GALNT3	0.000678461	0.0749899	1.25115	0.56637	-1.11177	0.0328758	-5.20491	0.23595	-1.4054	0.0350054	-6.51215	0.0494753	-4.68164
IL2RB	0.000678863	0.00672448	2.80796	0.150478	-1.24565	0.328279	-1.39929	0.0348626	-3.49773	0.0165061	-3.92916	0.652349	-1.12334
MMP19	0.000682867	0.0913408	-1.18518	0.0594405	1.33241	0.00393427	1.4914	0.0483323	1.57914	0.0188668	1.76757	0.208329	1.11932
SFXN4	0.000683862	0.0206376	-1.42437	0.0911007	1.24662	0.0852366	1.28427	0.0307716	1.77564	0.0234226	1.82927	0.418795	1.0302
IQGAP2	0.00068403	0.0260738	1.41271	0.0229826	-1.33234	0.0769449	-1.29588	0.0129801	-1.88222	0.0433239	-1.83071	0.727275	1.02814
GZMA	0.000686623	0.0285766	3.13224	0.0424644	-1.85988	0.0498932	-5.5604	0.029947	-5.82559	0.00345218	-17.4165	0.170594	-2.98996
TPP2	0.000687196	0.867767	1.01092	0.149445	1.10298	0.00771208	1.59196	0.248914	1.09106	0.0394428	1.57476	0.0197075	1.44333
CYorf15A	0.000689637	0.0919349	-1.32336	0.0589027	1.10752	0.0745266	1.23532	0.028094	1.46564	0.00530192	1.53478	0.094879	1.1154
FAM65B	0.000690306	0.634615	-1.05151	0.184937	1.18602	0.0325131	1.79502	0.0940528	1.24712	0.0045314	1.88749	0.0115253	1.51348
FAIM3	0.000693536	0.110877	-1.17985	0.0872671	1.31741	0.0583143	1.78914	0.0375482	1.55434	0.0151208	2.11091	0.0528142	1.35808
MAGI3	0.000693808	0.147581	1.24697	0.0981469	-2.98607	0.00273673	-8.00644	0.0427356	-3.72354	0.00709793	-9.98378	0.173715	-2.68126
GIPC3	0.000695314	0.601321	-1.05807	0.0215355	1.75881	0.0270911	2.51613	0.050873	1.86096	0.0624043	2.66225	0.179056	1.43058
OCRL	0.000696267	0.000932905	-2.06016	0.623403	1.08672	0.335076	1.18274	0.0236452	2.23881	0.0152507	2.43662	0.411635	1.08836
ZNF268	0.000698268	0.0822867	-1.2324	0.11071	1.28001	0.537511	1.03055	0.0214421	1.33101	0.0104826	1.72005	0.162713	-1.048
LPIN2	0.00070145	0.0148388	1.17019	0.26982	-1.08601	0.0314522	-1.4285	0.0768569	-1.27084	0.0149033	-1.67162	0.0499377	-1.31536
C2orf46	0.00071021	0.22149	1.12897	0.488652	1.09187	0.0355309	-3.31104	0.692249	-1.03398	0.0359049	-3.73809	0.0232739	-3.61524
STRADB	0.00071123	0.0101	1.05065	0.062321	1.21532	0.0170075	1.66737	0.119237	1.15673	0.0219014	1.58699	0.0765084	1.37196
ATP2B4	0.000715418	0.0406576	1.64383	0.0027594	-1.81882	0.0512537	-2.63426	0.00974868	-2.98982	0.032352	-4.33028	0.201298	-1.44834
LAS1L	0.000720664	0.129508	-1.18395	0.0347833	1.13626	0.0325123	1.22541	0.0224446	1.34528	0.0514644	1.45083	0.15336	1.07846
CD244	0.00072366	0.875646	-1.0277	0.109394	-1.24514	0.027727	-1.21158	0.0365351	-1.45054	0.044816	-3.05893	0.0180496	-3.26758
GPSM3	0.000723805	0.0733152	-1.07706	0.0779813	1.12392	0.0284745	1.24811	0.024694	1.21053	0.00674993	1.34429	0.194675	1.1105
SLCO3A1	0.000724219	0.00271737	1.68259	0.370251	-1.30839	0.400509	-1.15632	0.0227753	-2.20148	0.028378	-1.94561	0.446675	1.13151
PIK3R3	0.000729855	0.253422	1.22671	0.0628896	-1.38821	0.036301	-3.67104	0.0738368	-1.70293	0.0080449	-4.50331	0.0181819	-2.64444
OR11H1	0.000734319	0.00995794	1.72099	0.508969	1.07739	0.00337342	1.66501	0.0601811	-1.59727	0.694849	-1.01357	0.0213203	1.5454
BCL2L1	0.000737784	0.206885	1.16956	0.0198763	-1.10216	0.0116371	-1.61141	0.0766558	-1.28903	0.0311139	-1.88464	0.027491	-1.46205

Gene													
PPP2R5C	0.000738678	0.0591314	1.74155	0.00569264	-1.1919	0.000673042	-1.26555	0.0357263	-2.07576	0.0280228	-2.20402	0.0574855	-1.06179
UNKNOWN	0.000739496	0.0229876	1.56156	0.198417	-1.58827	0.00580939	-4.26118	0.0943058	-2.48018	0.00255969	-6.65407	0.106231	-2.6829
C12orf23	0.000740698	0.0107023	-1.51544	0.270591	1.13108	0.315728	1.04844	0.0115613	1.71409	0.0111101	1.58885	0.542035	-1.07883
DGKA	0.000746754	0.051991	-1.15786	0.591232	-1.0639	0.0232115	1.39471	0.314737	1.08832	0.0123087	1.61489	0.014388	1.48384
PLD1	0.000747926	0.366686	1.13298	0.253027	-1.25803	0.0350326	-10.2629	0.0303077	-1.42532	0.0262016	-11.6277	0.0440833	-8.15795
NRG2	0.000749291	0.0574051	1.18694	0.00231123	1.2187	0.370908	-1.02215	0.577301	1.02676	0.047146	-1.21324	0.0210036	-1.2457
TCEA3	0.000750085	0.132447	-1.2415	0.0485313	1.36801	0.0219086	3.48335	0.0209511	1.69838	0.0318894	4.32457	0.0661447	2.54629
CADM1	0.000753261	0.052074	1.37864	0.0202724	-2.84157	0.0289571	-5.23347	0.022449	-3.91751	0.0120537	-7.21507	0.287727	-1.84175
HS3ST3B1	0.000759076	0.104553	-1.16295	0.136369	1.16456	0.012835	1.64357	0.0726539	1.35433	0.00903952	1.91139	0.10256	1.41132
UNKNOWN	0.000759882	0.168497	-1.83333	0.0199748	2.1652	0.0648152	2.11626	0.0169067	3.96952	0.0126445	3.8798	0.838765	-1.02312
TOM1	0.000760245	0.0531688	1.21351	0.041217	-1.19028	0.215435	1.1321	0.000751846	-1.44441	0.022137	-1.0901	0.026518	1.32503
PAK1	0.000761302	0.00511423	-1.96047	0.134373	1.30534	0.999019	1.00025	0.00430618	2.55909	0.0378761	1.96095	0.0732972	-1.30502
UNKNOWN	0.000765193	0.0306585	-1.99901	0.544012	1.14954	0.130622	1.51364	0.0172956	2.29794	0.00715727	3.02578	0.00879112	1.31674
IL18RAP	0.000765589	0.0134805	1.83643	0.169506	-1.85136	0.0420116	-21.1386	0.045622	-3.39989	0.0306111	-38.8196	0.0277337	-11.4179
ATCAY	0.000769543	0.0063701	-1.21683	0.00648891	-1.33185	0.366099	-1.06167	0.0369703	-1.09453	0.110798	1.14615	0.0370168	1.25449
RAB6C	0.000769817	0.01157	1.11632	0.228175	-1.03413	0.117747	-1.10375	0.0112812	-1.15442	0.0230477	-1.23214	0.0674434	-1.06732
GPR153	0.000771613	0.115653	1.12537	0.557597	-1.03688	0.00204322	-1.23947	0.00313229	-1.16687	0.0146691	-1.39486	0.0646039	-1.19539
C5orf5	0.000771853	0.0129312	1.1617	0.156601	1.05746	0.0239774	1.30324	0.00713792	-1.09857	0.107054	1.12184	0.0384632	1.23242
WDR27	0.000776434	0.0381746	-1.22421	0.665738	1.00389	0.111903	-1.02356	0.0317974	1.22897	0.0338658	1.19603	0.150365	-1.02754
PPARD	0.000777616	0.0571415	-1.28655	0.108641	-1.05207	0.0314878	1.42793	0.107739	1.22287	0.0244504	1.8371	0.0373149	1.50229
VIPR1	0.000783391	0.0471522	-1.18851	0.0430397	1.34747	0.0269818	3.20509	0.0042975	1.60148	0.0292487	3.80929	0.0758342	2.3786
USH2A	0.000787702	0.0125808	1.35852	0.0797227	1.15982	0.0285286	1.21113	0.0604767	-1.17132	0.0894411	-1.1217	0.069873	1.04424
ZNF347	0.000789892	0.0243669	-2.01558	0.450274	-1.12049	0.374422	1.18266	0.00459017	1.79884	0.0143095	2.38375	0.0598965	1.33516
ULBP3	0.0009438	0.962257	1.00244	0.210791	-1.18317	0.00574013	-1.70471	0.225556	-1.18605	0.000558743	-1.70887	0.0513431	-1.4408
SASH3	0.000807309	0.641774	-1.02601	0.566135	-1.05032	0.0284806	-1.56142	0.517045	-1.0237	0.0224899	-1.52183	0.0158858	-1.48661
FRMD7	0.000812582	0.0897111	-1.08822	0.0309546	-1.12736	0.0846407	1.24037	0.284196	-1.02654	0.0154603	1.36219	0.0271488	1.39834
USP53	0.00081386	0.0446409	-1.45306	0.218398	1.23784	0.0402696	1.55948	0.0480315	1.79865	0.00740702	2.26601	0.260131	1.25984
ABL1	0.000814437	0.16865	1.10264	0.48625	-1.05172	0.0111589	-1.61152	0.0344437	-1.15967	0.0271034	-1.77693	0.0596578	-1.53226
GOLT1B	0.000814628	0.019715	-1.17415	0.0261273	-1.09831	0.220176	-1.04003	0.0847695	1.06905	0.0350026	1.12896	0.0152681	1.05604
WIPF1	0.000814752	0.0117705	1.19455	0.23225	-1.05455	0.0365596	-1.24212	0.00771729	-1.25972	0.0209501	-1.48377	0.157084	-1.17786
AGBL3	0.000820606	0.000760132	-1.97854	0.0290031	1.36908	0.133105	1.64239	0.00215203	2.70878	0.0390207	3.24954	0.435133	1.19963
ZBTB1	0.000823267	0.0344767	1.25961	0.939008	1.00426	0.630677	1.01449	0.00058345	-1.25426	0.00747202	-1.24162	0.711708	1.01019
RBM43	0.000825934	0.011389	-1.5121	0.879118	1.00711	0.688202	1.03506	0.0127986	1.52285	0.0389922	1.56512	0.590524	1.02775
HCN3	0.000829418	0.0678271	1.20889	0.104409	-1.17387	0.0989191	-1.18552	0.0164499	-1.41907	0.00027309	-1.43316	0.851694	-1.00993
MLLT4	0.000829432	0.0627169	1.32803	0.201878	-1.1895	0.0143674	-1.95604	0.0730893	-1.57968	0.0255399	-2.59767	0.0519082	-1.44443
C16orf45	0.000835071	0.0565525	1.55575	0.996177	1.00061	0.0247002	2.09759	0.0675854	-1.55479	0.0526339	1.34828	0.0630052	2.0963
APBA2	0.000837096	0.0170104	-1.55431	0.11898	1.42467	0.0239041	3.26437	0.0945143	2.21437	0.021907	5.07384	0.122349	2.29132
ACBD4	0.000841876	0.0370875	-1.23368	0.70104	1.01882	0.00449563	1.12866	0.031949	1.25689	0.0198315	1.39241	0.125309	1.10782
UNKNOWN	0.000851145	0.0117643	2.91816	0.662053	-1.09569	0.03357	-2.2674	0.0319968	-3.19739	0.00680524	-6.61665	0.146589	-2.06939
RPS3A	0.000851354	0.0892862	-1.19908	0.526035	1.03357	0.0424618	1.20865	0.0300389	1.23934	0.0169163	1.44928	0.086458	1.1694
ODZ1	0.000857811	0.0308597	1.28535	0.272389	-1.12978	0.027932	1.71172	0.074189	-1.45217	0.120528	1.33172	0.000809062	1.93388
MRPS33	0.000865265	0.070852	-1.53509	0.18476	1.21759	0.0755808	1.66865	0.0043937	1.86911	0.0188828	2.56153	0.0789716	1.37046
UTP20	0.000865926	0.0164448	-1.33355	0.703185	-1.02937	0.10588	1.24518	0.0144926	1.2955	0.013376	1.6605	0.0186587	1.28174
SPCS2	0.000867842	0.117832	1.08128	0.00554563	-1.14168	0.037835	-1.40535	0.00885263	-1.23448	0.0283024	-1.51958	0.0976721	-1.23095
HSF2	0.000869016	0.0747398	-1.36009	0.0337475	1.23578	0.0452544	1.40845	0.0210211	1.68077	0.033978	1.91562	0.120783	1.13973
NEK3	0.00087072	0.675759	-1.02538	0.0242042	-1.89769	0.0349709	-1.77068	0.0393732	-1.85072	0.0280815	-1.72685	0.503251	1.07173
C16orf74	0.000870769	0.155018	-1.23781	0.00864538	1.51285	0.0498852	1.91854	0.0163623	1.87262	0.0267633	2.37478	0.17099	1.26816
C3AR1	0.00087338	0.0711539	1.39661	0.673671	-1.11339	0.0441443	-3.83501	0.0751506	-1.55497	0.0210388	-5.356	0.024894	-3.44445
KIAA0040	0.000879772	0.0127152	-1.78563	0.0574311	-1.16264	0.0454414	-1.69525	0.0224168	1.53584	0.413812	1.0531	0.078729	-1.45811
KIAA1958	0.000880232	0.111782	-1.18777	0.191451	1.072	0.0253345	1.52732	0.0515196	1.2733	0.0360611	1.81411	0.0272052	1.42474
KIR2DL3	0.000880714	0.0344316	1.384	0.119448	-1.12227	0.0788495	-1.45443	0.0109757	-1.55322	0.0177867	-2.01293	0.162876	-1.29597
DMXL2	0.000882819	0.014993	-1.45828	0.115016	-1.15385	0.135787	1.32455	0.0360043	1.26384	0.113328	1.93156	0.056964	1.52833
VANGL1	0.000886043	0.345405	1.07365	0.0220727	-1.73905	0.0651417	-1.69176	0.137812	-1.86713	0.0390621	-1.81636	0.679587	1.02795
MED28	0.000888253	0.0197174	-1.15352	0.130925	1.14827	0.0816022	1.18157	0.0260367	1.32455	0.0150243	1.36296	0.11455	1.029
KLF6	0.000888276	0.0197142	2.16284	0.146202	-1.2549	0.13903	-1.47638	0.0332904	-2.71414	0.0115028	-3.19318	0.441978	-1.1765
LRP10	0.00088926	0.00887003	1.143	0.516166	-1.03328	0.0702507	-1.15724	0.050508	-1.18104	0.0146342	-1.32273	0.0121649	-1.11996
GALNT1	0.000889885	0.75602	1.02746	0.091516	1.2395	0.0898732	1.42769	0.00114503	1.20638	0.0105944	-1.46689	0.00643991	-1.76962
SLC22A17	0.000892619	0.116901	-1.57915	0.0358599	1.36991	0.0353926	2.66651	0.0657385	2.16328	0.0183057	4.21081	0.0533111	1.94649
ALOX5AP	0.000897794	0.20606	-1.2352	0.0088366	-3.16399	0.0271138	-4.20016	0.0474545	-2.56151	0.0207969	-3.40037	0.418584	-1.32749
KRTAP5-2	0.000901698	0.0992985	1.30763	0.12593	-1.42248	0.0356102	-1.60471	0.0319261	-1.86009	0.00578719	-2.09837	0.179637	-1.1281
C2orf24	0.000906395	0.0960684	1.13199	0.24212	-1.07219	0.0299143	-1.11117	7.23E-05	-1.2131	0.0101859	-1.25784	0.276611	-1.03636
CD99	0.000907171	0.0165087	1.74156	0.335832	-1.07472	0.108097	-1.26798	0.0176969	-1.8717	0.0369249	-2.20827	0.244654	-1.17982
UNKNOWN	0.000913949	0.00114806	2.27372	0.664192	1.046	0.043942	1.89092	0.0102888	-2.17373	0.37209	-1.20244	0.0628266	1.80776
TWISTNB	0.000915864	0.0016896	-1.31036	0.0143782	-1.12082	0.26994	1.09735	0.0235225	1.16911	0.0359175	1.43793	0.0499096	1.22993
LYRM5	0.000924454	0.0318289	-1.66566	0.28405	1.5513	0.0412099	1.49898	0.0156041	1.91739	0.0153886	2.49678	0.252263	1.30217
KLHL3	0.000926528	0.0206421	-1.46534	0.149006	1.57102	0.0477265	1.95823	0.0364244	2.30208	0.0132413	2.86947	0.039617	1.24647
OSBPL3	0.000926775	0.0211712	1.79924	0.0585216	-1.42369	0.132332	-1.3828	0.0248846	-2.56156	0.00237137	-2.48798	0.892603	1.02957
EEF2K	0.000926941	0.214055	-1.03493	0.0434838	1.33103	0.0114705	1.33999	0.0560952	1.37753	0.0143598	1.38679	0.905697	1.00673
UNKNOWN	0.00092875	0.842157	-1.01921	0.0584532	1.26978	0.0149654	1.64278	0.104644	1.2955	0.14282	1.67434	0.0360298	1.29375
C7orf10	0.00092996	0.0244945	-1.66617	0.0582746	1.43872	0.0497306	1.70058	0.0363442	2.39716	0.0215485	2.8345	0.504336	1.182
REL	0.000931836	0.0412599	1.44971	0.270209	-1.05442	0.0276925	-1.29986	0.032058	-1.5286	0.0353661	-1.88441	0.0804979	-1.23277
PKHD1	0.000932527	0.00214711	1.28563	0.30215	1.05905	0.166138	1.03302	0.0574446	-1.21394	0.00196983	-1.24453	0.612997	-1.0252
NR3C1	0.000934263	0.0771538	1.08872	0.043961	-1.49076	0.0465089	-1.39682	0.0161697	-1.62302	0.0262199	-1.52075	0.497628	1.06725
FTHP1	0.000934631	0.0305799	1.5784	0.045891	-1.30285	0.222371	-1.11512	0.0101503	-2.05642	0.0570662	-1.76011	0.22792	1.16835
CALD1	0.00093894	0.109175	1.12213	0.00256365	-1.5879	0.126414	1.29552	0.051369	-1.78183	0.419347	1.15452	0.0249539	2.05715
DUSP4	0.000943694	0.0672968	3.447	0.00140747	-2.73593	0.0716567	-4.01946	0.0269673	-9.43073	0.0136127	-13.855	0.455959	-1.46914
C6orf129	0.000945193	0.1708	1.25962	0.11501	-1.34259	0.0255032	-1.45066	0.0140629	-1.69114	0.0063104	-1.82727	0.342074	-1.0805
MT1F	0.000947087	0.0067629	1.37419	0.203436	1.19881	0.0214376	1.6574	0.118715	-1.1463	0.206032	1.20609	0.0243509	1.38254
MBP	0.00095152	0.0166252	1.3211	0.224179	-1.14437	0.0917836	-1.04386	0.0196225	-1.15183	0.0631762	-1.37905	0.287834	1.09629
ZNF135	0.00095198	0.0272928	-2.11507	0.270104	1.32864	0.0844529	1.5702	0.0356079	2.81016	0.0140868	3.32107	0.415786	1.18181
ST6GALNAC6	0.000956037	0.120895	1.17023	0.0227554	-1.16759	0.0139323	-1.35862	0.0653798	-1.36635	0.0240301	-1.58991	0.0734405	-1.16361
DLG3	0.000962433	0.0246884	1.11657	0.17277	-1.26685	0.0463019	-1.71456	0.0493997	-1.49054	0.0181093	-2.0173	0.000600612	-1.3534
CEP97	0.000963515	0.0111743	1.44257	0.51331	-1.05773	0.861156	1.01425	0.00577534	-1.52585	0.0204468	-1.42231	0.339018	1.0728
LRRC33	0.000968452	0.0117977	1.35657	0.0126935	-1.15246	0.929257	1.00831	0.00247163	-1.5634	0.0472907	-1.3454	0.154715	1.16203
SPTBN1	0.000969613	0.478987	1.06526	0.0323718	1.2645	0.0291898	2.09165	0.16597	1.18704	0.00958214	1.96352	0.0746309	1.65413
FUBP1	0.000971443	0.00311179	-1.31695	0.257822	-1.05949	0.135957	-1.06646	0.0501247	1.24301	0.0127981	1.23488	0.89322	-1.00658
GCET2	0.000975014	0.0036058	-1.19189	0.123666	1.1986	0.0316718	2.92785	0.0301242	1.4286	0.0262013	3.48067	0.0725257	2.44272
PPP3CA	0.000978897	0.0781967	1.22979	0.0138744	-1.12723	0.0586749	-1.185	0.0225797	-1.38626	0.0306773	-1.45731	0.287804	-1.05125
C1orf21	0.000984348	0.0239276	2.98828	0.0906745	-2.34604	0.0308901	-5.26517	0.0491261	-7.01063	0.0102631	-15.7338	0.23128	-2.24428
UNKNOWN	0.000984676	0.227105	1.04706	0.0731198	-1.09572	0.00170757	1.1786	0.121428	-1.14728	0.0576517	1.12563	0.0087031	1.29142
TBCD	0.000988153	0.0171678	1.5519	0.100909	-1.22319	0.173756	1.36882	0.0215127	-1.89827	0.0889054	-1.9714	0.155617	-1.03852
C6orf174	0.000989525	0.0643693	1.93288	0.0430016	-1.49688	0.220299	1.36892	0.011503	-2.89328	0.135745	-1.41197	0.050513	2.0491
SPATS2L	0.000991183	0.26145	1.16742	0.150608	-1.58259	0.0413277	-3.81182	0.0294893	-1.84754	0.0184046	-4.44998	0.052458	-2.4086
TLR3	0.000997282	0.0871	1.79185	0.146576	-1.39841	0.0279349	-3.75544	0.0225756	-2.50575	0.0310612	-6.72921	0.0879675	-2.68551
NMNAT3	0.00100429	0.0207256	-1.43261	0.01284	1.11078	0.15291	1.24608	0.162652	1.59132	0.114167	1.78515	0.402229	1.12181
EFHA2	0.0010047	0.13894	-1.78258	0.822886	0.06706	0.0362708	2.78694	0.0846608	1.90212	0.0371172	4.96794	0.0124686	2.61179
TMOD2	0.00100475	0.0056242	-1.79795	0.828868	-1.03291	0.0602265	-1.23438	0.0256578	1.74067	0.00194531	1.45656	0.148787	-1.19505
GNAI1	0.00100775	0.0570724	-1.97769	0.224082	1.41091	0.0233441	1.73246	0.0373971	2.79034	0.00686399	3.42627	0.286034	1.2279
LOC338799	0.00100793	0.111686	-1.21365	0.237768	1.06883	0.0154958	1.56266	0.0256952	1.29718	0.0366703	1.89652	0.0573065	1.46203
AARSD1	0.00100868	0.104662	-1.26776	0.187126	1.26862	0.0327793	1.3808	0.0660365	1.6083	0.00463479	1.75052	0.327774	1.08843
RAB27B	0.00102125	0.0750696	1.49817	0.0762185	-2.22421	0.00881874	-2.99166	0.053128	-3.33224	0.0203491	-4.48202	0.268415	-1.34505
CDCA7L	0.00102166	0.130145	-1.65995	0.244106	1.84378	0.0272027	5.18537	0.0261357	3.06059	0.013959	8.60746	0.0666746	2.81235
NCL6	0.00102331	0.0937518	-1.13763	0.181946	1.08593	0.0099494	1.28632	0.0421813	1.22639	0.0290597	1.46336	0.12146	1.18453
LTV1	0.00102712	0.0925042	-1.18781	0.0666021	1.32845	0.140235	1.21868	0.0140978	1.57794	0.0155833	1.44756	0.0857553	-1.09007
GALNT10	0.00102976	0.0988065	1.1232	0.0908845	1.27651	0.0417848	-1.66546	0.391697	1.1365	0.050958	-1.87064	0.0161641	-2.12597
UNKNOWN	0.00102998	0.371347	1.05435	0.00134444	1.29092	0.301327	1.059	0.0325095	1.22437	0.64444	1.0044	0.0255136	-1.219
ABHD6	0.00103205	0.122414	1.18996	0.232403	-1.0388	0.0618277	-1.34296	0.0458319	-1.23613	0.00746696	-1.59806	0.060296	-1.2928
SRGN	0.00103213	0.0248758	2.25243	0.123094	-1.51769	0.110011	-1.60339	0.0224224	-3.41849	0.00333064	-3.61151	0.626023	-1.05646
CHKA	0.00103371	0.200587	-1.22959	0.133024	1.40848	0.0415194	1.72206	0.026614	1.73185	0.00953064	2.11743	0.0991088	1.22264
GAGE4	0.00103549	0.00754084	1.80814	0.426302	1.06484	0.0303856	1.64598	0.0397132	-1.69805	0.564532	-1.09852	0.0045943	1.54575
DKFZp434F142	0.00103582	0.197928	1.08415	0.78759	-1.01255	0.0423599	1.01833	0.169697	1.05024	0.0254349	1.11659	0.0179496	-1.66688
RPL30	0.00103668	0.0626647	-1.0965	0.523297	1.01833	0.169697	1.05024	0.0254349	1.11659	0.0179496	1.5706	0.0278584	1.03625
GTDC1	0.00103942	0.04092	1.50131	0.570916	0.10368	0.147357	-1.26017	0.0290519	-1.89191	0.0230952	-4.02571	0.0946503	-2.12786
UNKNOWN	0.00104172	0.00495322	1.36123	0.570916	0.10368	0.147357	-1.25955	0.00519	-1.34286	0.0236034	-1.71454	0.0955359	-1.27678
HNRNPUL1	0.00104437	0.0139028	1.13194	0.0339402	-1.22216	0.0838809	-1.19031	0.018804	-1.38341	0.0189043	-1.34736	0.70685	1.02676
ATG4D	0.00105508	0.43115	1.04302	0.0584136	-1.08537	0.0537741	-1.40415	0.0377221	-1.19867	0.0290708	-1.46456	0.0550829	-1.29622
IRF1	0.00105551	0.0804721	1.23169	0.171815	-1.16301	0.0387973	-1.77748	0.00290708	-1.43246	0.0167956	-2.18931	0.0475641	-1.52835
JAZF1	0.00105883	0.325839	1.13274	0.00591736	-1.35885	0.0323861	-2.05431	0.0668689	-1.53923	0.0102284	-2.327	0.118112	-1.5118
LOC283398	0.00105973	0.0014669	-1.25255	0.29446	1.09719	0.00910343	1.20856	0.0370087	1.37429	0.0035602	1.51379	0.365871	1.10151
UNKNOWN	0.00108337	0.0376578	1.23348	0.26675	-1.02156	0.0114301	1.20978	0.0523471	-1.26008	0.70014	-1.0196	0.0110577	1.23586
CD68	0.00108651	0.0164411	1.57702	0.222783	-1.21259	0.0140882	-1.91227	0.00668586	-2.36237	0.312938	-1.23538	0.0035623	-3.97157
FAAH2	0.00109044	0.32603	1.05086	0.044069	-1.61393	0.0413655	2.19698	0.0506885	-1.69602	0.0334178	2.09064	0.0402733	3.54577
HLA-DRA	0.00109493	0.0171136	1.78779	0.0563091	-3.63644	0.0601762	-5.27029	0.0174742	-6.50119	0.0299864	-9.42217	0.3068	-1.4493
ITCH	0.00109612	0.803557	-1.00611	0.49855	-1.0615	0.0165409	-1.4284	0.507457	-1.05505	0.152773	-1.41973	0.00759591	-1.34565
CRLF3	0.00109698	0.0417775	-1.41306	0.295992	1.14706	0.103205	1.37011	0.0132112	1.62097	0.0198391	1.93605	0.0560746	1.19445
UNKNOWN	0.00110301	0.0300463	1.43458	0.195179	-1.1703	0.172892	-1.25728	0.0161877	-1.6789	0.00617304	-1.80367	0.473528	-1.07432
FAM69A	0.00110444	0.0736993	1.4055	0.987768	1.0019	0.0143376	1.6039	0.0624043	-1.40284	0.0835001	1.14116	0.0134171	1.60086
ITGB1	0.00110994	0.00774226	3.75504	0.0339428	1.45958	0.0948283	1.21158	0.0076458	-1.5808	0.067381	-3.82489	0.264232	1.43293
PKIA	0.00111168	0.867801	1.01063	0.273274	1.13956	0.0261623	2.71361	0.2442	1.12758	0.0430656	2.68508	0.0496801	2.38127
SLC24A6	0.00111264	0.00277034	-1.42213	0.0489215	1.15563	0.0650321	1.71009	0.0853392	1.64346	0.0310321	2.43198	0.114743	1.47979
SFMBT2	0.00111946	0.0098516	-1.23258	0.212389	1.09024	0.0128715	1.19027	0.0083894	1.3438	0.0247904	1.4671	0.181339	1.09175
PPP4R1	0.00112006	0.16738	1.18202	0.321216	-1.22633	0.0320873	-1.88631	0.0695084	-1.44954	0.0100354	-2.22964	0.0101488	-1.53818
DENND2D	0.00112072	0.0273775	-1.15242	0.157676	1.09434	0.0229206	1.48504	0.0485958	1.26114	0.0505062	1.71139	0.103115	1.35701
GRAP	0.00112089	0.16547	-1.28368	0.473657	1.05702	0.0219116	1.86635	0.0681801	1.35687	0.0237185	2.39579	0.0557291	1.76567
RPL10A	0.00112154	0.0315399	-1.30505	0.522054	1.08443	0.00540141	1.35144	0.0508261	1.41523	0.0468037	1.76369	0.118028	1.24623
CNTNAP3	0.00112457	0.0214786	1.62136	0.662198	1.03905	0.0903326	1.24933	0.0327861	-2.914	0.0133886	-2.9779	0.0351343	1.22038
FRMD4B	0.00112532	0.122785	1.28533	0.0759013	1.30905	0.0346233	-5.49222	0.0476342	-2.914	0.0133886	-7.05932	0.133364	-2.42256
C3orf44	0.00113583	0.671743	1.01885	0.0326633	1.47739	0.265884	-1.04122	0.00054154	1.45005	0.439236	-1.06085	0.0448011	-1.53829
FUS	0.00113852	0.0219018	-1.30405	0.184706	1.07855	0.853617	-1.00896	0.0142601	1.40648	0.0168144	1.29247	0.372659	-1.08821
ANK3	0.0011319	0.00936447	2.15586	0.108782	-1.34387	0.889531	-1.02834	0.010754	-2.8972	0.0596801	-2.21697	0.104988	1.30683
FLNB	0.001141419	0.0303878	-1.47973	0.00134201	1.74924	0.0879198	0.04304	0.00397632	2.58587	0.00525546	2.35087	0.32316	0.53026
AKR1B1	0.0011419	0.253525	-1.11633	0.0826153	1.26724	0.0775371	1.28403	0.0666503	1.41466	0.0325546	1.43341	0.276568	1.01325
C16orf61	0.00114936	0.0265718	1.16648	0.0790135	-1.12383	0.208931	-1.11236	0.00570901	-1.31093	0.0294586	-1.29755	0.726994	1.01031
CDNF	0.0011505	0.0902825	-1.42817	0.247676	1.28128	0.0865354	1.44337	0.00448224	1.82988	0.000464424	2.06137	0.135369	1.12651
HLA-DRB5	0.00115718	0.0640004	1.34829	0.0563354	-2.24616	0.0139361	-7.70036	0.0676378	-3.02848	0.0181074	-3.64087	0.447112	-1.20221
TNIP1	0.00115007	0.0677504	1.22009	0.780838	-1.00908	0.0491721	-1.07948	0.02161	-1.23117	0.031444	-1.31706	0.121296	-1.06976
RIPK1	0.00116303	0.301214	-1.01702	0.220052	-1.10528	0.0356421	-1.46687	0.23494	-1.08678	0.0345254	-1.44232	0.00781518	-1.32715
SHKBP1	0.0011664	0.0293153	1.12544	0.0778135	-1.15888	0.0722937	-1.24101	0.0211805	-1.30424	0.0324401	-1.39668	0.100321	-1.07088
GPR114	0.00116779	0.102494	1.07445	0.143813	-1.16969	0.0347966	-2.2861	0.0382895	1.95472	0.0370187	2.00632	0.0267079	1.0264
UNKNOWN	0.00116867	0.0599173	-1.57989	0.0478966	1.23726	0.0097193	1.26992	0.0382895	1.95472	0.0370187	2.00632	0.112897	1.2064
TAF4B	0.00117322	0.0431436	-1.75373	0.354641	1.26411	0.00155366	4.20465	0.006658	2.81318	0.00135155	7.37381	0.112897	2.62117
GALNT10	0.0011743	0.862903	-1.02226	0.166771	1.23385	0.0175724	-1.65287	0.0881343	-1.89489	0.0513143	-1.65013	0.00097951	-2.31351
ST7	0.00117766	0.316896	-1.22092	0.0076508	-1.35155	0.17343	-1.01883	0.0074396	-1.65013	0.00097951	-2.31351	0.098916	-1.40202
FAM86B1	0.00117806	0.673443	-1.24579	0.67671	1.07343	0.018501	1.30424	0.00743961	1.33727	0.0377369	1.62481	0.11563	2.1502
FAM63A	0.00118506	0.29462	-1.42669	0.25635	1.23627	0.0258593	2.46212	0.0697832	1.76378	0.01365	3.51268	0.00035623	3.9115
APP	0.00118572	0.0190496	-1.77831	0.0514185	-1.35739	0.0548188	2.73695	0.138067	1.31009	0.0277649	4.86715	0.0535999	3.71512
TBK1	0.00118854	0.0479723	1.76815	0.0700812	-1.19085	0.0396377	-1.57055	0.0385766	-2.1056	0.0411339	-2.77697	0.0509198	-1.31886
CLSPN	0.00119088	0.0994987	-1.13372	0.0421263	-1.17559	0.0163406	-1.2374	0.0428131	-1.08693	0.0327057	-1.09145	0.0683454	-1.05257
STAT5B	0.00119208	0.0492616	1.33089	0.492519	-1.05001	0.694007	0.0102323	-1.00903	0.0102323	-1.36595	0.0227574	0.433	1.04061
FAM86C	0.00119736	0.00127039	-1.58707	0.205104	-1.06412	0.314254	1.12428	0.00705584	1.49144	0.026656	1.78431	0.276037	1.19637

RASA3	0.00120074	0.375206	1.05081	0.739383	1.00898	0.0112285	1.42451	0.48191	-1.04145	0.0627349	1.35563	0.0229787	1.41183
DENND3	0.00120245	0.00564012	-1.21037	0.0734474	-1.59557	0.0381223	-4.10904	0.149555	-1.31825	0.0454084	-3.39485	0.0284914	-2.57528
C20orf11	0.00120412	0.279635	-1.0388	0.169794	1.07686	0.0279599	1.12974	0.0142686	1.11864	0.00322435	1.17357	0.0788379	1.04911
C11orf63	0.00120499	0.827048	1.01234	0.0372193	-1.44819	0.0468034	-1.80221	0.0139038	-1.46607	0.0202144	-1.82446	0.184711	-1.24446
NUP88	0.00120815	0.00749998	-1.10374	0.56126	1.00772	0.0651169	1.16589	0.0326518	1.11226	0.0232398	1.28684	0.0840899	1.5696
ACSS2	0.00121005	0.0484191	-1.47133	0.17327	1.16416	0.106731	1.35258	0.0463834	1.71286	0.0164346	1.99009	0.325111	1.16185
LARS	0.0012101	0.130474	-1.09914	0.177835	1.13891	0.0476367	1.49455	0.0718209	1.25182	0.0252542	1.64272	0.0126044	1.31226
ZC3H12A	0.00121056	0.0296837	1.25214	0.0860022	-1.11206	0.110174	-1.35423	0.00233409	-1.39246	0.0173345	-1.69569	0.131163	-1.21777
NEO1	0.00121086	0.580734	1.0506	0.0347567	-1.54764	0.0433686	-3.63842	0.00150342	-1.62594	0.0338164	-3.82252	0.0676237	-2.35095
PEA15	0.00121707	0.17974	1.30306	0.0413029	-1.38624	0.0237834	-1.62447	0.0422999	-1.80635	0.00968819	-2.11679	0.28932	-1.17186
NRD1	0.00122695	0.0530944	1.12005	0.177283	-1.09145	0.11043	-1.12668	0.0132542	-1.22247	0.00492519	-1.26194	0.342468	-1.03229
ARHGEF12	0.00122876	0.0608746	1.73988	0.0465761	-1.20907	0.0511663	-1.99285	0.026781	-2.10363	0.0258015	-3.46731	0.125773	-1.64825
DPYSL2	0.00122983	0.952752	-1.00471	0.0588751	-1.80417	0.055414	-2.00831	0.0212549	-1.79572	0.0215727	-1.9989	0.0743531	-1.11315
ARF3	0.0012315	0.689162	1.03108	0.0494284	-1.32002	0.0704396	-1.30302	0.00434639	-1.36104	0.0600082	-1.34352	0.328111	1.01305
ARHGAP10	0.0012334	0.238024	-1.2551	0.017977	-1.30638	0.00902164	-2.47104	0.824207	-1.04086	0.030575	-1.9688	0.351786	-1.89152
FBXW8	0.00124042	0.00632701	-1.41481	0.0434742	1.15191	0.458356	1.07872	0.011225	1.62975	0.0170083	1.52619	0.60222	-1.06785
PLXNC1	0.00124832	0.00245941	1.25822	0.236843	-1.17826	0.0309226	-2.78589	0.0572697	-1.48251	0.0223987	-3.50526	0.0877816	-2.3644
UNKNOWN	0.00125143	0.0214232	1.38351	0.00506397	1.20209	0.00981872	1.4511	0.0911396	-1.15924	0.680927	1.04133	0.0549019	1.20715
MRM1	0.00125351	0.30237	-1.10964	0.015699	1.15419	0.0076601	1.45541	0.0498077	1.28074	0.0441156	1.61499	0.0422168	1.26099
MPZL1	0.00126262	0.0186776	-1.57043	0.299579	-1.09289	0.108487	-1.15864	0.0468143	1.43695	0.00737328	1.35542	0.401342	-1.06015
hCG_2039148	0.00126341	0.00306181	-1.35107	0.146325	1.16418	0.785137	-1.02344	0.0186765	1.5729	0.0635062	1.32012	0.00508988	-1.19148
PTK2	0.0012669	0.0143369	-1.81875	0.509117	-1.21728	0.0257068	2.29919	0.165636	1.49411	0.00554016	4.18165	0.0595478	2.79876
SPIRE2	0.0012685	0.0865815	1.2205	0.652614	-1.02659	0.0126693	-1.3232	0.13642	-1.25294	0.0192641	-1.61496	0.0101593	-1.28893
REEP4	0.00127599	0.13379	1.11302	0.226846	-1.06023	0.039794	-1.59331	0.156766	-1.18006	0.0155556	-1.77338	0.0639484	-1.50279
C16orf67	0.00128485	0.0427573	-1.21116	0.00781918	1.23093	0.0863566	1.23343	0.0177958	1.49085	0.0516051	1.49388	0.96982	1.00203
CHAC1	0.0012851	0.00910295	1.17815	0.00548934	1.01263	0.266602	-1.07075	0.0100216	-1.16346	0.0160647	-1.26151	0.208209	-1.08427
FANCA	0.0012861	0.261405	1.1806	0.0144891	-1.36411	0.0161141	-1.62692	0.0768486	-1.61046	0.0118582	-1.92074	0.16425	-1.19266
TRAF6	0.00128973	0.202495	1.14545	0.249962	-1.08948	0.0784355	-1.2848	0.0130392	-1.24794	0.0212472	-1.47168	0.0660236	-1.17928
PLEKHA2	0.00129394	0.0137739	1.46982	0.288785	-1.1049	0.104986	-1.29594	0.0392208	-1.62401	0.0065077	-1.9048	0.309326	-1.1729
PTK7	0.00130743	0.00552283	1.11299	0.158866	1.23095	0.0207725	1.6073	0.374655	1.10598	0.0251988	1.44413	0.0681863	1.30575
CMTM1	0.00131836	0.0142547	-1.05241	0.0559688	-1.08226	0.0216476	-1.27834	0.332956	-1.02836	0.0271593	-1.21468	0.093284	-1.18118
PCBP4	0.00131981	0.375289	1.11049	0.0666813	-1.31236	0.062673	-1.60961	0.0270138	-1.45736	0.0123739	-1.78745	0.0937658	-1.2265
UNKNOWN	0.00132264	0.0376587	1.42417	0.229623	1.06618	0.0408718	1.11614	0.0385277	-1.33577	0.041239	-1.27598	0.160129	1.04686
DMPK	0.00132266	0.137842	1.15891	0.00327725	-1.14356	0.0368592	-1.37171	0.0550426	-1.32529	0.0224607	-1.58969	0.110538	-1.19951
CNTNAP3	0.0013235	0.00152131	1.65782	0.239975	-1.08972	0.0671935	1.40783	0.0640367	-1.80656	0.232668	-1.17757	0.0961555	1.53414
CNTNAP3	0.0013235	0.00152131	1.65782	0.239975	-1.08972	0.0671935	1.40783	0.0640367	-1.80656	0.232668	-1.17757	0.0961555	1.53414
ZSCAN23	0.00133158	0.0143943	-1.94941	0.153067	1.21039	0.562503	1.12488	0.0067914	2.35955	0.0436762	2.19285	0.541305	-1.07602
UNKNOWN	0.00133319	0.0386031	-1.12509	0.0364534	1.12683	0.0144153	-1.42283	0.0881806	1.27754	0.0814134	-1.25498	0.0145829	-1.60329
SCARNA17	0.00134177	0.0652482	-1.13375	0.258056	1.12683	0.0144153	-1.42283	0.0881806	1.27754	0.0814134	-1.25498	0.0145829	-1.60329
USP51	0.00134494	0.0941431	-1.21813	0.423272	1.07581	0.106703	1.26862	0.0076129	1.31047	0.00201902	1.54535	0.022995	1.17923
C14orf80	0.00135338	0.00601058	1.17007	0.00733028	1.16468	0.60224	-1.01976	0.711815	-1.00463	0.0571616	-1.19319	0.0539752	-1.18769
UNKNOWN	0.00135372	0.00544487	1.65894	0.532264	1.05846	0.0335698	1.65902	0.0485592	-1.56731	0.999714	1.00005	0.0034899	1.56739
UNKNOWN	0.00135372	0.00544487	1.65894	0.532264	1.05846	0.0335698	1.65902	0.0485592	-1.56731	0.999714	1.00005	0.0034899	1.56739
MYO15B	0.00135642	0.0524358	-1.60522	0.00155941	1.63943	0.0804575	2.10341	0.0123089	2.63164	0.0220356	3.37644	0.402967	1.28302
DAZ2	0.00136476	0.0216229	1.66901	0.926985	-1.00422	0.0489525	1.60181	0.037161	-1.67606	0.624572	-1.04196	0.0469517	1.60857
LLGL2	0.00137084	0.0480926	1.22241	0.0383309	-1.29532	0.076379	-1.78236	0.00221529	-1.58341	0.0263367	-2.17878	0.112905	-1.37601
SERPINF1	0.00137293	0.0600189	-1.70264	0.117768	1.6825	0.0259343	2.10386	0.0314763	2.86469	0.0297999	3.5821	0.29314	1.25043
STOM	0.0013789	0.00956155	1.45853	0.0078489	-1.28709	0.0718422	-1.98094	0.0024814	-1.87725	0.0310905	-2.88926	0.15512	-1.53909
MEST	0.00137963	0.00571298	-3.37228	0.28702	1.72999	0.14307	1.81005	0.0358158	5.83399	0.0100097	6.10399	0.83344	1.04628
UNKNOWN	0.00138157	0.00830582	1.30348	0.823439	1.01133	0.0931601	1.16941	0.0072546	-1.28888	0.09958	-1.11464	0.085903	1.15632
SPDYE5	0.00138261	0.0721947	1.17524	0.0408916	1.12511	0.00986954	1.22145	0.182649	-1.04456	0.275576	1.03932	0.00341578	1.08564
STK3	0.00138267	0.801619	-1.02938	0.0261143	-1.3899	0.0253634	-2.10413	0.158291	-1.35023	0.002516	-2.04407	0.101916	-1.51387
TYMP	0.00138505	0.069974	1.30768	0.562735	-1.04507	0.174104	-1.12441	0.0123833	-1.36661	0.0122516	-1.47037	0.0198889	-1.07592
EDARADD	0.00138816	0.00997853	3.09673	0.286824	-1.2297	0.489998	-1.31283	0.00297583	-3.80806	0.0224433	-4.06549	0.806947	-1.0676
C18orf22	0.00139345	0.774631	-1.01865	0.0029861	1.49545	0.0518835	1.33643	0.0113819	1.52334	0.0986332	1.36135	0.212996	-1.11899
GRAP	0.00139683	0.170363	-1.22192	0.135905	1.2581	0.0142422	1.76077	0.00424539	1.5373	0.0286666	2.15152	0.145291	1.39954
CBFA2T2	0.00139919	0.690492	1.01012	0.0308866	-1.26099	0.0435267	-1.30865	0.0362088	-1.27376	0.0521438	-1.3219	0.194071	-1.03779
NANOS2	0.00140626	0.0115875	1.29	0.0509493	1.182	0.217668	1.08299	0.14075	-1.09138	0.0201642	-1.19115	0.0728107	-1.09142
SV2A	0.00141329	0.0274877	1.47538	0.0383476	-1.43126	0.077948	-1.47277	0.0263989	-2.11166	0.00719354	-2.17289	0.890612	-1.029
SNORD115-17	0.0014136	0.0593264	1.40145	0.56872	1.01024	0.0227443	1.37049	0.0523294	-1.38725	0.645637	-1.02259	0.0212422	1.3566
SNORD115-17	0.0014136	0.0593264	1.40145	0.56872	1.01024	0.0227443	1.37049	0.0523294	-1.38725	0.645637	-1.02259	0.0212422	1.3566
SNORD115-17	0.0014136	0.0593264	1.40145	0.56872	1.01024	0.0227443	1.37049	0.0523294	-1.38725	0.645637	-1.02259	0.0212422	1.3566
CWH43	0.00141731	0.015064	2.03157	0.929757	-1.01127	0.0349872	1.95887	0.0474644	-2.05447	0.615804	-1.03711	0.0508488	1.98095
MYO1C	0.00141785	0.0338759	1.4567	0.0467768	-1.60866	0.279955	-1.31683	0.00411528	-2.34334	0.0380935	-1.91823	0.132464	1.22162
COPA	0.0014225	0.142316	1.08262	0.178119	-1.11796	0.0372037	-1.16964	0.143374	-1.21033	0.00119094	-1.26628	0.273974	-1.04623
SNORA55	0.00142488	0.00907801	-1.20268	0.518482	-1.02757	0.00704095	-1.13982	0.0120435	1.17041	0.162889	1.05516	0.130083	-1.10923
PELO	0.00142679	0.0107182	2.37058	0.0371392	-1.96375	0.0857317	-3.18898	0.0186105	-4.65523	0.0428704	-7.55972	0.170736	-1.62392
TBC1D15	0.00143139	0.576816	-1.05878	0.745537	1.03792	0.0119893	1.5016	0.0900539	1.09893	0.0094289	1.58986	0.0215513	1.44673
IGF1R	0.00143295	0.00274585	-2.38855	0.0018727	2.20018	0.18204	1.96741	0.00169528	5.25525	0.0339947	4.69926	0.786129	-1.11832
AKNA	0.00143617	0.507346	-1.02803	0.33439	-1.13091	0.00183683	-1.65919	0.340247	-1.10007	0.0076269	-1.61395	0.0779414	-1.46713
SOX13	0.00144039	0.00288035	1.33478	0.324006	-1.17226	0.0229908	-1.56082	0.070436	-1.56471	0.0054786	-2.08335	0.149769	-1.33146
NAP1L1	0.00144717	0.166537	-1.13797	0.303685	1.10586	0.0394525	1.25794	0.00299707	1.25844	0.0614012	1.43151	0.0629968	1.13753
NRM	0.00144889	0.230581	1.07511	0.0573267	-1.18867	0.0563905	-1.40392	0.000297072	-1.27795	0.0268657	-1.50937	0.123545	-1.18108
PIWIL4	0.00145127	0.11349	1.22653	0.0864911	-1.1876	0.0452216	-1.32109	0.0663451	-1.45662	0.0199433	-1.62035	0.122722	-1.11241
FCHO2	0.00145478	0.979294	-1.0042	0.0244105	-1.65949	0.0376363	-4.60426	0.0952344	-1.65255	0.0213451	-4.58502	0.0892927	-2.7745
ZBTB44	0.00145564	0.243154	-1.11147	0.996544	-1.00014	0.00800606	-1.42214	0.116216	1.11132	0.0833127	-1.27951	0.0212388	-1.42194
CD69	0.00145834	0.0175095	1.64842	0.13415	-1.13244	0.0845976	-1.50951	0.0302926	-1.86674	0.0425085	-2.48832	0.108734	-1.33297
CLIP4	0.00145941	0.277648	1.05925	0.448103	-1.06658	0.04235	-1.4497	0.189857	-1.12978	0.0248248	-1.5356	0.00152238	-1.35921
UNKNOWN	0.00146213	0.0908807	1.11989	0.547714	-1.02781	0.00485253	1.28077	0.0203182	-1.15103	0.13076	1.14366	0.0382618	1.31639
NPAT	0.00147408	0.167707	-1.1004	0.769386	-1.01889	0.020723	1.33339	0.0201131	1.34	0.0277306	1.46727	0.0512225	1.35858
JAGN1	0.00148524	0.29211	-1.07099	0.528335	1.06268	0.019969	1.35171	0.107919	1.13812	0.0662274	1.44768	0.0237939	1.27199
CDK2AP1	0.00148837	0.0251922	1.33112	0.264641	-1.15028	0.0129739	-1.41296	0.0586353	-1.53117	0.0179154	-1.88083	0.178	-1.22836
EPHX2	0.00149067	0.0146046	-2.52773	0.966222	-1.01263	0.0766233	2.47974	0.0336021	2.4962	0.012349	6.26812	0.104038	2.51107
RAB43	0.00149103	0.0740395	-1.31828	0.0168545	1.41194	0.0388278	1.98462	0.0093734	1.86133	0.0377244	2.61628	0.205367	1.4056
MTCH2	0.00149435	0.0128645	1.11038	0.664078	-1.01532	0.203082	-1.0413	0.033265	-1.12739	0.0129591	-1.15624	0.114695	-1.02559
RAPGEF1	0.00150418	0.0440179	1.70706	0.472712	-1.09109	0.121068	-1.30406	0.0129412	-1.86256	0.0308707	-2.2261	0.280639	-1.19518
UNKNOWN	0.00151578	0.0264497	1.18941	0.63458	-1.01965	0.221426	-1.05338	0.0920888	-1.21279	0.032135	-1.2529	0.414008	-1.03308
WDR89	0.0015162	0.169369	-1.20398	0.0977455	1.31379	0.0159212	1.53343	0.0109211	1.58178	0.0343836	1.84623	0.247462	1.16718
C7	0.0015191	0.00470792	1.17171	0.0326711	1.0923	0.725539	1.0148	0.0344209	-1.07271	0.0341677	-1.15463	0.0843347	-1.07637
IL4R	0.00151911	0.00868363	1.54252	0.22294	-1.22022	0.027894	2.11902	0.0277741	-1.88222	0.130128	1.37374	0.0517993	2.58567
SNRNP70	0.00152595	0.0117536	-1.06607	0.672554	-1.01708	0.00700837	1.15747	0.374174	1.04817	0.0251537	1.23394	0.0565605	1.17724
TSPY1	0.00152688	0.0402254	1.6074	0.175775	1.13767	0.0527313	1.46485	0.0164503	-1.41289	0.123085	-1.09731	0.0504414	1.28759
IL15RA	0.00153238	0.365427	1.0702	0.34626	-1.06801	0.0309035	-1.60442	0.0569772	-1.14299	0.0249783	-1.71706	0.0688848	-1.50225
MYL6	0.00153273	0.0300007	1.16344	0.249075	-1.15349	0.033464	-1.28277	0.0497947	-1.34201	0.00418123	-1.49243	0.130802	-1.11208
RILPL2	0.00153577	0.0403997	1.38978	0.0902995	-1.41759	0.450172	-1.11213	0.0190278	-1.97014	0.0428926	-1.54561	0.0483638	1.27467
ZC3HAV1L	0.00153897	0.082495	1.38596	0.0114242	-2.03519	0.046388	-3.45357	0.0274461	-2.82069	0.0338776	-4.7865	0.25294	-1.69692
GABARAPL1	0.00153905	0.017565	1.82572	0.171827	-1.4184	0.0289032	-1.55873	0.0604242	-2.58961	0.021497	-2.8458	0.405057	-1.09893
SELT	0.00154903	0.000805071	1.03338	0.1173	-1.12907	0.0375663	-1.24775	0.0778095	-1.16675	0.0288534	-1.2894	0.000912419	-1.10512
PRKCI	0.00155318	0.239373	1.03698	0.0187197	-1.17094	0.0418906	-1.29117	0.00424612	-1.21425	0.04614	-1.33892	0.208662	-1.10267
RAB11FIP4	0.00155782	0.0696892	1.10899	0.875738	1.00781	0.072654	-1.23674	0.0373867	-1.10039	0.0240828	-1.37153	0.0258171	-1.2464

Supplementary Table 3 Genes progressively up and downregulated with T cell differentiation

Gene Symbol	p-value(TSCM vs.TN)	Fold-Change(TSCM vs.TN)	p-value(TSCM vs. TCM)	Fold-Change(TSCM vs. TCM)	p-value(TSCM vs. TEM)	Fold-Change(TSCM vs. TEM)	p-value(TN vs. TCM)	Fold-Change(TN vs. TCM)	p-value(TN vs. TEM)	Fold-Change(TN vs. TEM)	p-value(TCM vs. TEM)	Fold-Change(TCM vs. TEM)
ACTN1	0.0183989	-1.67706	0.0244635	2.27726	0.0125869	17.9448	0.0108189	3.81909	0.0104555	30.0944	0.0457959	7.87999
NRCAM	0.0183407	-8.8258	0.259817	1.92422	0.042739	2.54578	0.0140954	16.9828	0.0265062	22.495	0.384196	1.32458
SULT1B1	0.0133697	-5.00719	0.189641	1.83317	0.0590558	4.04532	0.00307328	9.17902	0.00340866	20.2557	0.006361	2.20673
DSC1	0.178677	-1.39142	0.12244	1.96372	0.00361216	14.3569	0.0140565	2.73236	0.00138929	19.9765	0.0128318	7.31107
AK5	0.0143577	-4.69939	0.124661	1.8169	0.0834648	3.83549	0.0166457	8.53831	0.0148797	18.0244	0.112196	2.11101
SLC16A10	0.0577322	-2.69776	0.0570946	2.08896	0.0221397	4.68649	0.019837	5.6355	0.0173187	12.643	0.174645	2.24346
UBE2E2	0.0536838	-2.75872	0.0251461	2.85764	0.0187504	4.51899	0.009456	7.88343	0.0665592	12.4666	0.275269	1.58137
NOG	0.0287452	-2.36496	0.0183687	4.04517	0.0633113	4.43908	0.0573883	9.56667	0.0041094	10.4982	0.771253	1.09738
LEF1	0.0150759	-1.23562	0.0585569	1.25608	0.00825779	7.34183	0.00538289	1.55204	0.0870699	9.0717	0.0170306	5.84502
MAL	0.10662	-1.40875	0.0216165	1.63099	0.0195328	6.26087	0.0851417	2.29765	0.022314	8.81999	0.0541989	3.83871
CDCA7L	0.130145	-1.65995	0.244106	1.84378	0.0272027	5.18537	0.0261357	3.06059	0.013959	8.60746	0.0666716	2.81235
LRRN1	0.00325955	-2.67153	0.000883301	1.81412	0.0244968	2.89665	0.00610973	4.84648	0.00324048	7.73848	0.0935411	1.59672
LASS6	0.000116172	-1.6725	0.116622	1.82705	0.020752	4.6087	0.0378724	3.05574	0.011228	7.70805	0.0843697	2.52248
RBM11	0.000510298	-3.21077	0.246056	1.37006	0.039999	2.38066	0.0211581	4.39894	0.0603877	7.64375	0.272525	1.73763
TAF4B	0.0431436	-1.75373	0.354641	1.60411	0.00155366	4.20465	0.066558	2.81318	0.0135155	7.37381	0.112897	2.62117
NBEA	0.00532862	-3.62393	0.989431	1.0011	0.0101654	2.03419	0.0851375	3.62792	0.000182885	7.37175	0.0241657	2.03195
CNN3	0.0282258	-3.72489	0.114924	1.52673	0.0431262	1.97104	0.0155991	5.68689	0.0247773	7.3419	0.431702	1.29102
TIMD4	0.392733	-1.1021	0.00292324	3.31465	0.0086716	6.46749	0.00800144	3.65306	0.002142	7.1278	0.0262516	1.95118
KRT73	0.495482	-1.12752	0.0640508	3.25343	0.0173955	6.18711	0.0165664	3.66831	0.00256775	6.9761	0.0142035	1.90172
PTPRK	0.0780948	-3.96543	0.255671	1.30618	0.0238035	1.70926	0.0866956	5.17956	0.00137403	6.77796	0.118497	1.3086
MEST	0.00571298	-3.37228	0.28702	1.72999	0.14307	1.81005	0.0358158	5.83399	0.0100097	6.10399	0.83344	1.04628
IL6ST	0.00356465	-2.02168	0.63256	1.11083	0.013613	2.85814	0.0310896	2.24575	0.00231292	5.77825	0.00792746	2.57297
PPFIBP2	0.00970509	-1.78824	0.00974233	2.33102	0.00972407	3.1754	0.00200262	4.16844	0.00197413	5.6784	0.0140039	1.36224
C5orf13	0.0194105	-2.23877	0.124438	1.55317	0.0206312	2.531	0.00215128	3.47719	0.0192002	5.66633	0.246246	1.62957
KCNQ5	0.00172571	-3.05317	0.0619743	1.31551	0.147051	1.8071	0.00262647	4.01648	0.0147442	5.51738	0.325587	1.37368
GJB6	0.0270628	-1.72597	0.012777	1.96545	0.0278187	3.10529	0.00262196	3.39231	0.00950916	5.35963	0.087846	1.57994
APBA2	0.0170104	-1.55431	0.11898	1.42467	0.0239041	3.26437	0.00945143	2.21437	0.021907	5.07384	0.122349	2.29132
EFHA2	0.13694	-1.78258	0.822686	1.06706	0.0362708	2.78694	0.0846608	1.90212	0.00371172	4.96794	0.0124686	2.61179
BCL9	0.0356847	-2.22703	0.75678	1.04818	0.0486984	2.19311	0.012616	2.33433	0.00248249	4.88412	0.0233955	2.0923
EDAR	0.00829007	-2.20373	0.0674126	1.91592	0.0154425	2.20811	0.00718816	4.22218	0.00906716	4.86607	0.0500819	1.1525
LGMN	0.0237674	-1.94034	0.0509171	1.18355	0.0149549	2.4704	0.00601602	2.29649	0.0146024	4.79342	0.0346647	2.08728
LRRC16A	0.001273	-1.69086	0.149743	1.33124	0.0630459	2.8346	0.0286334	2.25094	0.0027091	4.79292	0.0215877	2.1293
SDK2	0.00385422	-2.12094	0.00377969	1.60841	0.0163392	2.24881	0.0014058	3.41134	0.00245489	4.7696	0.107115	1.39816
LOC129293	0.00310439	-1.66745	0.0203792	1.47186	0.0248137	2.76268	0.00730761	2.45426	0.0841668	4.60664	0.101618	1.877
FAM153B	0.0458906	-1.42768	0.0880125	1.33303	0.0635873	1.9514	0.0602238	1.90314	0.000191942	4.55773	0.0417718	2.39485
CHMP7	0.00585986	-1.63599	0.107089	1.38895	0.010149	2.68467	0.012197	2.27231	0.0416048	4.39209	0.00883477	1.93287
KRT72	0.370173	-1.19011	0.0219252	2.19113	0.0328567	3.65507	0.00455275	2.60769	0.00366967	4.34995	0.066548	1.66812
FCGBP	0.10171	-1.25196	0.029132	2.41024	0.0124966	3.45584	0.0407738	3.01753	0.0180077	4.32659	0.0453866	1.43382
TCEA3	0.132447	-1.2415	0.0485313	1.36801	0.0219086	3.48335	0.0209511	1.69838	0.0318894	4.32457	0.0661447	2.54629
CACHD1	0.016146	-3.08998	0.013294	1.25752	0.126557	1.36336	0.0112758	3.8857	0.0142332	4.21274	0.640205	1.08417
SLC22A17	0.116901	-1.57915	0.0358599	1.36991	0.0353926	2.66651	0.0657385	2.16328	0.0183057	4.21081	0.0533111	1.94649
STXBP1	0.0427608	-1.19438	0.040517	1.42829	0.0171578	3.52361	0.021094	1.70592	0.0882834	4.20853	0.0429125	2.46701
LRP6	0.0244824	-2.36208	0.223774	1.23754	0.0112303	1.74594	0.0220148	2.92316	0.0146152	4.12405	0.196945	1.41082
DEPDC7	0.00403787	-2.36577	0.108697	1.22587	0.0579152	1.64732	0.0766005	2.90012	0.00368158	3.89719	0.120476	1.3438
TXNRD3IT1	0.000190905	-2.79014	0.169291	1.16442	0.0876496	1.37686	0.00419666	3.2489	0.00471325	3.84162	0.424713	1.18244
VIPR1	0.0471522	-1.18851	0.0430397	1.34747	0.0269818	3.20509	0.0042975	1.60148	0.0292487	3.80929	0.0758342	2.3786
ANKRD31	0.0107563	-2.47482	0.347277	1.13348	0.0170114	1.529	0.0137527	2.80515	0.0205755	3.73399	0.157542	1.34894
HLA-DOA	0.0227487	-1.82461	0.168711	1.22048	0.00794378	1.99514	0.0126132	2.22691	0.00883481	3.64036	0.0154175	1.63472
KCTD12	0.00771714	-1.57605	0.0512504	1.14083	0.0473797	2.28879	0.00130735	1.79801	0.0169101	3.60725	0.0488053	2.00624
SERPINF1	0.0600189	-1.70264	0.117768	1.6825	0.0259343	2.10386	0.0314763	2.86469	0.0297999	3.5821	0.29314	1.25043
MAP1D	0.00666863	-1.65528	0.0636104	1.25916	0.00286378	2.1459	0.00274415	2.08426	0.00184182	3.55207	0.0270446	1.70423
FAM63A	0.29462	-1.42669	0.25635	1.23627	0.0255893	2.46212	0.0697832	1.76378	0.01365	3.51268	0.000359523	1.99157
LMO7	0.0293286	-1.5267	0.225677	1.34762	0.0494167	2.28789	0.0613674	2.05741	0.0105863	3.49293	0.127921	1.69773
GCET2	0.00360058	-1.19189	0.123666	1.1986	0.0316718	2.92785	0.0301242	1.4286	0.0262013	3.48967	0.0725257	2.44272
GNAI1	0.0570724	-1.97769	0.224082	1.41091	0.0233441	1.73246	0.0373971	2.79034	0.00686399	3.42627	0.286034	1.2279
MYO15B	0.0524358	-1.60522	0.00155941	1.63943	0.0804575	2.10341	0.0123089	2.63164	0.0220356	3.37644	0.402967	1.28302
BEND5	0.0315357	-1.36523	0.280312	1.24888	0.0210697	2.47085	0.0382186	1.70501	0.0631391	3.37328	0.0710444	1.97845
ZNF135	0.0272928	-2.11507	0.270104	1.32864	0.0844529	1.5702	0.0356079	2.81016	0.0140868	3.32107	0.415786	1.18181
FAM153C	0.125067	-1.49591	0.0180384	1.35104	0.0312759	2.20418	0.0350747	2.02103	0.00370561	3.29727	0.0443718	1.63147
C17orf48	0.0332872	-1.50435	0.134263	1.37629	0.00305636	2.19066	0.0474169	2.07043	0.00431586	3.29553	0.0379465	1.59171
ALPK1	0.032003	-1.63813	0.228989	1.31484	0.073019	1.98918	0.0158133	2.15388	0.0114397	3.25854	0.0082434	1.51287
AGBL3	0.000760132	-1.97854	0.0290031	1.36908	0.133105	1.64239	0.00215203	2.70878	0.0309627	3.24954	0.435133	1.19963
FCER1G	0.880899	-1.02503	0.0060208	2.60439	0.0228718	3.11916	0.0225581	2.66957	0.0156817	3.19722	0.248259	1.19765
TMEM220	0.0629253	-2.05968	0.11197	1.52774	0.126272	1.54176	0.0136092	3.14667	0.0623972	3.17554	0.881964	-0.00917
TNFRSF10D	0.00111848	-1.71294	0.0314308	1.31773	0.0403421	1.83863	0.0628972	2.25719	0.0153685	3.14947	0.0606424	1.3953
CYP2J2	0.00215069	-2.36721	0.68546	1.07188	0.189417	1.32641	0.0134624	2.53736	0.012163	3.1399	0.205075	1.23746
FLJ13197	0.207355	-1.19675	0.0223282	1.42407	0.0217459	2.62338	0.0208046	1.70425	0.0341681	3.13953	0.0480429	1.84217
GAL3ST4	0.00548412	-1.54171	0.0261167	1.5782	0.0112249	2.02833	0.00233375	2.43312	0.0643157	3.1271	0.180511	1.28522
FAM153B	0.193849	-1.27025	0.0392886	1.36197	0.0104388	2.4513	0.0919282	1.73005	0.00794942	3.11356	0.0573882	1.7997
KIAA0748	0.0304212	-1.1488	0.733517	1.0488	0.0176314	2.67605	0.203334	1.20486	0.00918107	3.07426	0.00748204	2.55155
FAM117B	0.0543794	-1.23605	0.0582279	1.51856	0.00106752	2.4717	0.0117159	1.87701	0.0044003	3.05514	0.0679078	1.62766
OCM2	0.636401	-1.03388	0.332784	1.15258	0.0140659	2.93399	0.194078	1.19162	0.000606448	3.03338	0.00741561	2.54558
UNKNOWN	0.0306585	-1.99901	0.544012	1.14954	0.130622	1.51364	0.0172956	2.29794	0.00715727	3.02578	0.00879112	1.31674
FLNB	0.0303878	-1.47973	0.00134201	1.74924	0.0879198	2.04304	0.00397632	2.58841	0.0276962	3.02316	0.530926	1.16796
PIM2	0.0058341	-1.53372	0.0458077	1.32401	0.019987	1.95277	0.0100162	2.03066	0.00362373	2.99501	0.0570805	1.47489
ARHGEF11	0.112995	-1.21442	0.1391	1.28371	0.0356442	2.38627	0.0162032	1.55896	0.0127233	2.89794	0.0641679	1.85889
KLHL3	0.0206421	-1.46534	0.149006	1.57102	0.0477265	1.95823	0.0364244	2.30208	0.0132413	2.86947	0.039617	1.24647
LDLRAP1	0.11118	-1.20467	0.0193153	1.415	0.0179651	2.37171	0.0418662	1.7046	0.0257716	2.85712	0.0183807	1.67612
C7orf10	0.0244945	-1.66617	0.0582746	1.43872	0.0497306	1.70058	0.0363442	2.39716	0.00215485	2.83345	0.504336	1.182
MAN1C1	0.0492803	-1.50254	0.928738	1.01349	0.00276642	1.86353	0.0171481	1.52281	0.0128241	2.80003	0.0640617	1.83873
RIC3	0.145382	-1.17443	0.388003	1.08004	0.0299613	2.37291	0.000110341	1.26842	0.0145819	2.78681	0.0235361	1.29707
NUCB2	0.0220164	-1.50737	0.0402664	1.69897	0.0788336	1.79649	0.00899567	2.56098	0.0126546	2.70797	0.728696	1.0574
ZNF542	0.0457114	-1.56389	0.99343	1.00112	0.0157788	1.71632	0.031475	1.56564	0.0040627	2.68413	0.00931137	1.71439
GATM	0.0444068	-1.60419	0.103538	1.43981	0.0785185	1.66718	0.00546567	2.30973	0.00492654	2.67448	0.0381517	1.15792
GIPC3	0.601321	-1.05807	0.0215355	1.75881	0.0270911	2.51613	0.0508373	1.86096	0.00624043	2.66225	0.179056	1.43058
KCNQ1	0.13507	-1.26558	0.0398842	1.42777	0.0123656	2.08741	0.0260693	1.80695	0.0301181	2.64178	0.113688	1.46201
RAB43	0.0740395	-1.31828	0.0168545	1.41194	0.0388278	1.98462	0.0093734	1.86133	0.0377244	2.61628	0.205367	1.4056
DCBLD2	0.0164805	-1.71595	0.0652256	1.24426	0.0226018	1.52235	0.0118073	2.13508	0.0066452	2.61227	0.00271024	1.2235
RASGRP2	0.000949898	-1.46816	0.0513667	1.17055	0.0187505	1.77263	0.0778531	1.71855	0.0497162	2.6025	0.0686116	1.51436
HLA-DOA	0.0204796	-1.69404	0.100695	1.15947	0.002569	1.51637	0.0163763	1.96419	0.00419019	2.5688	0.0208659	1.30782
MRPS33	0.070852	-1.53509	0.18476	1.21759	0.0755808	1.66865	0.0043937	1.86911	0.0188828	2.56153	0.0789719	1.37046
ZNF238	0.203962	-1.14016	0.0892134	1.14537	0.01317	2.21422	0.0217633	1.30591	0.00740518	2.52457	0.0089159	1.93319
LYRM5	0.0318289	-1.66566	0.28405	1.15113	0.0412099	1.49898	0.0156041	1.91739	0.0153886	2.49678	0.25263	1.30217
CEP68	0.25325	-1.10398	0.805954	1.02092	0.0213062	2.26061	0.431534	1.12707	0.00874629	2.49566	0.00222545	2.21429
NCRNA00185	0.0675367	-1.55998	0.0388164	1.36409	0.0207254	1.57273	0.0108767	2.12795	0.00803826	2.45342	0.207921	1.15295
OCRL	0.000932905	-2.06016	0.623403	1.08672	0.335076	1.18274	0.0236452	2.23881	0.0152507	2.43662	0.415453	1.08836
PITPNM2	0.0144766	-1.3772	0.0565731	1.52133	0.00746167	1.76753	0.0236995	2.09518	0.0097077	2.43424	0.288166	1.16183
SLC24A6	0.00270734	-1.42213	0.0489215	1.15563	0.0650321	1.71029	0.00853392	1.64346	0.0310321	2.43198	0.114743	1.47979
PRKAR1B	0.0539305	-1.34666	0.106756	1.53396	0.0364761	1.80251	0.0238604	2.06572	0.0332312	2.42737	0.165213	1.17507
C2orf67	0.00625527	-2.17733	0.625733	1.08461	0.293231	1.10665	0.0103956	2.36154	0.0681867	2.40953	0.909918	1.02032
GPR125	0.0172645	-2.0023	0.530861	1.10385	0.292232	1.20153	0.00710124	2.21025	0.00417349	2.40583	0.0254282	1.08849
ZSWIM1	0.331561	-1.12305	0.65809	1.03377	0.00967778	2.13907	0.110643	1.16097	0.028074	2.40228	0.0344268	2.0692
GRAP	0.16547	-1.28368	0.473657	1.05702	0.0219116	1.86535	0.0681901	1.35687	0.0237185	2.39579	0.0557291	1.76567
SGTB	0.021219	-1.20704	0.207798	1.1307	0.0171385	1.97479	0.0301383	1.3648	0.00919015	2.38365	0.0197331	1.74652
C16orf74	0.155018	-1.23781	0.00864538	1.51285	0.0498852	1.91854	0.0163623	1.87262	0.0267633	2.37478	0.17099	1.26816
MLXIP	0.00355214	-1.44963	0.000538963	1.45027	0.0384291	1.62734	0.000441921	2.10235	0.0191293	2.35905	0.388104	1.1221
PDK1	0.00841374	-1.62871	0.074122	1.34283	0.0257501	1.44262	0.014063	2.18709	0.00697436	2.34962	0.481148	1.07431
LDHB	0.119173	-1.11997	0.436715	1.14003	0.0026919	2.06919	0.127475	1.2768	0.00290202	2.31744	0.0345872	1.81504
USP53	0.0440409	-1.45306	0.218398	1.23784	0.00240696	1.55948	0.0485315	1.79865	0.00140702	2.26601	0.260131	1.25984
ZNF563	0.0582653	-1.31166	0.129253	1.1793	0.0417364	1.72719	0.00595824	1.54685	0.00478332	2.26549	0.0173881	1.46458
AEBP1	0.0701711	-1.18363	0.00335462	1.6217	0.0385448	1.88901	0.0463682	1.91949	0.0337851	2.23589	0.299586	1.16483
FAM175A	0.0259439	-1.42372	0.57199	1.06499	0.0534995	1.56898	0.0554787	1.51626	0.00718288	2.23379	0.0419286	1.47323
TARBP1	0.112316	-1.30742	0.0376591	1.21162	0.0399031	1.65594	0.0211711	1.58409	0.00308703	2.165	0.0416924	1.36671
GRAP	0.170363	-1.22192	0.135905	1.2581	0.0142422	1.76077	0.00424539	1.5373	0.0286666	2.15152	0.145291	1.39954
BZW2	0.517911	-1.04219	0.0504053	1.58478	0.00470697	2.06222	0.0466668	1.65163	0.0146717	2.14922	0.187923	1.30127
KAT2A	0.0789016	-1.34286	0.0706569	1.33939	0.0284187	1.58319	0.00288158	1.79862	0.0215689	2.126	0.257367	1.18202
CHKA	0.0200587	-1.22959	0.133024	1.40848	0.0415194	1.72206	0.0265614	1.73185	0.00953064	2.11743	0.0991088	1.22264
SNORD109A	0.0163118	-1.81824	0.181475	1.10307	0.0946372	1.1622	0.0108313	2.00565	0.0146253	2.11315	0.116852	1.0536
SNORD109A	0.0163118	-1.81824	0.181475	1.10307	0.0946372	1.1622	0.0108313	2.00565	0.0146253	2.11315	0.116852	1.0536
FAIM3	0.110877	-1.17985	0.0872671	1.3174	0.0583143	1.54434	0.0175182	1.55434	0.0115733	2.11091	0.0634818	1.35808
ZNF496	0.0883721	-1.37425	0.0134091	1.51936	0.0110727	1.52789	0.0375724	2.08791	0.0579775	2.09969	0.897743	1.00561
AP1M1	0.0639556	-1.36562	0.0739273	1.27519	0.0649391	1.52313	0.0822634	1.74142	0.0152596	2.08002	0.0686438	1.19444
ZNF506	0.0312158	-1.40363	0.135838	1.1937	0.0202581	1.47577	0.0261008	1.67552	0.0246493	2.07143	0.140171	1.2363
CDNF	0.0902825	-1.42817	0.247676	1.28128	0.0865354	1.44337	0.00448224	1.82988	0.00464424	2.06137	0.135369	1.12651
LOC100129858	0.0228274	-1.53688	0.046162	1.28441	0.00839116	1.33879	0.0379543	1.97398	0.00767121	2.05756	0.615454	1.04234
ZNF640	0.0173185	-1.51961	0.0640377	1.15882	0.106407	1.3421	0.00881165	1.76096	0.00464291	2.03947	0.153725	1.15816
ARHGEF18	0.12805	-1.09466	0.168281	1.18196	0.00290012	1.84041	0.146127	1.29384	0.00690876	2.01462	0.02056	1.55708
UNKNOWN	0.0599173	-1.57989	0.0478966	1.23726	0.00774593	1.26992	0.0382895	1.95472	0.0370187	2.00632	0.609776	1.0264
CCDC102B	0.0266879	-1.62778	0.713671	1.04508	0.211195	1.2319	0.002404	1.70116	0.00527556	2.00526	0.0330209	1.17876
TOP1MT	0.0373826	-1.24591	0.0635893	1.30771	0.0327802	1.6036	0.0233519	1.62929	0.0148642	1.99794	0.00840042	1.22626
ACSS2	0.0484191	-1.47133	0.17327	1.16416	0.106731	1.35258	0.0463834	1.71286	0.016434	1.99009	0.325121	1.16185
FOXP1	0.0121515	-1.3705	0.080818	1.16234	0.013601	1.59299	0.00699163	1.52393	0.00253209	1.97844	0.0168445	1.24197
TTTY14	0.0908546	-1.20579	0.0357193	1.25588	0.0163791	1.617	0.0575812	1.51432	0.0312399	1.94975	0.0197744	1.28754
CRLF3	0.0417775	-1.41306	0.295992	1.14706	0.103205	1.37011	0.0132112	1.62087	0.0198391	1.93605	0.0560746	1.19445
HSF2	0.0747398	-1.36009	0.0337475	1.23578	0.0452544	1.40845	0.0210211	1.68077	0.0339788	1.91562	0.120783	1.13973
HS3ST3B1	0.104553	-1.16295	0.136369	1.16456	0.0125835	1.64357	0.0726539	1.35433	0.00903952	1.91139	0.100256	1.41132
INPP5A	0.0186558	-1.39556	0.0373975	1.32448	0.166121	1.34838	0.016071	1.84998	0.00836776	1.89841	0.0476044	1.03199
UXS1	0.101393	-1.2119	0.0238596	1.19107	0.0323217	1.56648	0.0211581	1.44346	0.00836776	1.89841	0.094084	1.31518
LOC338799	0.111686	-1.21365	0.237768	1.06883	0.0154958	1.56266	0.0256952	1.29718	0.0366703	1.89652	0.0573065	1.46203
FAM65B	0.634615	-1.05151	0.184937	1.18602	0.0325131	1.79502	0.0940528	1.24712	0.00546314	1.88749	0.0115253	1.51348
JAK3	0.0319666	-1.42261	0.257666	1.11072	0.0248253	1.32194	0.0130125	1.58012	0.00873889	1.88061	0.0227789	1.19017
TACC3	0.113941	-1.07927	0.133876	1.12505	0.0114155	1.72979	0.103972	1.21423	0.00970022	1.86691	0.00311402	1.53752
RASA4	0.044774	-1.10125	0.117047	1.13145	0.0403827	1.94989	0.0142601	1.71068	0.0170968	1.85722	0.0584529	1.49455
RPP25	0.10696	-1.19596	0.228871	1.14012	0.0661106	1.55339	0.0174106	1.36353	0.0567647	1.85779	0.0584529	1.36248
ZNF101	0.00473636	-1.48761	0.558023	1.0518	0.0592574	1.24175	0.0100004	1.56468	0.0113477	1.84724	0.241015	1.18059

WDR89	0.169369	-1.20398	0.0977455	1.31379	0.0159212	1.53343	0.0109211	1.58178	0.0343836	1.84623	0.247462	1.16718
RHOH	0.00235656	-1.3093	0.193259	1.06238	0.00517862	1.39852	0.0153207	1.39098	0.000880369	1.83109	0.038517	1.3164
SFXN4	0.0206376	-1.42437	0.0911007	1.24662	0.0852366	1.28427	0.0307716	1.77564	0.0234226	1.82927	0.418795	1.0302
SNORA54	0.0867866	-1.33623	0.00639964	1.25093	0.0400296	1.36638	0.01985	1.67152	0.0155537	1.82579	0.260732	1.09229
UBASH3B	0.0683512	-1.16409	0.174246	1.14205	0.00885522	1.56532	0.0120336	1.32945	0.0156464	1.82217	0.0653585	1.37062
KIAA1958	0.111782	-1.18777	0.191451	1.072	0.0253345	1.52732	0.0515196	1.2733	0.0360611	1.81411	0.0272052	1.42474
NMNAT3	0.0207256	-1.43261	0.012848	1.11078	0.153291	1.24608	0.0162652	1.59132	0.0114057	1.78515	0.402229	1.2181
MMP19	0.0913408	-1.18518	0.0594405	1.33241	0.00393427	1.4914	0.0483323	1.57914	0.0188668	1.76757	0.208329	1.11932
KIAA1257	0.0294381	-1.25596	0.0383495	1.21873	0.0361752	1.407	0.0311226	1.53067	0.0638769	1.76714	0.240542	1.15449
RPL10A	0.0315399	-1.30505	0.522054	1.08443	0.00540141	1.35144	0.0508261	1.41523	0.0468037	1.76369	0.118028	1.24623
RBM26	0.00769736	-1.30041	0.139485	1.14092	0.022129	1.35421	0.0348228	1.48367	0.0106737	1.76103	0.158804	1.18694
PCYOX1L	0.012692	-1.20216	0.123506	1.15063	0.000519449	1.46377	0.0499818	1.38324	0.0007467	1.75969	0.0584707	1.27215
C7orf44	0.0738889	-1.24286	0.0871923	1.2949	0.0529941	1.41087	0.0150796	1.4038	0.0035823	1.75362	0.0434761	1.24912
AARSD1	0.104662	-1.26776	0.187126	1.26862	0.0327793	1.3808	0.0669365	1.6083	0.0463479	1.75052	0.327774	1.08843
TSEN2	0.200895	-1.14974	0.0773781	1.31149	0.00717311	1.51926	0.000790391	1.50787	0.0072916	1.74675	0.0989404	1.15842
THG1L	0.0426906	-1.34174	0.0165662	1.08733	0.0316278	1.29354	0.0360088	1.45892	0.0310031	1.7356	0.0519977	1.18965
RAPGEF6	0.0712992	-1.3064	0.100764	1.21474	0.0235267	1.32746	0.00532771	1.58694	0.0121424	1.7342	0.353908	1.09279
DENND2D	0.0273775	-1.15242	0.157676	1.09434	0.0292906	1.48504	0.0485958	1.26114	0.0205062	1.71139	0.103115	1.35701
PYGB	0.0234919	-1.31998	0.0185665	1.17451	0.0400313	1.28432	0.0120528	1.55033	0.0078048	1.69528	0.122298	1.0935
PBX3	0.0245044	-1.49014	0.290344	1.02391	0.0763492	1.13391	0.0232141	1.52577	0.031834	1.68968	0.0786868	1.10743
MPI	0.306354	-1.0984	0.130272	1.17506	0.0109654	1.52671	0.0148889	1.29068	0.0230596	1.67693	0.0667666	1.29926
UNKNOWN	0.842157	-1.01921	0.0584532	1.26978	0.0149654	1.64278	0.104644	1.29418	0.0213694	1.67434	0.00360298	1.29375
FAM86B1	0.0698719	-1.4198	0.590147	1.02794	0.111274	1.16218	0.0468765	1.45946	0.0814181	1.65005	0.225694	1.13059
UBASH3A	0.109498	-1.12195	0.0468036	1.32853	0.00567808	1.46714	0.0582244	1.49054	0.0168249	1.64605	0.391	1.10433
LARS	0.130474	-1.09914	0.177835	1.13891	0.0476367	1.49455	0.0718209	1.25182	0.0252542	1.64272	0.0126044	1.31226
CYorf15A	0.0919349	-1.32336	0.0589027	1.10752	0.0745266	1.23532	0.028094	1.46564	0.0530192	1.63478	0.094879	1.1154
FAM86B1	0.0673443	-1.24579	0.185971	1.07343	0.0188501	1.30424	0.0743961	1.33727	0.0377369	1.62481	0.115632	1.21502
ITPKB	0.12106	-1.04749	0.53431	1.05308	0.0178985	1.54502	0.206548	1.10309	0.0098595	1.61838	0.00623089	1.46714
MRM1	0.30237	-1.10964	0.015699	1.15419	0.0076601	1.45541	0.0498077	1.28074	0.0441156	1.61499	0.0422168	1.26099
ZFAND1	0.0231679	-1.24167	0.268776	1.09472	0.0164322	1.29932	0.0302899	1.35328	0.0855467	1.61333	0.0278013	1.1869
NME1	0.0947238	-1.14437	0.131033	1.14857	0.0743885	1.40168	0.00772704	1.3144	0.0136802	1.60405	0.0658479	1.22037
TBC1D15	0.576816	-1.05878	0.745537	1.03792	0.0119893	1.5016	0.0900539	1.09893	0.0094289	1.58986	0.0215513	1.44673
NSUN5B	0.00610013	-1.14155	0.0112658	1.2194	0.00886202	1.38545	0.00148922	1.39201	0.00210726	1.58156	0.00705594	1.13617
FAM86B1	0.0488036	-1.24914	0.118335	1.02531	0.0508176	1.2562	0.0330718	1.28076	0.00935423	1.56917	0.069429	1.22519
RBM43	0.011389	-1.5121	0.879118	1.00711	0.688202	1.03506	0.0127986	1.52285	0.0389922	1.56512	0.590524	1.02775
NUP35	0.0237776	-1.27167	0.859363	1.00776	0.0104361	1.22162	0.0826854	1.28153	0.0685093	1.55349	0.0624656	1.21221
SMAP2	0.823356	-1.00484	0.193042	1.11956	0.0777268	1.54449	0.115652	1.12498	0.0128935	1.55197	0.0403904	1.37955
USP51	0.0941431	-1.21813	0.423272	1.07581	0.106703	1.26862	0.00761129	1.31047	0.00201902	1.54535	0.022995	1.17923
UNKNOWN	0.00352483	-1.28361	0.194978	1.14717	0.0118562	1.20028	0.0396568	1.47251	0.0265151	1.54069	0.513478	1.0463
NSUN5C	0.001442	-1.1193	0.0103189	1.25695	0.0289184	1.3752	0.00514927	1.4069	0.0138116	1.53926	0.318631	1.09408
LOC283398	0.0014669	-1.25255	0.29446	1.09719	0.0091343	1.20856	0.0370087	1.37429	0.0035602	1.51379	0.365871	1.10151
LOC100288322	0.293498	-1.09883	0.0605744	1.19379	0.0136962	1.36966	0.0447689	1.31297	0.00858247	1.50639	0.0319243	1.14732
ATM	0.276683	-1.0951	0.0883084	1.14912	0.0319752	1.3737	0.0388903	1.25841	0.00342113	1.50434	0.0221452	1.19543
C16orf18	0.0427573	-1.21116	0.00781918	1.23093	0.0863566	1.23343	0.0177958	1.49085	0.0516051	1.49388	0.96982	1.00203
FGD3	0.00896264	-1.20047	0.279461	1.08686	0.0729454	1.24375	0.0224963	1.30474	0.0150164	1.49309	0.0213443	1.14435
PTPN6	0.26123	-1.03909	0.0831646	1.2188	0.0227977	1.41425	0.0235193	1.26644	0.00668999	1.46954	0.044743	1.16037
SFMBT2	0.0098516	-1.23258	0.212389	1.09024	0.0128715	1.19027	0.00383894	1.3438	0.0247904	1.4671	0.181339	1.09175
NOL6	0.0937518	-1.13763	0.181946	1.08593	0.00995494	1.28632	0.00214813	1.23539	0.0290597	1.46336	0.124146	1.18453
LAS1L	0.129508	-1.18395	0.0347833	1.13626	0.0325123	1.22541	0.0224448	1.34528	0.0154049	1.45083	0.15336	1.07846
RPS3A	0.0892862	-1.19908	0.526035	1.03357	0.00424618	1.20865	0.0300389	1.23934	0.0169163	1.44928	0.066458	1.1694
JAGN1	0.29211	-1.07099	0.528335	1.06268	0.019969	1.35171	0.107919	1.13812	0.0662274	1.44768	0.0237939	1.27199
TMPO	0.0671152	-1.10563	0.150183	1.07398	0.0260752	1.30511	0.0261099	1.18742	0.0276858	1.44296	0.0206887	1.21521
AKR1B1	0.253525	-1.11633	0.0826153	1.26724	0.0775371	1.28403	0.0666653	1.41466	0.0032546	1.43341	0.276568	1.01325
NAP1L1	0.166537	-1.13797	0.303685	1.10586	0.0394525	1.25794	0.00390757	1.25844	0.00614012	1.43151	0.0629968	1.13753
SEH1L	0.0538075	-1.19351	0.320873	1.03605	0.0156756	1.19215	0.00625119	1.23654	0.00401847	1.42285	0.00156432	1.15067
NUDCD3	0.12885	-1.11078	0.0196479	1.07248	0.00347078	1.27338	0.0657212	1.19129	0.00943248	1.41444	0.00681829	1.18732
ACBD4	0.0370875	-1.23368	0.70104	1.01882	0.00449563	1.12866	0.031949	1.25689	0.0198315	1.39241	0.125309	1.10782
EEF2K	0.214055	-1.03493	0.0434838	1.33103	0.0114705	1.33999	0.0560952	1.37753	0.0143598	1.38679	0.905697	1.00673
FLJ39653	0.0112951	-1.22136	0.024004	1.05294	0.0404187	1.12959	0.00278489	1.28603	0.000144665	1.37963	0.0547421	1.07279
MED28	0.0197174	-1.15352	0.130925	1.14827	0.0816022	1.18157	0.0260367	1.32455	0.0150243	1.36296	0.11455	1.029
GPSM3	0.0733152	-1.07706	0.0779813	1.12392	0.0284745	1.24811	0.024694	1.21053	0.00674993	1.34429	0.194675	1.1105
UNKNOWN	0.0884504	-1.05458	1.79E-05	1.13406	0.0128308	1.25041	0.00865322	1.19596	0.022763	1.31866	0.0632959	1.1026
XPO6	0.59951	-1.0754	0.0580085	1.15985	0.00268093	1.30779	0.0875002	1.16859	0.000252483	1.31765	0.143574	1.12756
FCHO1	0.0098795	-1.13628	0.475791	1.03598	0.0424773	1.15332	0.0395627	1.17716	0.00709154	1.31049	0.00958702	1.11326
NUMA1	0.0696498	-1.07559	0.0224224	1.12604	0.0311959	1.2149	0.0252211	1.21116	0.00900035	1.30674	0.13473	1.07891
ANAPC13	0.120866	-1.06369	0.0259844	1.06002	0.00392157	1.21714	0.0689376	1.12753	0.0106105	1.29466	0.0120858	1.14823
NUP88	0.00749998	-1.10374	0.56126	1.00772	0.0651169	1.16589	0.0326518	1.11226	0.0232398	1.28684	0.0840899	1.15696
UNKNOWN	0.0530335	-1.12052	0.0791007	1.07351	0.0168467	1.14666	0.0317992	1.20289	0.00138552	1.28486	0.139425	1.06814
ZNF121	0.0510399	-1.12125	0.644354	1.01899	0.0418046	1.14359	0.0164138	1.24321	0.0115847	1.27127	0.0115195	1.11267
KDM6B	0.807113	-1.00232	0.0413271	1.19386	0.0322871	1.2607	0.0273192	1.19662	0.022121	1.26362	0.0127013	1.05599
EIF2B4	0.00132386	-1.11981	0.21526	1.02886	0.130781	1.08065	0.00749911	1.15213	0.0196146	1.21012	0.101844	1.05033
NDUFS2	0.102443	-1.03428	0.0172491	1.14562	0.0208366	1.15797	0.0262413	1.1849	0.0317213	1.19767	0.630508	1.01078
C20orf11	0.279635	-1.0388	0.169794	1.07686	0.0279599	1.12974	0.0142686	1.11864	0.00322435	1.17357	0.0788379	1.04911
RPL30	0.0626647	-1.0965	0.523297	1.01833	0.169897	1.05524	0.0254349	1.11659	0.0179496	1.15706	0.00278584	1.03625
MTCH2	0.128645	1.11038	0.664078	-1.01532	0.203082	-1.0413	0.033265	-1.12739	0.129591	-1.15624	0.114685	-1.02559
UNKNOWN	0.199411	1.0229	0.131298	-1.05746	0.0688115	-1.17697	0.0508035	-1.08167	0.0177089	-1.20392	0.0644261	-1.11302
RAB6C	0.01157	1.11632	0.228175	-1.03413	0.117747	-1.10375	0.0112812	-1.15442	0.0230477	-1.23214	0.0674434	-1.06732
KIAA0195	0.0887122	1.08313	0.038595	-1.03507	0.0230391	-1.14033	0.0533222	-1.12111	0.0280561	-1.23512	0.0184479	-1.10169
SETD2	0.0683449	1.07632	0.00788884	-1.14613	0.0273652	-1.14761	0.0102479	-1.23359	0.0270477	-1.23519	0.935755	-1.00129
UNKNOWN	0.0264497	1.18941	0.63458	-1.01965	0.221426	-1.05338	0.00920888	-1.21279	0.032135	-1.2529	0.414008	-1.03308
C2orf24	0.0960684	1.13199	0.24212	-1.07219	0.0299143	-1.11117	7.23E-05	-1.21371	0.0101859	-1.25784	0.276611	-1.03636
NRD1	0.0530944	1.12005	0.177283	-1.09145	0.1043	-1.12668	0.0132542	-1.22247	0.0492519	-1.26194	0.342468	-1.03229
GNA13	0.0973444	1.10656	0.0352371	-1.06994	0.036368	-1.14274	0.0304342	-1.18396	0.00395205	-1.26451	0.145508	-1.06804
COPA	0.142316	1.08262	0.178119	-1.11796	0.0372037	-1.16964	0.0143374	-1.21033	0.00119094	-1.26628	0.273974	-1.04623
SELT	0.000805071	1.03338	0.1173	-1.12907	0.0375663	-1.24775	0.0778095	-1.16675	0.0288534	-1.2894	0.000912419	-1.10512
TNIP1	0.0677934	1.22009	0.780838	-1.00908	0.0491721	-1.07948	0.021061	-1.23117	0.0234144	-1.31706	0.112296	-1.06976
CBFA2T2	0.690492	1.01012	0.0308866	-1.26099	0.0435267	-1.30865	0.0362088	-1.27376	0.0521438	-1.3219	0.194071	-1.03779
LRP10	0.00887003	1.143	0.516166	-1.03328	0.0702507	-1.15724	0.050508	-1.18104	0.0146342	-1.32273	0.0121649	-1.11996
PRKCI	0.239373	1.03698	0.0187197	-1.17094	0.0418906	-1.29117	0.00424612	-1.21425	0.04614	-1.33892	0.208662	-1.10267
BRE	0.0791128	1.18848	0.174476	-1.11117	0.0727339	-1.12934	0.00241125	-1.3206	0.00335478	-1.3422	0.519869	-1.01636
ANKS1A	0.000895985	1.1145	0.0212436	-1.14302	0.0358736	-1.21456	0.00890924	-1.27389	0.0167333	-1.35363	0.159092	-1.06259
PNPLA6	0.0247224	1.12102	0.016632	-1.12774	0.0245573	-1.21147	0.00164773	-1.26423	0.02443	-1.35808	0.255814	-1.07424
ARL6IP1	0.0140687	1.21036	0.13048	-1.06526	0.0348162	-1.12358	0.000135923	-1.28934	0.0124066	-1.35993	0.272102	-1.05475
WDFY1	0.0461087	1.09399	0.0220467	-1.24261	0.0219673	-1.25568	0.00190927	-1.35941	0.0280205	-1.3737	0.889974	-1.01052
MAPK1	0.0861133	1.06639	0.124475	-1.06814	0.00535076	-1.2914	0.104768	-1.13905	0.00171395	-1.37713	0.0472383	-1.20902
GPR153	0.115653	1.12537	0.557597	-1.03688	0.00204322	-1.23947	0.00313229	-1.16687	0.0146691	-1.39486	0.0646039	-1.19539
SHKBP1	0.0293153	1.12544	0.0778135	-1.15888	0.0722937	-1.24101	0.0211805	-1.30424	0.0324401	-1.39668	0.100321	-1.07088
MAP1LC3B2	0.453848	1.0408	0.0380165	-1.1369	0.0142837	-1.35635	0.0378788	-1.18329	0.0220519	-1.4117	0.0115325	-1.19303
PIP4K2A	0.0179092	1.04044	0.0682629	-1.06415	0.0641896	-1.3583	0.016995	-1.10719	0.00309143	-1.41323	0.00432059	-1.27642
HCN3	0.0678271	1.20889	0.104409	-1.17387	0.0989191	-1.18552	0.0164499	-1.41907	0.000273089	-1.43316	0.851694	-1.00093
GTPBP1	0.0299096	1.14716	0.0587097	-1.17451	0.00342161	-1.24974	0.035112	-1.34736	0.0129498	-1.43365	0.353228	-1.06405
TLN1	0.00675675	1.11217	0.142366	-1.10806	0.0193074	-1.29642	0.0337173	-1.23234	0.0140481	-1.44183	0.101922	-1.16999
C4orf34	0.036813	1.10508	0.499757	-1.03304	0.0474924	-1.31091	0.0236959	-1.14158	0.0292469	-1.44865	0.0102059	-1.26898
KIF3B	0.879496	1.01108	0.0740898	-1.26276	0.0091204	-1.43372	0.0121395	-1.27675	0.0648118	-1.44961	0.0668545	-1.13539
TCIRG1	0.078382	1.17283	0.0214902	-1.20594	0.0093561	-1.23958	0.0105275	-1.41437	0.00504616	-1.45383	0.29131	-1.0279
PPP3CA	0.0781967	1.22979	0.0138744	-1.12723	0.0586749	-1.185	0.0225797	-1.38626	0.0306773	-1.45731	0.287804	-1.05125
ATG4D	0.43115	1.04302	0.0584136	-1.08327	0.0533741	-1.40415	0.0377221	-1.12987	0.0103602	-1.46456	0.0550829	-1.29622
TYMP	0.069974	1.06537	0.562735	-1.04507	0.174104	-1.12441	0.0123833	-1.36661	0.0122516	-1.47037	0.0198889	-1.07592
TRAF6	0.202495	1.14545	0.249962	-1.08948	0.00784355	-1.2848	0.0130392	-1.24794	0.0212472	-1.47168	0.0660236	-1.17928
C17orf76	0.33511	1.02704	0.0118014	-1.25203	0.0866813	-1.44178	0.00870253	-1.28589	0.0185472	-1.48076	0.128245	-1.15155
WIPF1	0.0117705	1.19455	0.23225	-1.05455	0.0365596	-1.24212	0.0771729	-1.25972	0.0209501	-1.48377	0.157084	-1.17786
FAM108A1	0.0571058	1.20225	0.498615	-1.01346	0.0606645	-1.24011	0.0540167	-1.21843	0.00157525	-1.49092	0.0800167	-1.22364
MYL6	0.0300007	1.16344	0.249075	-1.15349	0.033464	-1.28277	0.0497947	-1.34201	0.00418123	-1.49243	0.130802	-1.11208
NRM	0.230581	1.07511	0.0573267	-1.18867	0.0563905	-1.40392	0.000297072	-1.27795	0.0288657	-1.50937	0.123545	-1.18108
SPCS2	0.117832	1.08128	0.00554563	-1.14168	0.037835	-1.40535	0.00885263	-1.23448	0.083024	-1.51958	0.0976721	-1.23095
GGT3P	0.238645	1.09469	0.00568536	-1.39152	0.0354689	-1.39155	0.0149074	-1.52329	0.0126337	-1.52332	0.999776	-1.00002
UNKNOWN	0.020369	1.34104	0.316203	-1.08109	0.00645017	-1.13885	0.025731	-1.44978	0.0152757	-1.52724	0.487177	-1.05343
GALK1	0.258655	1.05499	0.0316866	-1.13023	0.0271013	-1.44886	0.0577221	-1.19238	0.0254485	-1.52852	0.0262992	-1.28191
CLIP4	0.277648	1.05925	0.448103	-1.06658	0.04235	-1.4497	0.189857	-1.12978	0.0248248	-1.5356	0.00125238	-1.35921
ARL4C	0.0602651	1.14101	0.0176121	-1.2194	0.0171406	-1.35316	0.0224853	-1.39135	0.00450954	-1.54511	0.101739	-1.11051
YWHAQ	0.151009	1.14785	0.0823251	-1.14918	0.0501326	-1.35441	0.0861352	-1.31908	0.0154763	-1.55466	0.0601775	-1.17859
LPCAT4	0.0865101	1.23456	0.100666	-1.1	0.026928	-1.26171	0.0120019	-1.35802	0.00497013	-1.55765	0.0118094	-1.147
ATG2A	0.0220061	1.24064	0.135856	-1.0953	0.0231172	-1.26128	0.000293133	-1.35887	0.0103101	-1.5648	0.00878386	-1.15154
IDS	0.0306625	1.16934	0.0232766	-1.18879	0.00335504	-1.34416	0.00960105	-1.39011	0.00684421	-1.57178	0.0566614	-1.13069
GGT3P	0.177617	1.24887	0.00437438	-1.40074	0.0372827	-1.40077	0.00776604	-1.57565	0.0109893	-1.57568	0.999776	-1.00002
TBC1D5	0.155118	1.17603	0.139129	-1.1665	0.0197612	-1.34169	0.0301597	-1.37184	0.00731319	-1.57787	0.0434133	-1.15019
DMPK	0.137842	1.15891	0.00327725	-1.14356	0.0368592	-1.37171	0.0550426	-1.32529	0.0224607	-1.58969	0.110538	-1.19951
ST6GALNAC6	0.120895	1.17023	0.0227554	-1.16759	0.0139323	-1.35862	0.0653798	-1.36635	0.0240301	-1.58991	0.0734405	-1.16361
REEP5	0.15843	1.131	0.0288801	-1.25577	0.00129375	-1.4073	0.016626	-1.42027	0.0188534	-1.59166	0.099306	-1.12067
ABHD6	0.122414	1.18996	0.232403	-1.0388	0.0618277	-1.34296	0.0458319	-1.3613	0.00746696	-1.59806	0.060296	-1.2928
KIAA0247	0.0510436	1.20313	0.0179725	-1.14255	0.0294986	-1.32837	0.0164407	-1.37463	0.0063112	-1.5982	0.0489017	-1.16264
EMB	0.0539265	1.14865	0.0267222	-1.32152	0.0391293	-1.39236	0.000963274	-1.51796	0.0066431	-1.59933	0.227713	-1.0536
TSEN54	0.0202408	1.34462	0.193683	-1.14135	0.0288539	-1.19062	0.012805	-1.53467	0.0557922	-1.60093	0.648198	-1.04317
SPIRE2	0.0865815	1.2205	0.652614	-1.02659	0.0126693	-1.3232	0.13642	-1.25294	0.0192641	-1.61496	0.0101593	-1.28893
PIWIL4	0.11349	1.22653	0.0864911	-1.1876	0.00452216	-1.32109	0.0663451	-1.45662	0.0199433	-1.62035	0.122722	-1.11241
ZSCAN22	0.255105	1.12146	0.0296714	-1.12739	0.00196066	-1.45582	0.05423	-1.26432	0.0147404	-1.63264	0.0791766	-1.29132
ICAM1	0.729341	1.03082	0.0152121	-1.19654	0.0190546	-1.36561	0.0138004	-1.63881	0.0640469	-1.63887	0.0640469	-1.25525
CHD9	0.354395	1.07645	0.0166952	-1.25135	0.0153289	-1.5292	0.0432084	-1.34702	0.016285	-1.64612	0.0158635	-1.22205
LPIN2	0.0148388	1.17019	0.26882	-1.08601	0.0314522	-1.4285	0.0768569	-1.27084	0.0149033	-1.67162	0.0499377	-1.31536
SETD8	0.0105899	1.3259	0.163475	-1.06116	0.0513652	-1.27027	0.0264877	-1.40699	0.0454984	-1.68426	0.153782	-1.19706
ZC3H12A	0.0296837	1.25214	0.0860022	-1.11206	0.110174	-1.35423	0.00233409	-1.39246	0.0173345	-1.69569	0.131163	-1.21777
ULBP3	0.062257	1.00244	0.210791	-1.18317	0.00574013	-1.70471	0.225556	-1.18605	0.000558743	-1.70887	0.0513431	-1.4408
IL15RA	0.365427	1.0702	0.34626	-1.06801	0.0390035	-1.60442	0.0569772	-1.34299	0.0249783	-1.71706	0.0688848	-1.50225
HLA-DQB2	0.0178165	1.06208	0.00660072	-1.51096	0.0353426	-1.64079	0.00723599	-1.60477	0.0266306	-1.74265	0.473657	-1.08592
LCP1	0.0453275	1.15885	0.019451	-1.24393	0.00593911	-1.50511	0.0166161	-1.44153	0.0129856	-1.7442	0.0375471	-1.20997
CHP	0.00517353	1.45287	0.181586	-1.08401	0.0224109	-1.20406	0.0122803	-1.57492	0.000386152	-1.74935	0.218516	-1.11075
RUNX3	0.0141008	1.52894	0.526364	-1.03953	0.0183006	-1.14724	0.0083187	-1.58938	0.0146198	-1.75406	0.286071	-1.10361
TMEM43	0.00514677	1.27954	0.11928	-1.14867	0.050347	-1.38466	0.0136084	-1.46977	0.0138644	-1.77173	0.0151238	-1.20545
REEP4	0.13379	1.11302	0.226846	-1.06023	0.039794	-1.59331	0.156766	-1.18006	0.0155556	-1.77338	0.0639484	-1.50279

Gene												
MEF2D	0.0547906	1.27143	0.0439317	-1.1685	0.0285288	-1.39695	0.00602361	-1.48566	0.0169559	-1.77611	0.0672286	-1.1955
ABL1	0.16865	1.10264	0.48625	-1.05172	0.0111589	-1.61152	0.0344437	-1.15967	0.0271034	-1.77693	0.0596578	-1.53226
TMEM39A	0.369011	1.07442	0.0163998	-1.34569	0.0143044	-1.65698	0.0554848	-1.44583	0.00728742	-1.78029	0.171365	-1.23133
PCBP4	0.375289	1.11049	0.0666813	-1.31236	0.062673	-1.60961	0.00270138	-1.45736	0.0123739	-1.78745	0.0937658	-1.2265
PLCD1	0.228811	1.15518	0.105434	-1.2003	0.0371205	-1.55309	0.00537472	-1.38657	0.0151729	-1.7941	0.0434877	-1.29391
CHST12	0.0404778	1.16006	0.934424	-1.00845	0.00234306	-1.55303	0.218216	-1.16986	0.000476112	-1.80162	0.045234	-1.54003
RASGRP1	0.00692484	1.34493	0.00515077	-1.23954	0.0505017	-1.34003	0.000788619	-1.66709	0.021035	-1.80225	0.449247	-1.08108
UNKNOWN	0.0300463	1.43458	0.195179	-1.1703	0.172892	-1.25728	0.0161877	-1.6789	0.0617304	-1.80367	0.473528	-1.07432
C1orf58	0.0541211	1.20101	0.0301835	-1.23113	0.0386898	-1.51119	0.00174346	-1.4786	0.0199459	-1.81495	0.100193	-1.22748
C11orf63	0.827048	1.01234	0.0372193	-1.44819	0.0468034	-1.80221	0.0139038	-1.46607	0.0202144	-1.82446	0.184711	-1.24446
C6orf129	0.1708	1.25962	0.11501	-1.34259	0.0255032	-1.45066	0.0140629	-1.69114	0.00683104	-1.82727	0.342074	-1.0805
FHOD1	0.029156	1.31533	0.164558	-1.16104	0.0203359	-1.38925	0.0355083	-1.52715	0.0071360 6	-1.82733	0.167129	-1.19656
DKFZp434F142	0.197926	1.08415	0.78759	-1.01255	0.0423599	-1.68779	0.156307	-1.09775	0.173528	-1.82981	0.0529916	-1.66688
PIK3CG	0.0311931	1.05919	0.142529	-1.10652	0.018615	-1.73624	0.0679118	-1.17201	0.012492	-1.839	0.0527732	-1.5691
ITPR3	0.0498991	1.32188	0.497692	-1.05391	0.00479873	-1.39212	0.0214746	-1.39314	0.00527489	-1.84022	0.0423981	-1.32092
BTG3	0.0762927	1.23261	0.00993174	-1.20075	0.0131925	-1.49325	0.0182573	-1.48006	0.024093	-1.8406	0.0374539	-1.2436
C4orf50	0.226257	1.1125	0.089308	-1.34468	0.00462676	-1.66499	0.0652042	-1.49596	0.0115722	-1.85231	0.0710691	-1.2382
CNNM3	0.115885	1.11635	0.00130444	-1.35921	0.0142581	-1.66446	0.00544135	-1.51735	0.0110087	-1.85811	0.0577696	-1.22457
IFI16	0.0044787	1.55262	0.106723	-1.06326	0.230472	-1.19684	0.00125638	-1.65084	0.0156721	-1.85824	0.297146	-1.12563
AK1	0.0142765	1.21213	0.149483	-1.22308	0.0332424	-1.53664	0.0411216	-1.48253	0.0167743	-1.8626	0.011879	-1.25637
CDK2AP1	0.0251922	1.33112	0.264641	-1.15028	0.0129739	-1.41296	0.0586353	-1.53117	0.0179154	-1.88083	0.178	-1.22836
REL	0.0412599	1.44971	0.270209	-1.05442	0.0276845	-1.29986	0.0320058	-1.5286	0.0353661	-1.88441	0.0804979	-1.23277
BCL2L1	0.206885	1.16956	0.0198763	-1.10216	0.0116371	-1.61141	0.0766558	-1.28903	0.0311139	-1.88464	0.027491	-1.46205
MVD	0.0532717	1.51035	0.166338	-1.15524	0.0332314	-1.25848	0.00791556	-1.74481	0.0191582	-1.90075	0.404951	-1.08937
TTC39C	0.0265933	1.41477	0.000888218	-1.31713	0.115795	-1.34546	0.0110305	-1.86344	0.00746175	-1.90352	0.874559	-1.02151
PLEKHA2	0.0137739	1.46982	0.288785	-1.1049	0.104986	-1.29594	0.0392208	-1.62401	0.0659077	-1.9048	0.309326	-1.1729
FKBP11	0.325273	1.12428	0.493814	-1.097	0.0220093	-1.70477	0.0134193	-1.23334	0.000271361	-1.91664	0.00621422	-1.55403
EML4	0.018549	1.53652	0.0604149	-1.16054	0.101847	-1.24761	0.0116336	-1.7832	0.00906559	-1.91698	0.244989	-1.07502
FANCA	0.261405	1.1806	0.0144891	-1.36411	0.0161141	-1.62692	0.0768486	-1.61046	0.0118582	-1.92074	0.16425	-1.19266
CDCA4	0.0392137	1.38048	0.0172784	-1.18228	0.0540986	-1.40298	0.019411	-1.63211	0.00750536	-1.93678	0.129121	-1.18667
FUCA2	0.00554954	1.41298	0.133867	-1.3095	0.0213634	-1.37267	0.0389203	-1.8503	0.00464724	-1.93955	0.644946	-1.04824
MFSD10	0.026267	1.50706	0.557483	-1.07613	0.101058	-1.29383	0.00597339	-1.62179	0.0082701	-1.94988	0.11642	-1.2023
TBCD	0.0171678	1.5519	0.100909	-1.22319	0.173756	-1.27032	0.0215127	-1.89827	0.00889054	-1.9714	0.780315	-1.03852
CAPN2	0.0897151	1.25252	0.0768447	-1.21681	0.0592623	-1.57567	0.0171611	-1.52407	0.0120135	-1.97356	0.0497683	-1.29492
IQGAP1	0.0452517	1.39317	0.0173026	-1.18137	0.0852102	-1.42972	0.0171654	-1.64585	0.0203016	-1.99184	0.16662	-1.21022
CHST11	0.00364439	1.38419	0.0286141	-1.26324	0.0146163	-1.4403	0.00345969	-1.74857	0.00290503	-1.99364	0.00111747	-1.4016
PIK3R1	0.00626589	1.70051	0.0254635	-1.16076	0.318316	-1.17487	0.0105102	-1.97388	0.0185155	-1.99788	0.914655	-1.01216
MYO5A	0.00162312	1.26495	0.0191565	-1.2942	0.0146387	-1.59094	0.0315095	-1.6371	0.00561725	-2.01246	0.0830676	-1.22928
KIR2DL3	0.0344316	1.384	0.119448	-1.12227	0.0788495	-1.45443	0.0109757	-1.55322	0.0117867	-2.01293	0.162876	-1.29597
DLG3	0.0246884	1.17657	0.17277	-1.26685	0.0463019	-1.71456	0.0493997	-1.49054	0.018 1093	-2.0173	0.00806612	-1.3534
MXD4	0.0961032	1.17643	0.0158364	-1.16811	0.0698693	-1.72865	0.0152805	-1.3742	0.0462567	-2.03363	0.0162773	-1.47986
RALGDS	0.0094308 7	1.29706	0.00567573	-1.20218	0.0380622	-1.57367	0.00575838	-1.55931	0.0205765	-2.04116	0.0373998	-1.30901
S1PR5	0.0890655	1.13316	0.711667	-1.02291	0.0204438	-1.80624	0.0671071	-1.15912	0.00785194	-2.04676	0.0316258	-1.76579
WSB2	0.00812129	1.30145	0.0272323	-1.36804	0.0603407	-1.5904	0.0112685	-1.78044	0.0214745	-2.06983	0.231719	-1.16254
CCR3	0.332257	1.13681	0.122851	-1.40905	0.00813925	-1.82095	0.00879885	-1.60183	0.0045299	-2.07008	0.100496	-1.29232
TIPARP	0.0295737	1.66499	0.0415944	-1.11666	0.137043	-1.24355	0.0148815	-1.85923	0.0171911	-2.07051	0.255251	-1.11364
SP140	0.00519846	1.64008	0.352015	-1.1464	0.0921795	-1.2886	0.031679	-1.87856	0.0155737	-2.0806	0.157878	-1.10755
CD151	0.0570445	1.18701	0.196387	-1.12343	0.0140896	-1.75447	0.00505127	-1.33353	0.0209823	-2.08258	0.0679746	-1.56171
SOX13	0.00288035	1.33478	0.324006	-1.17226	0.0229908	-1.56082	0.070436	-1.56471	0.0054786	-2.08335	0.149769	-1.33146
KRTAP5-2	0.0992985	1.30763	0.12593	-1.42248	0.0356102	-1.60471	0.0319261	-1.86009	0.00578719	-2.09837	0.179637	-1.1281
NF1	0.0647327	1.18928	0.0124893	-1.31741	0.0249249	-1.76785	0.00576771	-1.56677	0.0257146	-2.10247	0.13784	-1.34191
PEA15	0.17974	1.30306	0.0413029	-1.38624	0.0237834	-1.62447	0.0422099	-1.80635	0.00968819	-2.11679	0.28932	-1.17186
PARP8	0.143276	1.24551	0.263114	-1.11876	0.0293839	-1.70519	0.0108165	-1.39342	0.0157726	-2.12383	0.0181473	-1.52418
RNF166	0.00539847	1.48109	0.085839	-1.19568	0.0376137	-1.43976	0.0023905	-1.77091	0.00189272	-2.13242	0.0903178	-1.20414
UEVLD	0.0951844	1.18414	0.0722401	-1.15707	0.00660976	-1.80231	0.0734215	-1.37013	0.000178343	-2.13418	0.0345749	-1.55765
LIMK1	0.0745953	1.41077	0.851224	-1.02373	0.0436056	-1.52128	0.00848302	-1.44425	0.00142858	-2.14618	0.00890402	-1.48602
CACNB1	0.00735027	1.56098	0.0135597	-1.07902	0.0282874	-1.37941	0.0058806	-1.68432	0.0106795	-2.15324	0.0347732	-1.2784
TMX4	0.0974029	1.09757	0.0437585	-1.21361	0.00646865	-1.97239	0.0230011	-1.33202	0.0121132	-2.16483	0.0210196	-1.62522
SLC6A6	0.000780284	1.1857	0.0805415	-1.29033	0.00678554	-1.82689	0.0334587	-1.52995	0.00478215	-2.16615	0.0688227	-1.41583
LBA1	0.0544299	1.36006	0.161228	-1.12122	0.00389376	-1.59278	0.0319229	-1.52492	0.0152205	-2.16629	0.0483309	-1.42059
SV2A	0.0274877	1.47538	0.0383476	-1.43126	0.077948	-1.47277	0.0263989	-2.11166	0.00719354	-2.17289	0.890612	-1.029
LLGL2	0.0480926	1.22241	0.0383309	-1.29532	0.076379	-1.78236	0.00221529	-1.58341	0.0263367	-2.17878	0.112905	-1.37601
IRF1	0.0804721	1.23169	0.171815	-1.16301	0.0738973	-1.77748	0.00290708	-1.43246	0.0167956	-2.18931	0.0475641	-1.52835
PPP2R5C	0.0591314	1.74155	0.00569264	-1.1919	0.000673042	-1.26555	0.0357263	-2.07576	0.0280228	-2.20402	0.0574855	-1.06179
CD99	0.0165087	1.74156	0.335832	-1.07472	0.108097	-1.26798	0.0176969	-1.8717	0.0369249	-2.20827	0.244654	-1.17982
RAPGEF1	0.0440179	1.70706	0.472712	-1.09109	0.121068	-1.30406	0.00129412	-1.86256	0.0308707	-2.2261	0.280639	-1.19518
PPP4R1	0.16738	1.18202	0.321216	-1.22633	0.0320873	-1.88631	0.0695084	-1.44954	0.0100354	-2.22964	0.0101488	-1.53818
OSBPL7	0.256352	1.17732	0.192247	-1.16298	0.00158924	-1.8961	0.064702	-1.3692	0.00946996	-2.23231	0.0156358	-1.63037
FOXP4	0.115429	1.40055	0.0242269	-1.19055	0.000312312	-1.60758	0.0407799	-1.66743	0.0237646	-2.2515	0.0130647	-1.35028
SLA2	0.72183	1.03064	0.038053	-1.26861	0.0314722	-2.21594	0.0105719	-1.30748	0.0158349	-2.28384	0.0358996	-1.74675
TBC1D2B	0.271235	1.10663	0.0728759	-1.3252	0.0085593	-2.07807	0.114332	-1.4665	0.0240244	-2.29964	0.000936033	-1.56812
ST7	0.316896	1.22092	0.0076508	-1.35155	0.0408201	-1.89489	0.0613143	-1.65013	0.000897951	-2.31351	0.0989616	-1.40202
CD99	0.0101497	1.95959	0.964345	-1.00414	0.0853132	-1.18097	0.0055012	-1.96771	0.0168847	-2.31421	0.248979	-1.17609
JAZF1	0.325839	1.13274	0.00591736	-1.35885	0.0323861	-2.05431	0.0668689	-1.53923	0.0102284	-2.327	0.118112	-1.5118
GGA2	0.0118854	1.28946	0.012195	-1.47466	0.0139449	-1.80511	0.00104566	-1.90152	0.00771996	-2.32761	0.166829	-1.22408
PI4K2A	0.00589594	1.63088	0.494224	-1.03051	0.0509999	-1.43295	0.0153142	-1.68063	0.00342686	-2.33697	0.0816519	-1.39053
CD68	0.0164411	1.57702	0.222783	-1.21259	0.0140882	-1.498	0.0578473	-1.91227	0.000668586	-2.36237	0.312938	-1.23538
LPGAT1	0.057912	1.42822	0.0314823	-1.25548	0.0159236	-1.66328	0.0088967	-1.7931	0.0201251	-2.37553	0.0582754	-1.32482
STX11	0.0221775	1.76515	0.360885	-1.14477	0.0110589	-1.34848	0.018208	-2.02069	0.0105653	-2.38027	0.365884	-1.17795
ZAK	0.0427357	1.53141	0.216501	-1.18634	0.0509694	-1.55894	0.00644021	-1.81677	0.00970673	-2.38737	0.172399	-1.31407
FAM160B1	0.0304377	1.28752	0.00165893	-1.57125	0.0535221	-1.86296	0.00195671	-2.02302	0.0295623	-2.39859	0.347706	-1.18565
RORA	0.442044	1.13692	0.142527	-1.11863	0.0315248	-2.12025	0.126733	-1.27179	0.00050356 4	-2.41055	0.0242428	-1.8954
C8orf80	0.132109	1.24824	0.00302356	-1.92184	0.0468121	-1.93987	0.0096497	-2.38891	0.0297415	-2.42142	0.941482	-1.00938
APOBEC3F	0.0343232	1.37017	0.477143	-1.07084	0.0138473	-1.77513	0.0250664	-1.46723	0.0118679	-2.43223	0.0443705	-1.6577
TGFBI	0.500172	1.04934	0.0278614	-1.45794	0.0166495	-2.32591	0.0695016	-1.52987	0.00329887	-2.44066	0.107819	-1.59534
DNAJC1	0.00372474	1.35392	0.0220099	-1.2568	0.0088751	-1.80865	0.00809715	-1.70161	0.00580035	-2.44877	0.00370724	-1.43909
GPR114	0.102494	1.07445	0.143813	-1.16819	0.0267461	-2.2861	0.0353588	-1.25517	0.0289143	-2.45631	0.0783241	-1.95695
LRP8	0.0162024	1.72418	0.077867	-1.2301	0.0569478	-1.42652	0.00205279	-2.12092	0.00225768	-2.45958	0.0320529	-1.15967
CD69	0.0175095	1.64842	0.13415	-1.13244	0.0845976	-1.50951	0.0302926	-1.86674	0.0425085	-2.48832	0.108734	-1.33297
CMIP	0.0769908	1.47745	0.206157	-1.09228	0.0336688	-1.68756	0.02153	-1.61379	0.00184429	-2.49328	0.0133209	-1.54499
DNAJC1	0.0372563	1.2115	0.108359	-1.36009	0.00380923	-2.05918	0.0406645	-1.64775	0.00778579	-2.49469	0.10314	-1.514
TGFB1	0.0101953	1.33622	0.0469948	-1.46456	0.0207056	-1.86951	0.0135503	-1.95696	0.000145714	-2.49806	0.112797	-1.2765
FLJ00049	0.0354059	1.21998	0.0639925	-1.0519	0.0445483	-2.04988	0.0130105	-1.2833	0.0173767	-2.50081	0.0472665	-1.94873
ANTXR2	0.187654	1.28496	0.188168	-1.31109	0.051597	-1.96055	0.00750156	-1.68469	0.0144343	-2.51923	0.0273915	-1.49536
NR4A3	0.113708	1.25927	0.00472647	-1.41621	0.0272886	-2.01691	0.0281152	-1.78339	0.00798553	-2.53982	0.129834	-1.42416
IL12RB1	0.106134	1.17085	0.0707387	-1.37897	0.0226994	-2.17079	0.0333504	-1.61456	0.0127399	-2.54166	0.00489258	-1.57422
NTNG2	0.0179063	1.57058	0.95078	-0.00922	0.0297243	-1.63427	0.0564193	-1.58507	0.0148973	-2.56675	0.0326971	-1.61933
RDX	0.0367305	1.46557	0.0532985	-1.33982	0.0141902	-1.75633	0.0350974	-1.96361	0.0085556	-2.57403	0.1843	-1.31086
MLLT4	0.0627169	1.32803	0.201878	-1.1895	0.0143674	-1.95604	0.0730893	-1.57968	0.0255399	-2.59767	0.0519082	-1.64443
GPRIN3	0.00580303	2.06225	0.202811	-1.13832	0.221458	-1.26223	0.00639582	-2.34749	0.0159104	-2.60303	0.428485	-1.10885
UNKNOWN	0.816073	1.02227	0.139586	-1.19767	0.022804	-2.57868	0.285419	-1.22434	0.0206867	-2.63611	0.0225527	-2.15309
ADCY9	0.0918301	1.27208	0.0139408	-1.11972	0.0107422	-2.0838	0.0321401	-1.42438	0.00106477	-2.65077	0.010489	-1.861
CD300A	0.0178617	1.58191	0.236105	-1.04733	0.0057444	-1.694	0.0046391 5	-1.65678	0.0059703	-2.67976	0.0448589	-1.61745
SCD5	0.0286848	1.49818	0.79484	-1.03116	0.0163297	-1.79293	0.0405694	-1.54487	0.00152224	-2.68613	0.0086 9013	-1.73875
ABI3	0.773033	1.01435	0.0149776	-1.53461	0.0245948	-2.65677	0.027684	-1.55663	0.000 2015	-2.69488	0.0441737	-1.73123
PTPN22	0.210207	1.22621	0.197651	-1.30247	0.0294579	-2.19815	0.00940798	-1.5971	0.00927075	-2.69538	0.0145564	-1.68767
LGALS1	0.0603649	1.39972	0.0636344	-1.38221	0.0276974	-1.9329	0.0259016	-1.93471	0.00273996	-2.70552	0.0631628	-1.39841
SYTL3	0.0576868	1.58764	0.0467381	-1.14727	0.0012057	-1.71087	0.00437217	-2.23979	0.0147821	-2.71625	0.130961	-1.21273
BMPR1A	0.0225153	1.60421	0.00533498	-1.38024	0.00421359	-1.71623	0.0136516	-2.2142	0.00952164	-2.7532	0.00489952	-1.24343
TBK1	0.0479723	1.76815	0.00700812	-1.19085	0.0396377	-1.57055	0.0385766	-2.1056	0.0411339	-2.77697	0.0509198	-1.31885
PMAIP1	0.018887	1.8581	0.142312	-1.23933	0.0661267	-1.50157	0.004014	-2.3028	0.0164138	-2.79007	0.383916	-1.2116
RASGEF1A	0.0703026	1.28329	0.100166	-1.52339	0.0134255	-2.19079	0.0121121	-1.95495	0.00515444	-2.81142	0.0846649	-1.4381
GCNT1	0.0147501	1.9906	0.0128768	-1.07464	0.118838	-1.41263	0.0109778	-2.13918	0.00461388	-2.81199	0.171602	-1.31452
GABARAPL1	0.0177565	1.82572	0.171827	-1.4184	0.0289032	-1.55873	0.0604242	-2.58961	0.021497	-2.8458	0.405057	-1.09893
STOM	0.000566155	1.45853	0.0078489	-1.28709	0.0718422	-1.98094	0.00240814	-1.87725	0.0310905	-2.88026	0.16512	-1.53909
CALHM2	0.0158978	1.95088	0.250143	-1.14265	0.0299925	-1.48338	0.0188927	-2.22917	0.0100603	-2.89389	0.0298653	-1.29819
ABCA2	0.0172253	1.54477	0.116709	-1.12686	0.00277156	-1.89043	0.0511178	-1.74074	0.000967171	-2.92028	0.000767525	-1.67761
PPP1R16B	0.129842	1.16973	0.0137779	-2.03817	0.0210405	-2.49887	0.0263138	-2.3841	0.0294049	-2.92299	0.069058	-1.22604
SYNE2	0.0165643	2.29449	0.187954	-1.11332	0.0562972	-1.28381	0.0850866	-2.5545	0.0179987	-2.94569	0.147815	-1.15314
PAM	0.0199218	1.75101	0.0916121	-1.29998	0.0085671	-1.6828	0.0016 0009	-2.27628	0.00563612	-2.9466	0.12893	-1.29448
C12orf75	0.0745106	1.21953	0.0137337	-1.16292	0.038731	-2.41828	0.0126478	-1.41821	0.0163601	-2.94916	0.0470507	-2.0795
CLCF1	0.00491813	1.7657	0.321312	-1.21508	0.0162762	-1.6778	0.0379304	-2.14546	0.00403981	-2.9625	0.062625	-1.38082
MXRA7	0.00533035	1.46491	0.0653788	-1.25857	0.00732335	-2.02843	0.0202662	-1.8437	0.00551716	-2.97148	0.00429769	-1.61169
APOBEC3C	0.0191153	1.50338	0.00774493	-1.26815	0.0298401	-1.98939	0.0127412	-1.90652	0.0202692	-2.99082	0.047087	-1.56873
CLSTN3	0.0089061 4	1.53354	0.0764763	-1.34947	0.0172097	-1.99453	0.00422362	-2.06946	0.00209357	-3.05869	0.000126991	-1.47801
ACOT9	0.002024	1.95583	0.332042	-1.10728	0.0100305	-1.57221	0.00444024	-2.16565	0.00101711	-3.07499	0.0458664	-1.41989
HIP1	0.0156207	1.4966	0.0143129	-1.25073	0.0353102	-2.06284	0.00156683	-1.87184	0.0156475	-3.08725	0.0736134	-1.64931
LAG3	0.0274733	2.15172	0.0508249	-1.0915	0.0258941	-1.45896	0.0277589	-2.34861	0.0101854	-3.13929	0.0393154	-1.33666
TNFAIP3	0.0205717	2.38706	0.101178	-1.09845	0.0860856	-1.32048	0.0251914	-2.62206	0.0266293	-3.15207	0.0914827	-1.20214
BMPR1A	0.0213676	1.7822	0.073292	-1.3352	0.0252175	-1.78118	0.000144383	-2.3796	0.00256272	-3.17442	0.0374275	-1.33401
DCBLD1	0.0101759	1.96776	0.289785	-1.05735	0.0615913	-1.61371	0.0031025	-2.08061	0.0204186	-3.17539	0.0805522	-1.52618
KLF6	0.0197142	2.16284	0.146202	-1.2549	0.13903	-1.47638	0.0332904	-2.71414	0.0115028	-3.19318	0.441978	-1.1765
CACNB3	0.0702367	1.39541	0.0105111	-1.68772	0.00130565	-2.30777	0.0142975	-2.35507	0.00316527	-3.2203	0.0236163	-1.36739
RNF19A	0.00487637	1.79001	0.0864489	-1.46405	0.00646492	-1.80421	0.00759114	-2.62067	0.00135449	-3.22956	0.132191	-1.23234
RAB27A	0.0120287	1.78758	0.0435844	-1.28704	0.0453868	-1.81193	0.00639162	-2.30069	0.00578785	-3.23896	0.0605235	-1.40782
FADS3	0.0712811	1.77896	0.0451474	-1.67029	0.0310213	-1.82114	0.0358407	-2.97137	0.00214633	-3.23973	0.660151	-1.09031
DLG5	0.313656	1.02593	0.131117	-1.19839	0.0129645	-3.1692	0.15443	-1.22947	0.0176436	-3.25139	0.0398819	-2.64455
APOBEC3D	0.049161	1.46258	0.0203168	-1.62884	0.0092801 8	-2.23181	0.0219252	-2.38231	0.018013	-3.2642	0.155134	-1.37018
TNFRSF1B	0.020233	1.96224	0.0331211	-1.3886	0.0393683	-1.71477	0.00332439	-2.72476	0.0201941	-3.36479	0.213582	-1.23489
ACTN4	0.0341505	1.51065	0.0431144	-1.43993	0.0280679	-2.25365	0.000328651	-2.17523	0.00792453	-3.40448	0.042838	-1.56511
TBKBP1	0.00293856	1.80721	0.501156	-1.09357	0.0241556	-1.9014	0.0160235	-1.97631	0.00719592	-3.43623	0.0995403	-1.73871
ATXN1	0.0128552	2.294	0.0129812	-1.3603	0.0509	-1.50375	0.0125204	-3.12055	0.0212027	-3.44961	0.343761	-1.10545
ARAP2	0.0314346	2.19878	0.127249	-1.27426	0.00212175	-1.57524	0.0438966	-2.80162	0.0155901	-3.4636	0.206277	-1.2362
ARHGEF12	0.0608746	1.73988	0.0465761	-1.20907	0.0511663	-1.99285	0.026781	-2.10363	0.0258015	-3.46731	0.125773	-1.64825
FAM53B	0.0977467	1.26095	0.00335127	-1.71521	0.0167665	-2.75586	0.00374111	-2.16316	0.00468793	-3.47499	0.051909	-1.60847
MAN1A1	0.0176308	1.34504	0.117549	-1.16881	0.00675898	-2.58619	0.00188692	-1.5721	0.00121487	-3.47852	0.00220774	-2.21266
FAM38A	0.0236923	2.03802	0.0118389	-1.57233	0.0115776	-1.71663	0.00567471	-3.20444	0.00197569	-3.49892	0.260166	-1.0919
PLXNC1	0.00245941	1.25822	0.236843	-1.17826	0.0309226	-2.78589	0.0572697	-1.48251	0.0223987	-3.50526	0.0877816	-2.3644
GRLF1	0.0819647	1.31911	0.00823955	-1.55666	0.0164551	-2.69819	0.0130592	-2.0534	0.00124872	-3.5592	0.0453037	-1.73332

Gene											
SRGN	0.0248758	2.25243	0.123094	-1.51769	0.110011	-1.60339	0.0224224	-3.41849	0.0363116	-3.61151	0.626023	-1.05646
HLA-DRB5	0.0640004	1.34829	0.0563354	-2.24616	0.0139361	-2.70036	0.0576378	-3.02848	0.0180474	-3.64087	0.447112	-1.20221
B4GALT5	0.264966	1.23818	0.183661	-1.1777	0.0174164	-2.9661	0.0228849	-1.45821	0.0011084	-3.67257	0.00662494	-2.51855
WIPI1	0.0265406	1.54837	0.0694513	-1.31069	0.0125226	-2.37265	0.01252	-2.02944	0.00330716	-3.67373	0.0557744	-1.81022
PTPRJ	0.0229142	2.38468	0.00282552	-1.28106	0.026266	-1.55175	0.0137746	-3.0549	0.014488	-3.70043	0.0856495	-1.21131
SLFN11	0.00891487	1.35781	0.00878864	-2.61708	0.013494	-2.72891	0.00842128	-3.55351	0.012338	-3.70535	0.577454	-1.04273
DUSP2	0.00432637	1.76475	0.105221	-1.79914	0.0241188	-2.13124	0.0263598	-3.17504	0.00572672	-3.76111	0.203041	-1.18458
UNKNOWN	0.282598	1.29783	0.708101	-1.03054	0.0132068	-2.89842	0.18418	-1.33746	0.00369006	-3.76165	0.0140347	-2.81253
ANXA5	0.0487483	1.47546	0.154798	-1.62814	0.017857	-2.55025	0.0522839	-2.40225	0.00942268	-3.76278	0.0388849	-1.56636
AHNAK	0.00403359	2.09702	0.0493339	-1.36318	0.0374452	-1.79678	0.000701818	-2.85862	0.00751324	-3.76788	0.121815	-1.31808
NEO1	0.580734	1.0506	0.0347567	-1.54764	0.0433686	-3.63842	0.0150342	-1.62594	0.0338164	-3.82252	0.0676237	-2.35095
CLIC1	0.00333307	1.87803	0.195357	-1.42148	0.0225686	-2.04491	0.0221552	-2.66959	0.00300364	-3.84041	0.0665079	-1.43858
EIF2C4	0.0545947	1.3672	0.00564822	-1.73584	0.00482292	-2.83673	0.00512464	-2.37324	0.0118463	-3.87839	0.0399438	-1.63421
MAP3K5	0.0223524	2.21064	0.209135	-1.15874	0.00591493	-1.77036	0.00180736	-2.56157	0.00911751	-3.91363	0.0457219	-1.52783
IL2RB	0.00672448	2.80796	0.150478	-1.24565	0.328279	-1.39929	0.00348626	-3.49773	0.0165061	-3.92916	0.652349	-1.12334
PLEKHG1	0.00162663	1.35011	0.0279663	-1.70488	0.0253297	-2.97807	0.0127015	-2.30177	0.0145521	-4.02071	0.167698	-1.74679
MYO6	0.102911	1.45378	0.00636251	-1.62583	0.0227769	-2.76857	0.0225162	-2.3636	0.0287395	-4.0249	0.0508186	-1.70287
GTDC1	0.04092	1.50131	0.0280519	-1.26017	0.0437522	-2.68147	0.0290615	-1.89191	0.0230952	-4.02571	0.0946503	-2.12786
EDARADD	0.00997853	3.09673	0.286824	-1.2297	0.489998	-1.31283	0.00297583	-3.80806	0.0224433	-4.06549	0.806947	-1.0676
GALM	0.00508033	1.7292	0.00507968	-1.87951	0.0323659	-2.43578	0.00504867	-3.25006	0.0152853	-4.21195	0.25433	-1.29596
TARP	0.515606	1.17291	0.590849	-1.07804	0.0152693	-3.64367	0.324498	-1.26444	0.00109062	-4.27368	0.0174563	-3.37991
ADAM8	0.000465304	1.7226	0.00365572	-1.55274	0.00311766	-2.48769	0.00151303	-2.67476	0.00173831	-4.2853	0.00411283	-1.60213
CLIC1	0.00206263	2.07474	0.125021	-1.44159	0.0100777	-2.0698	0.0123989	-2.99093	0.00301585	-4.29431	0.0694171	-1.43578
MSC	0.220963	1.24107	0.0185945	-2.16703	0.0192239	-3.4606	0.0148932	-2.68944	0.0205316	-4.29486	0.22996	-1.59694
HNRPLL	0.0320315	1.37181	0.00627977	-2.91008	0.0311274	-3.13523	0.00431571	-3.39206	0.0299005	-4.30093	0.743576	-1.07737
SYT11	0.010633	2.73661	0.0359266	-1.57767	0.101026	-1.57933	0.0167324	-4.31746	0.0257945	-4.32201	0.992214	-1.00105
ATP2B4	0.0406576	1.64383	0.00275594	-1.81882	0.0512537	-2.63426	0.00974868	-2.98982	0.0323052	-4.33028	0.201298	-1.44834
NHSL2	0.0892481	1.21587	0.00278193	-1.4211	0.0191913	-3.57467	0.0177345	-1.72787	0.0259789	-4.34634	0.0319732	-2.51543
MATK	0.0241342	1.77404	0.409541	-1.19423	0.00163301	-2.46051	0.0365457	-2.1186	0.00205422	-4.36504	0.0344578	-2.06034
ARHGAP18	0.012783	1.75225	0.152726	-1.31471	0.0205522	-2.52609	0.0047281	-2.30369	0.0143144	-4.42634	0.10009	-1.92141
SLFN12L	0.0346639	1.60863	0.0983884	-1.46707	0.0235266	-2.75956	0.013792	-2.35997	0.0086841	-4.43911	0.0652627	-1.881
SPATS2L	0.26145	1.16742	0.150608	-1.58259	0.0413277	-3.81182	0.0294893	-1.84754	0.0184046	-4.44998	0.052458	-2.4086
RAB27B	0.0750696	1.49817	0.0762185	-2.22421	0.00881874	-2.99166	0.0518228	-3.33224	0.0203491	-4.48202	0.268415	-1.34505
PIK3R3	0.253422	1.22671	0.00628896	-1.38821	0.0363201	-3.67104	0.0738368	-1.70293	0.00809574	-4.50331	0.0718519	-2.64444
TP53INP1	0.0121618	1.84014	0.033326	-1.76255	0.0448303	-2.47812	0.0128598	-3.24334	0.0200233	-4.56008	0.0669493	-1.40588
MBOAT1	0.00936784	1.83845	0.0288504	-1.59938	0.0545976	-2.48837	0.00187957	-2.94037	0.0136203	-4.57474	0.173106	-1.55584
GYG1	0.117737	1.22775	0.0580329	-1.63848	0.0260973	-3.7739	0.0159847	-2.01165	0.0275931	-4.63342	0.0569298	-2.3033
KATNAL1	0.187585	1.28803	0.0595432	-2.36333	0.0274874	-3.63837	0.0186602	-3.04404	0.020899	-4.68632	0.0756671	-1.53951
FAM46C	0.000151847	2.38455	0.199178	-1.30603	0.0221943	-1.99378	0.0140223	-3.1143	0.00470007	-4.75429	0.0481726	-1.5266
ZC3HAV1L	0.082495	1.38596	0.0114242	-2.03519	0.046388	-3.45357	0.0274461	-2.82069	0.0238776	-4.7865	0.252594	-1.69692
CLIC1	0.000165968	2.37452	0.190712	-1.34759	0.00943322	-2.04358	0.0148782	-3.19987	0.00188066	-4.85253	0.0741094	-1.51648
ANXA2P2	0.00948222	2.14981	0.0447382	-1.69677	0.00869701	-2.31306	0.0198343	-3.64772	0.00840153	-4.97263	0.014184	-1.36322
CTNNA1	0.0389416	1.60943	0.111984	-1.44082	0.0199904	-3.19215	0.0200334	-2.3189	0.0382756	-5.13752	0.00927605	-2.2155
NPC1	0.0327133	1.63156	0.03474	-1.3467	0.00365103	-3.14888	0.00828624	-2.19723	0.00617869	-5.1376	0.020795	-2.33821
C3AR1	0.0711539	1.39661	0.673671	-1.11339	0.0441443	-3.83501	0.0751506	-1.55497	0.0210388	-5.356	0.024894	-3.44445
CRIM1	0.0135826	1.72361	0.0611767	-1.32346	0.0490247	-3.18563	0.00527514	-2.28114	0.0186987	-5.4908	0.0454657	-2.40705
SH2D2A	0.0120844	2.02574	0.0210689	-1.3314	0.00490969	-2.77655	0.00190058	-2.69706	0.004498	-5.62456	0.00923322	-2.08544
ERN1	0.0125268	1.91519	0.0200908	-2.03497	0.0073597	-3.0052	0.00386083	-3.89736	0.00518703	-5.75552	0.178128	-1.47678
YPEL1	0.0695082	1.89975	0.0215944	-1.69428	0.0348141	-3.15733	0.0286234	-3.2187	0.00851851	-5.99813	0.16276	-1.86352
TBX21	0.00152361	2.97151	0.240503	-1.10364	0.035002	-2.05205	0.00727051	-3.27971	0.00657339	-6.09809	0.0585535	-1.85934
SLC1A4	0.0456114	1.39432	0.0164043	-3.0405	0.0143944	-4.37558	0.00985862	-4.23942	0.0103652	-6.10093	0.0126491	-1.4391
STOM	0.00269587	3.15389	0.0424174	-1.20034	0.0344485	-1.94075	0.000259677	-3.78573	0.00965307	-6.12091	0.0936752	-1.61684
FASLG	0.429314	1.05158	0.045263	-2.30097	0.0168423	-5.92944	0.0530057	-2.41965	0.003691	-6.23528	0.00329631	-2.57694
PHACTR2	0.0197976	2.1235	0.000158255	-2.3582	0.0214872	-2.98937	0.00426335	-5.00763	0.00266193	-6.34793	0.29189	-1.26765
GALNT3	0.0749899	1.25115	0.56637	-1.11177	0.0328758	-5.20491	0.259545	-1.391	0.0355054	-6.51215	0.0094753	-4.68164
ADRB2	0.00747954	1.40537	0.114846	-1.84983	0.00623767	-4.67704	0.0531929	-2.5997	0.0033705	-6.57298	0.11066	-2.52836
UNKNOWN	0.0117643	2.91816	0.662053	-1.09569	0.095773	-2.2674	0.0319968	-3.19739	0.00680524	-6.61665	0.146589	-2.06939
PIK3AP1	0.005689	1.50323	0.217086	-1.42813	0.00931001	-4.40381	0.0597582	-2.14681	0.0036406	-6.61996	0.0455906	-3.08362
UNKNOWN	0.0229876	1.56156	0.198417	-1.58827	0.00580939	-4.26118	0.0943058	-2.48018	0.00255969	-6.65407	0.106231	-2.6829
TLR3	0.03871	1.79185	0.146576	-1.39841	0.0279349	-3.75544	0.0225756	-2.50575	0.0310612	-6.72921	0.0879675	-2.68551
PLEKHA5	0.304265	1.45764	0.0431515	-2.21279	0.00467823	-4.62696	0.0425536	-3.22545	0.0119763	-6.74443	0.0116667	-2.09101
DUSP10	0.0208958	3.10753	0.465729	-1.19387	0.00425221	-2.18633	0.0258938	-3.70999	0.00491971	-6.7941	0.115425	-1.8313
GNAO1	0.253846	1.41453	0.0328928	-3.11803	0.00128688	-4.8507	0.00416293	-4.41056	0.0118253	-6.86148	0.193277	-1.55569
PTGDR	0.0291546	1.58251	0.129484	-1.62677	0.00952846	-4.42195	0.0676344	-2.57438	0.00427871	-6.99778	0.0970549	-2.71823
FRMD4B	0.122785	1.28533	0.0759013	-2.26712	0.0346233	-5.49222	0.0476342	-2.914	0.0133886	-7.05932	0.133364	-2.42256
ANXA2	0.0391703	3.66734	0.00645051	-1.74551	0.0447965	-1.95644	0.0267121	-6.40138	0.0204153	-7.17492	0.535334	-1.12084
EOMES	0.00150508	2.93308	0.241966	-1.57202	0.0064771	-2.45894	0.0324695	-4.61087	0.000904876	-7.21227	0.319225	-1.56419
CADM1	0.052074	1.37864	0.0202724	-2.84157	0.0289571	-5.23347	0.0222449	-3.91751	0.0120537	-7.21507	0.287727	-1.84175
MAF	0.0354317	1.60456	0.0264973	-2.64936	0.0098329	-4.4993	0.0061424	-4.25105	0.00113806	-7.21937	0.0197814	-1.69826
TPRG1	0.0385455	3.04857	0.0240551	-1.93644	0.0031436364	-2.38539	0.00532254	-5.90336	0.00790768	-7.27204	0.0660052	-1.23185
NBEAL2	0.0112494	2.22995	0.0163264	-2.38181	2.52E-06	-3.34526	0.00274559	-5.31132	0.00177255	-7.45975	0.0948659	-1.4045
PPP2R2B	0.0826817	1.25592	0.0441464	-2.02288	0.00759091	-5.98603	0.00789152	-2.54058	0.0117562	-7.51799	0.0694094	-2.95916
PELO	0.0107182	2.37058	0.0371392	-1.96375	0.0857317	-3.18898	0.0186105	-4.65523	0.0428704	-7.55972	0.170736	-1.62392
SLC4A4	0.0318743	1.81279	0.238015	-1.28015	0.00889362	-4.22451	0.0245667	-2.32065	0.00965106	-7.65815	0.0522746	-3.30001
KLRF1	0.295583	1.1044	0.086264	-1.58087	0.0076607 2	-7.10683	0.0263505	-1.74591	0.0127119	-7.84877	0.0416145	-4.49553
FOSL2	0.00301153	3.95086	0.0217722	-1.41245	0.0299182	-2.03016	0.0003448	-5.58039	0.0019427	-8.02086	0.08759	-1.43733
RGS2	0.022378	3.9777	0.366924	-1.22759	0.159616	-2.0389	0.0542704	-4.88297	0.00365624	-8.11014	0.100037	-1.6609
TGFBR3	0.0180451	2.41474	0.00718025	-2.10423	0.0198162	-3.37037	0.00900298	-5.08118	0.00555393	-8.13858	0.0801087	-1.60171
PRF1	0.0302019	1.23368	0.0447407	-1.79574	0.0153324	-6.6186	0.0282762	-2.21536	0.015156	-8.16521	0.0622015	-3.68573
MYO1F	0.00583135	2.96031	0.052977	-1.62434	0.00853022	-2.88121	0.00792721	-4.80854	0.00106004	-8.52927	0.019711	-1.77378
GAB3	0.289229	1.28554	0.0710104	-2.23625	0.0100403	-6.79718	0.0160234	-2.87478	0.0156294	-8.73804	0.0337411	-3.03955
C17orf66	0.0376484	3.78024	0.186116	-1.38676	0.11911	-2.32949	0.0122284	-5.24228	0.000938591	-8.80602	0.17538	-1.67981
MICAL2	0.00527063	2.3108	0.068199	-2.29365	0.0181416	-3.84283	0.0234568	-5.30018	0.012336	-8.88002	0.140799	-1.67542
CYTH3	0.00253907	1.48984	0.0198375	-2.97495	0.007553	-6.02106	0.0136016	-4.43219	0.00431021	-8.97041	0.142238	-2.02392
TOX	0.0455931	1.78642	0.00463429	-3.34874	0.0421255	-5.03344	0.00188422	-5.98227	0.0177365	-8.99186	0.268384	-1.50308
HLA-DRA	0.0198138	1.91352	0.0376957	-3.67497	0.0632593	-4.90233	0.00935289	-7.03214	0.027859	-9.38071	0.318017	-1.33398
SYNE1	0.201605	1.52096	0.0194238	-3.84787	0.011236	-6.18976	0.00860825	-5.85246	0.0164851	-9.41438	0.246643	-1.60862
HLA-DRA	0.0171136	1.78779	0.0563091	-3.63644	0.0601762	-5.27029	0.0174742	-6.50119	0.0299864	-9.42217	0.3068	-1.4493
WEE1	0.0016158	4.14954	0.0407973	-2.13723	0.0603684	-2.35598	0.0363499	-8.8685	0.00964177	-9.77624	0.523788	-1.10236
PYHIN1	0.0171511	5.12875	0.108847	-1.32085	0.158548	-1.91206	0.00787467	-6.77429	0.00119598	-9.80649	0.25848	-1.4476
F2R	0.0048907	4.54255	0.353924	-1.39095	0.0147183	-2.17584	0.00385053	-6.31848	0.00350518	-9.88387	0.238577	-1.56428
UNKNOWN	0.147581	1.24697	0.0981469	-2.98607	0.00273673	-8.00644	0.0427356	-3.72354	0.00700793	-9.98378	0.173715	-2.68126
TARP	0.0192343	2.09912	0.0329152	-1.40936	0.0132221	-4.92327	0.00481382	-2.95841	0.00119677	-10.3345	0.0134388	-3.49327
PLD1	0.366686	1.13298	0.253027	-1.25803	0.0350326	-10.2629	0.0303077	-1.42532	0.0262016	-11.6277	0.0440833	-8.15795
THBS1	0.00128369	2.22071	0.539797	-1.06979	0.00260658	-5.30128	0.0062272	-2.37571	0.000626317	-11.7726	1.84E-05	-4.95542
CD58	0.00471822	4.26874	0.004386	-2.12697	0.00212238	-2.85231	0.000512353	-9.07948	0.0016947	-12.1758	0.041692	-1.34102
FAS	0.00388186	6.04861	0.0117875	-1.81016	0.1336	-2.04696	0.0048802	-10.949	0.0154631	-12.3994	0.675078	-1.13247
NETO2	0.0013246	3.22444	0.024866	-2.41546	0.0267939	-3.86862	0.0307302	-7.78851	0.0109749	-12.4742	0.27653	-1.60161
UNKNOWN	0.0323405	2.37302	0.189769	-1.39528	0.00247522	-5.34257	0.0350993	-3.31227	0.0112961	-12.6828	0.00857549	-3.82904
CXCR6	0.228078	1.25117	0.0592088	-2.04151	0.0328081	-10.149	0.0377483	-2.55429	0.0201882	-12.6982	0.0262124	-4.9713
ST6GALNAC2	0.00155001	5.0845	0.0233896	-1.63568	0.132357	-2.60026	0.004299	-8.31662	0.0157509	-13.221	0.412178	-1.58971
DUSP4	0.0672968	3.447	0.00140747	-2.73593	0.0716567	-4.01946	0.0269673	-9.43073	0.0136127	-13.855	0.455959	-1.46914
AUTS2	0.0381008	1.69322	0.018258	-2.49264	0.00989942	-8.96817	0.000658275	-4.22058	0.00175802	-15.1851	0.00715705	-3.59786
C1orf21	0.0239276	2.98828	0.0906745	-2.34604	0.0308901	-5.26517	0.0491261	-7.01063	0.0102631	-15.7338	0.23128	-2.24428
KLRG1	0.0142873	2.50774	0.161683	-1.9149	0.0147655	-6.4314	0.050152	-4.80207	0.0144923	-16.1283	0.0618587	-3.35861
TNIP3	0.0221607	5.32963	0.00242619	-1.7967	0.0487888	-3.08583	0.0110076	-9.57576	0.00687684	-16.4463	0.14262	-1.7175
GZMA	0.0285766	3.13224	0.0424644	-1.85988	0.0498932	-5.5604	0.0299847	-5.82559	0.00545218	-17.4165	0.170594	-2.98966
PRR5L	0.0731053	2.12998	0.00642123	-4.34362	0.0242373	-8.68834	0.0200686	-9.25179	0.00894646	-18.5059	0.129653	-2.00025
PRDM1	0.0304914	3.57947	0.017462	-1.90451	0.0126955	-5.26597	0.0144421	-6.81716	0.00906542	-18.8494	0.0654186	-2.76499
ST8SIA6	0.470914	1.12935	0.0933289	-2.44753	0.0141034	-16.9712	0.114817	-2.76411	0.022599	-19.1663	0.00395659	-6.93401
PLXND1	0.00372958	3.96404	0.0681041	-2.04155	0.00984386	-4.84705	0.0125457	-8.09279	0.00266967	-19.2139	0.0179859	-2.3742
PTPRM	0.00797741	2.1391	0.0243441	-2.16065	0.00891706	-9.47301	0.0644218	-4.62186	0.00244364	-20.2638	0.0267211	-4.38433
GFPT2	0.127771	1.42217	0.0825679	-2.50871	0.00251549	-15.1223	0.0133483	-3.56781	0.00776565	-21.5065	0.050043	-6.02793
MYBL1	0.00689762	3.93023	0.0403337	-1.57598	0.0143397	-5.95765	0.000565471	-6.19395	0.00138638	-23.4149	0.00828717	-3.78029
SLAMF7	0.0103119	7.8903	0.122157	-1.66587	0.0520135	-3.28399	0.0106099	-13.1442	0.0680425	-25.9117	0.277429	-1.97134
FLJ16686	0.0185017	3.67103	0.0446678	-4.34908	0.00743623	-7.45856	0.00430776	-15.9656	0.102081	-27.3806	0.389456	-1.7142
GNLY	0.133664	1.92029	0.0312633	-2.30714	0.00093863	-15.0732	0.0672587	-4.43037	0.0178439	-28.9449	0.00889462	-6.53329
ZEB2	0.00208667	4.6123	0.00107252	-1.95859	0.0203743	-6.97726	0.00170489	-9.03362	0.00985865	-32.1812	0.0393127	-3.56238
CST7	0.00403939	8.08281	0.0193134	-2.6812	0.0380605	-4.13029	0.00162365	-21.6716	0.00578962	-33.3843	0.372903	-1.54047
IL18RAP	0.0134805	1.83643	0.169506	-1.85136	0.0420116	-21.1386	0.045622	-3.39989	0.0336011	-38.8196	0.0277337	-1.41479
CCL5	0.00444921	32.679	0.74343	-1.03011	0.00503524	-1.43937	0.0075545	-33.683	0.0295064	-47.0371	0.0771795	-1.39729
KLRD1	0.00430347	7.71349	0.122727	-1.53638	0.0511963	-6.41623	0.0143551	-11.8508	0.0172311	-49.4915	0.0733811	-4.17621
KLRB1	0.0339963	2.77399	0.0407932	-3.60879	0.0158797	-48.7918	0.0320763	-10.0107	0.00394754	-135.348	0.0608441	-13.5203

Supplementary Table 4   Differentially regulated genes among TSCM and TN

Gene Symbol	p-value(TSCM vs.TN)	Fold-Change(TSCM vs.TN)	p-value(TSCM vs. TCM)	Fold-Change(TSCM vs. TCM)	p-value(TSCM vs. TEM)	Fold-Change(TSCM vs. TEM)	p-value(TN vs. TCM)	Fold-Change(TN vs. TCM)	p-value(TN vs. TEM)	Fold-Change(TN vs. TEM)	p-value(TCM vs. TEM)	Fold-Change(TCM vs. TEM)
GZMK	0.00497381	75.0522	0.295884	-1.26205	0.693754	-1.17197	0.00929638	-94.7195	0.00826343	-87.9588	0.829096	1.07686
GPR15	0.00217539	70.1816	0.223374	1.4343	0.0813783	7.33005	0.0106687	-48.9309	0.0322341	-9.5745	0.179772	5.11054
CCL5	0.00444921	32.679	0.74343	-1.03011	0.00503524	-1.43937	0.0075545	-33.663	0.00295064	-47.0371	0.0771795	-1.39729
EPHA4	0.000455354	10.3023	0.0555098	-1.45813	0.61964	-1.16331	0.00163882	-15.0221	0.0131437	-11.9847	0.332974	1.25344
ENTPD1	0.00890102	9.34916	0.252552	-1.69392	0.312745	1.88698	0.00815629	-15.8367	0.035838	-4.95456	0.026307	3.19639
CST7	0.00403939	8.08281	0.0193134	-2.6812	0.0380605	-4.13029	0.00162365	-21.6716	0.00578962	-33.3843	0.372903	-1.54047
TIGIT	0.00145008	7.82849	0.0336586	-1.49894	0.470843	-1.31538	0.00352079	-11.7344	0.0164199	-10.2974	0.759548	1.13955
KLRD1	0.00430347	7.71349	0.122727	-1.53638	0.0511963	-6.41623	0.0143551	-11.8508	0.0172311	-49.4915	0.0733811	-4.17621
IRF4	0.00462503	6.46448	0.241133	1.30362	0.11049	1.60089	0.00525078	-4.95887	0.0124287	-4.03806	0.381486	1.22803
FAS	0.0038186	6.04861	0.0117875	-1.81016	0.1336	-2.04996	0.0048802	-10.949	0.0154631	-12.3994	0.675078	-1.13247
FAM129A	0.00416919	5.87993	0.00515485	-3.46155	0.0196464	-2.71332	0.00447987	-20.3537	0.00705909	-15.9542	0.205219	1.27576
GPR183	0.00446348	5.17656	0.0433618	-1.40557	0.595562	1.20572	0.00560687	-7.27604	0.026371	-4.29333	0.287464	1.69473
ST6GALNAC2	0.00155001	5.0845	0.0233896	-1.63568	0.132357	-2.60026	0.004299	-8.31662	0.0157509	-13.221	0.412178	-1.58971
MCOLN2	0.00479449	5.00442	0.0218347	-1.54822	0.359022	-1.39786	0.00649586	-7.74794	0.0388763	-6.99547	0.717618	1.10757
ZEB2	0.00208667	4.6123	0.00107252	-1.95859	0.0203743	-6.97726	0.00170489	-9.03362	0.00985865	-32.1812	0.0393127	-3.56238
F2R	0.00489907	4.54255	0.353924	-1.39095	0.0147183	-2.17584	0.0395073	-6.31848	0.00350518	-9.88387	0.238577	-1.56428
CD58	0.00471822	4.26874	0.004386	-2.12697	0.00212238	-2.85231	0.000512353	-9.07948	0.0016947	-12.1758	0.041692	-1.34102
SLAMF1	0.000732404	4.24662	0.766797	1.02942	0.616929	-1.13751	0.00555728	-4.12525	0.0203264	-4.83058	0.371547	-1.17098
WEE1	0.0016158	4.14954	0.0407973	-2.13723	0.0603684	-2.35598	0.00363499	-8.8685	0.00964177	-9.77624	0.523788	-1.10236
HAVCR1	0.00757869	4.01234	0.0218798	2.5117	0.00953128	4.83783	0.128899	-1.59746	0.568285	1.20574	0.0920773	1.92611
ST8SIA1	0.00777112	3.9827	0.122733	-1.34792	0.7017	-1.04361	0.0031738	-5.36836	0.000483408	-4.1564	0.127185	1.29159
PLXND1	0.00372958	3.96404	0.0681041	-2.04155	0.00984386	-4.84705	0.0125457	-8.09279	0.00266967	-19.2139	0.0179859	-2.3742
FOSL2	0.00301153	3.95086	0.0217722	-1.41245	0.0299182	-2.03016	0.00434848	-5.58039	0.0019427	-8.02086	0.08759	-1.43733
MYBL1	0.00689762	3.93023	0.0403337	-1.57598	0.0143397	-5.95765	0.000565471	-6.19395	0.00138638	-23.4149	0.00828717	-3.78029
ITGB1	0.00774226	3.75504	0.0339428	-1.45958	0.948283	-1.0186	0.0076458	-5.4808	0.0675381	-3.82489	0.264232	1.43293
SLC27A2	0.000461133	3.36965	0.431135	-1.15132	0.328427	1.12724	0.0102803	-3.87953	0.0107161	-2.98928	0.194749	1.29781
NETO2	0.0013246	3.22444	0.024866	-2.41546	0.0267939	-3.86862	0.00307302	-7.78851	0.0109749	-12.4742	0.27653	-1.60161
STOM	0.00269587	3.15389	0.0424174	-1.20034	0.0344485	-1.94075	0.000259677	-3.78573	0.00965307	-6.12091	0.0936752	-1.61684
EDARADD	0.00997853	3.09673	0.286824	-1.2297	0.489998	-1.31283	0.00297583	-3.80806	0.0224433	-4.06549	0.806947	-1.0676
ARID5B	0.000307001	2.99031	0.0132295	-1.47146	0.423938	1.17216	0.000464105	-4.40013	0.0226915	-2.55112	0.0415889	1.72478
TBX21	0.00152361	2.97171	0.240503	-1.10364	0.035002	-2.05205	0.0727051	-3.27971	0.00657339	-6.09809	0.0585535	-1.85934
MYO1F	0.00583135	2.96031	0.052977	-1.62434	0.0853022	-2.88121	0.00792721	-4.80854	0.00106004	-8.52927	0.019711	-1.77378
CLDND1	0.00427788	2.94177	0.0176366	-1.23802	0.973318	1.00185	0.00129176	-3.64197	0.00532009	-2.93634	0.0760838	1.24031
EOMES	0.0150508	2.93308	0.241966	-1.57202	0.0064771	-2.45894	0.0324695	-4.61087	0.000904876	-7.21227	0.319225	-1.56419
USP46	0.00239229	2.88694	0.0152922	-2.22805	0.0781054	-1.46279	0.00257131	-6.43226	0.0107032	-4.22299	0.184596	1.52316
IL2RB	0.00672448	2.80796	0.150478	-1.24565	0.328279	-1.39929	0.00348626	-3.49773	0.0165061	-3.92916	0.652349	-1.12334
NCAPH	0.00784854	2.76233	0.0144006	-3.90517	0.0420337	-2.74215	0.00124699	-10.7874	0.00519856	-7.57472	0.172949	1.42413
LRIG1	0.00893925	2.58571	0.085408	-1.36406	0.0297177	-1.23479	0.00323754	-3.52707	0.00466887	-3.1928	0.25104	1.1047
MAP3K1	0.00949677	2.5628	0.463519	1.03908	0.0405162	2.0104	0.00364298	-2.46642	0.10229	-1.27477	0.0338737	1.93479
IGSF9B	0.00114372	2.44435	0.123321	-1.67205	0.000274191	2.79013	0.0181146	-4.08708	0.063643	1.14146	0.01391	4.66524
TSPAN18	0.00603435	2.4259	0.00225649	-1.95388	0.178245	1.606	0.00105193	-4.73992	0.165273	-1.51052	0.0395629	3.13794
FAM46C	0.000151847	2.38455	0.199178	-1.30603	0.0221943	-1.99378	0.0140223	-3.1143	0.00470007	-4.75429	0.0481726	-1.5266
CLIC1	0.000165968	2.37452	0.190712	-1.34759	0.00943322	-2.04358	0.0148782	-3.19987	0.00188066	-4.85253	0.0741094	-1.51648
MICAL2	0.00527063	2.3108	0.068199	-2.29365	0.0181416	-3.84283	0.0234568	-5.30018	0.012336	-8.88002	0.140799	-1.67542
UNKNOWN	0.00114806	2.27372	0.664192	1.046	0.043942	1.89092	0.0102888	-2.17373	0.37209	-1.20244	0.0628266	1.80776
ANK3	0.00128369	2.22071	0.539797	-1.06979	0.0260658	-5.30128	0.0062272	-2.37571	0.000626317	-11.7726	0.107115	-4.95542
ANK3	0.00936447	2.15586	0.108782	-1.34387	0.889531	-1.02834	0.010754	-2.8972	0.0596801	-2.21697	0.104988	1.30683
ANXA2P2	0.00948222	2.14981	0.0447382	-1.69677	0.0869701	-2.31306	0.0198343	-3.64772	0.00840153	-4.97263	0.014184	-1.36322
IGSF9B	0.0059778	2.14643	0.0288649	-1.60958	0.0798602	2.02718	0.0062595	-3.45483	0.77962	-1.05882	0.0169204	3.2629
PTPRM	0.00797741	2.1391	0.0243441	-2.16065	0.00891706	-9.47301	0.00644218	-4.62186	0.00244364	-20.2638	0.0267211	-4.38433
JOSD1	0.00792942	2.09948	0.0397542	-1.28809	0.107469	-1.16643	0.00242313	-2.70432	0.00268626	-2.4489	0.322898	1.1043
AHNAK	0.00403359	2.09702	0.0493339	-1.36318	0.0374452	-1.79678	0.000701818	-2.85862	0.00751324	-3.76788	0.121815	-1.31808
YARS	0.00214378	2.09481	0.42092	1.05589	0.758219	1.04693	0.00696937	-1.98393	0.0189785	-2.00091	0.949039	-1.00856
CLIC1	0.00206263	2.07474	0.125021	-1.44159	0.0100777	-2.0698	0.0123989	-2.99093	0.00301585	-4.29431	0.0694171	-1.43578
GPRIN3	0.00580303	2.06225	0.202811	-1.13832	0.221458	-1.26223	0.00639582	-2.34749	0.0159104	-2.60303	0.428485	-1.10885
SNORD115-11	0.000597972	2.01807	0.826499	1.01373	0.0350397	1.88763	0.102489	-1.99075	0.223474	-1.0691	0.0178008	1.86207
IL6ST	0.00356465	-2.02168	0.63256	1.11083	0.013613	2.85814	0.0310896	2.24575	0.00231292	5.77825	0.00792746	2.57297
OCRL	0.000932905	-2.06016	0.623403	1.08672	0.335076	1.18274	0.0236452	2.23881	0.0152507	2.43662	0.411635	1.08836
OSBPL5	0.00425357	-2.09942	0.543527	1.05539	0.028139	-2.05199	0.0147978	2.21571	0.875666	1.02311	0.00545625	-2.16566
SDK2	0.00385422	-2.12094	0.00377969	1.60841	0.0163392	2.24881	0.0014058	3.41134	0.00245489	4.7696	0.107115	1.39816
C2orf67	0.00625527	-2.17733	0.625733	1.08461	0.293231	1.10665	0.0103956	2.36154	0.0681867	2.40953	0.909918	1.02032
EDAR	0.00829007	-2.20373	0.0674126	1.91592	0.0154425	2.20811	0.00718816	4.22218	0.0906716	4.86607	0.560819	1.1525
DEPDC7	0.00403787	-2.36577	0.108697	1.22587	0.0579152	1.64732	0.00766005	2.90012	0.00368158	3.89719	0.120476	1.3438
CYP2J2	0.00215069	-2.36721	0.68546	1.07188	0.189417	1.32641	0.0134624	2.53736	0.012163	3.1399	0.205075	1.23746
IGF1R	0.00274585	-2.38855	0.00118727	2.20018	0.18204	1.96741	0.00169528	5.25525	0.0339947	4.69926	0.786129	-1.11832
LRRN1	0.00325955	-2.67153	0.000883301	1.81412	0.0244968	2.89665	0.000610973	4.84648	0.00324048	7.73848	0.0935411	1.59672
CAMSAP1L1	0.00503477	-2.74164	0.142829	-1.64365	0.125904	1.53668	0.0667792	1.66802	0.00865233	4.21304	0.030454	2.52578
TXNRD3IT1	0.000190905	-2.79014	0.169291	1.16442	0.0876496	1.37686	0.00419666	3.2489	0.00471325	3.84162	0.424713	1.18244
KCNQ5	0.00172571	-3.05317	0.0619743	1.31551	0.147051	1.8071	0.0262647	4.01648	0.0147442	5.51738	0.325587	1.37368
SLC40A1	0.00149271	-3.14034	0.0511072	1.34587	0.0400159	1.71975	0.00605869	2.07008	0.00730159	5.40059	0.0414414	2.60889
RBM11	0.00510298	-3.21077	0.246056	1.37006	0.039999	2.38066	0.0211581	4.39894	0.00603877	7.64375	0.272525	1.73763
MEST	0.00571298	-3.37228	0.28702	1.72999	0.14307	1.81005	0.0358158	5.83399	0.0100097	6.10399	0.83344	1.04628
NBEA	0.00532862	-3.62393	0.989431	1.0011	0.0101654	2.03419	0.00851575	3.62792	0.000182885	7.37175	0.0241657	2.03195
PTPRK	0.00780948	-3.96543	0.255671	1.30618	0.0238035	1.70926	0.00866956	5.17956	0.00137403	6.77796	0.118497	1.3086
NRCAM	0.00183407	-8.8258	0.259817	1.92422	0.042739	2.54878	0.0140954	16.9828	0.00265062	22.495	0.384196	1.32458

Supplementary Table 5   Differentially regulated genes among TSCM and TCM

Gene Symbol	p-value(TSCM vs.TN)	Fold-Change(TSCM vs.TN)	p-value(TSCM vs. TCM)	Fold-Change(TSCM vs. TCM)	p-value(TSCM vs. TEM)	Fold-Change(TSCM vs. TEM)	p-value(TN vs. TCM)	Fold-Change(TN vs. TCM)	p-value(TN vs. TEM)	Fold-Change(TN vs. TEM)	p-value(TCM vs. TEM)	Fold-Change(TCM vs. TEM)
TIMD4	0.392733	-1.1021	0.00292324	3.31465	0.0086716	6.46749	0.000800144	3.65306	0.002142	7.1278	0.0262516	1.95118
MYB	0.178035	1.33191	0.0098121	2.96185	0.0021667	8.68021	0.0373774	2.22376	0.00177171	6.51711	0.0249431	2.93068
FCER1G	0.880899	-1.02503	0.0060208	2.60439	0.0228718	3.11916	0.0225581	2.66957	0.0156817	3.19722	0.248259	1.19765
PPFIBP2	0.00970509	-1.78824	0.00974233	2.33102	0.00972407	3.1754	0.00200262	4.16844	0.00197413	5.6784	0.0140039	1.36224
IGF1R	0.00274585	-2.38855	0.00118727	2.20018	0.18204	1.96741	0.00169528	5.25525	0.0339947	4.69926	0.786129	-1.11832
HMGB3	0.0155736	1.68247	0.00382397	-2.02835	0.0018968	1.24741	0.00743696	-3.41264	0.0574914	-1.34878	0.00137723	2.53017
TGFBR3	0.0180451	2.41474	0.00718025	-2.10423	0.0198162	-3.37037	0.00900298	-5.08118	0.00555393	-8.13858	0.0801087	-1.60171
GLUL	0.104252	1.48133	0.00351802	-2.12636	0.0630072	-1.92767	0.00876766	-3.14984	0.00116078	-2.85552	0.565709	1.10307
CD58	0.00471822	4.26874	0.004386	-2.12697	0.00212238	-2.85231	0.000512353	-9.07948	0.0016947	-12.1758	0.041692	-1.34102
PHACTR2	0.0197976	2.1235	0.000158255	-2.3582	0.0214872	-2.98937	0.00426335	-5.00763	0.00266193	-6.34793	0.29189	-1.26765
SLFN11	0.00891487	1.35781	0.00878864	-2.61708	0.013494	-2.72891	0.00842128	-3.55351	0.012338	-3.70535	0.577454	-1.04273
DUSP4	0.0672968	3.447	0.00140747	-2.73593	0.0716567	-4.01946	0.0269673	-9.43073	0.0136127	-13.855	0.455959	-1.46914
IL9R	0.000425002	1.27573	0.0086405	-2.7395	0.0847807	-1.63759	0.00534571	-3.49486	0.0431312	-2.08912	0.113002	1.67289
IL9R	0.000425002	1.27573	0.0086405	-2.7395	0.0847807	-1.63759	0.00534571	-3.49486	0.0431312	-2.08912	0.113002	1.67289
HNRPLL	0.0320315	1.37181	0.00627977	-2.91008	0.0311274	-3.13523	0.00431571	-3.99206	0.0299005	-4.30093	0.743576	-1.07737
ALOX5AP	0.20606	-1.2352	0.0088366	-3.16399	0.0271138	-4.20016	0.0474545	-2.56151	0.0207969	-3.40037	0.418584	-1.32749
TOX	0.0455931	1.78642	0.00463429	-3.34874	0.0421255	-5.03344	0.00188422	-5.98227	0.0177365	-8.99186	0.268384	-1.50308
FAM129A	0.00416919	5.87993	0.00515485	-3.46155	0.0196464	-2.71332	0.00447987	-20.3537	0.00705909	-15.9542	0.205219	1.27576
PRR5L	0.0731053	2.12998	0.00642123	-4.34362	0.0242373	-8.68834	0.00200686	-9.25179	0.00894646	-18.5059	0.129653	-2.00025
CCR4	0.0113644	2.05957	0.0011714	-16.1374	0.202573	-2.67881	0.000864425	-33.236	0.0698114	-5.51719	0.0900197	6.02408

Supplementary Table 6   Differentially regulated genes among TSCM and TEM

Gene Symbol	p-value(TSCM vs.TN)	Fold-Change(TSCM vs.TN)	p-value(TSCM vs. TCM)	Fold-Change(TSCM vs. TCM)	p-value(TSCM vs. TEM)	Fold-Change(TSCM vs. TEM)	p-value(TN vs. TCM)	Fold-Change(TN vs. TCM)	p-value(TN vs. TEM)	Fold-Change(TN vs. TEM)	p-value(TCM vs. TEM)	Fold-Change(TCM vs. TEM)
SELL	0.467505	1.06449	0.252693	1.13116	0.00459254	30.0668	0.273967	1.06263	0.00805592	28.2452	0.00826915	26.5806
DSC1	0.178677	-1.39142	0.12244	1.96372	0.00361216	14.3569	0.0140565	2.73236	0.00138929	19.9765	0.0128318	7.31107
MYB	0.178035	1.33191	0.0098121	2.96185	0.0021667	8.68021	0.0373774	2.22376	0.00177171	6.51711	0.0249431	2.93068
LEF1	0.0150759	-1.23562	0.0585569	1.25608	0.00825779	7.34183	0.00538289	1.55204	0.00870699	9.0717	0.0170306	5.84502
TIMD4	0.392733	-1.1021	0.00292324	3.31465	0.0086716	6.46749	0.000800144	3.65306	0.002142	7.1278	0.0262516	1.95118
SESN3	0.0427483	2.57498	0.0819508	-1.17751	0.00157746	6.14378	0.028145	-3.03206	0.075412	2.38595	0.00102589	7.23433
LOC283174	0.0211947	3.17819	0.0940848	-1.66348	0.006709	5.04098	0.0213093	-5.28686	0.00691769	1.58612	0.0101532	8.38558
HAVCR1	0.00757869	4.01234	0.0218798	2.5117	0.00953128	4.83783	0.128899	-1.59746	0.568285	1.20574	0.0920773	1.92611
NOG	0.0287452	-2.36496	0.0183687	4.04517	0.00633113	4.43908	0.00573883	9.56667	0.00410094	10.4982	0.771253	1.09738
TAF4B	0.0431436	-1.75373	0.354641	1.60411	0.00155366	4.20465	0.066558	2.81318	0.00135155	7.37381	0.112897	2.62117
SELP	0.000727813	1.73097	0.403103	-1.16541	0.00757484	4.03855	0.0339872	-2.01729	0.0247537	2.33311	0.0230241	4.70657
CCNE1	0.0497242	1.19044	0.215854	1.50368	0.00666673	3.39942	0.339731	1.26313	0.0037024	2.8556	0.0277398	2.26074
OCM	0.889032	1.01035	0.488958	1.17453	0.00979928	3.22412	0.433706	1.1625	0.0104886	3.19109	0.0107868	2.74503
FAM153B	0.0406805	-1.42768	0.0880125	1.33303	0.00635873	3.1924	0.0602238	1.90314	0.000191942	4.55773	0.0417718	2.39485
PPFIBP2	0.00970509	-1.78824	0.00974233	2.33102	0.00972407	3.1754	0.00200262	4.16844	0.00197413	5.6784	0.0140039	1.36224
OCM2	0.636401	-1.03388	0.332784	1.15258	0.00140659	2.93399	0.194078	1.19162	0.000606448	3.03338	0.00741561	2.54558
LRRC16A	0.001273	-1.69086	0.149743	1.33124	0.00630459	2.8346	0.0286334	2.25094	0.0027091	4.79292	0.0215877	2.1293
IGSF9B	0.00114372	2.44435	0.123321	-1.67205	0.000274191	2.79013	0.0181146	-4.08708	0.063643	1.14146	0.01391	4.66524
ZC3H12D	0.0023619	1.77145	0.0584697	1.45599	0.000362854	2.6961	0.130573	-1.21667	0.00310587	1.52197	0.0259214	1.85173
WNT7A	0.241275	1.11277	0.986515	1.00163	0.00381162	2.48233	0.133267	-1.11095	0.00113532	2.23077	0.00107343	2.47828
FAM117B	0.0543794	-1.23605	0.0578279	1.51856	0.00106752	2.4717	0.0117159	1.87701	0.0044003	3.05514	0.0679078	1.62766
BEND5	0.0315357	-1.36523	0.280312	1.24888	0.00210697	2.47085	0.0382186	1.70501	0.00631391	3.37328	0.0710444	1.97845
PELI1	0.0717668	1.44276	0.0698226	1.42619	0.00116701	2.3003	0.807712	-1.01162	0.0278541	1.59437	0.0294242	1.61289
LMO7	0.0293286	-1.5267	0.225677	1.34762	0.00494167	2.28789	0.0613674	2.05741	0.00105863	3.49293	0.127921	1.69773
CEP68	0.25325	-1.10398	0.805954	1.02092	0.00213062	2.26061	0.431534	1.12707	0.00874429	2.49566	0.00222545	2.21429
ZNF238	0.203962	-1.14016	0.0892134	1.14537	0.001317	2.21422	0.0217633	1.30591	0.00740518	2.52457	0.0098159	1.93319
C17orf48	0.0332872	-1.50435	0.134263	1.37629	0.00305636	2.19066	0.0474169	2.07043	0.00431586	3.29553	0.0379465	1.59171
MAP1D	0.00666863	-1.65528	0.0636104	1.25916	0.00286378	2.1459	0.00274415	2.08426	0.00184182	3.55207	0.0270446	1.70423
ZSWIM1	0.331561	-1.12305	0.65809	1.03377	0.00967778	2.13907	0.110643	1.16097	0.028074	2.40228	0.0344268	2.0692
LDHB	0.119173	-1.11997	0.436715	1.14003	0.0026919	2.06919	0.127475	1.2768	0.00290202	2.31744	0.0345872	1.81504
BZW2	0.517911	-1.04219	0.0504053	1.58478	0.00470697	2.06222	0.0446668	1.65163	0.00146712	2.14922	0.187923	1.30127
CRTC3	0.308414	1.07239	0.0640992	1.40454	0.00353356	2.02826	0.0237201	1.30973	0.0036157	1.89134	0.0252895	1.44407
MXRA7	0.0533035	1.46491	0.0653788	-1.25857	0.00732335	-2.02843	0.0202662	-1.8437	0.0551716	-2.97148	0.00429769	-1.61169
CLIC1	0.000165968	2.37452	0.190712	-1.34759	0.00943322	-2.04358	0.0148782	-3.19987	0.00188066	-4.85253	0.0741094	-1.51648
NAT13	0.0372563	1.2115	0.108359	-1.36009	0.00380923	-2.05918	0.0406645	-1.64775	0.00778579	-2.49469	0.10314	-1.514
TBC1D2B	0.271235	1.10663	0.0728759	-1.3252	0.0085593	-2.07807	0.114332	-1.4665	0.0240244	-2.29964	0.000936033	-1.56812
GLCCI1	0.764555	-1.02064	0.0391198	-1.2114	0.00184141	-2.1114	0.175364	-1.1869	0.00186222	-2.0687	0.0135549	-1.74294
DUSP10	0.0208958	3.10753	0.465729	-1.19387	0.00425221	-2.18633	0.0258938	-3.70999	0.00491971	-6.7941	0.115425	-1.8313
APOBEC3D	0.0449161	1.46258	0.0203168	-1.62884	0.00928018	-2.23181	0.0219252	-2.38231	0.018013	-3.2642	0.155134	-1.37018
CACNB3	0.0702367	1.39541	0.0105111	-1.68772	0.00130565	-2.30777	0.0142975	-2.35507	0.00316527	-3.2203	0.0236163	-1.36739
ANXA2P2	0.00948222	2.14981	0.0447382	-1.69677	0.00869701	-2.31306	0.0198343	-3.64772	0.00840153	-4.97263	0.014184	-1.36322
TPRG1	0.0385455	3.04857	0.0240551	-1.93644	0.00314364	-2.38539	0.00532254	-5.90336	0.00790768	-7.27204	0.0660052	-1.23185
EOMES	0.00150508	2.93308	0.241966	-1.57202	0.0064771	-2.45894	0.0324695	-4.61087	0.000904876	-7.21227	0.319225	-1.56419
MATK	0.0241342	1.77404	0.409541	-1.19423	0.00163301	-2.46051	0.0365457	-2.1186	0.00205422	-4.36504	0.0344578	-2.06034
ARHGAP10	0.238024	-1.2551	0.017977	-1.30638	0.00902164	-2.47104	0.824207	-1.04086	0.030575	-1.9688	0.0351786	-1.89152
ADAM8	0.000465304	1.7226	0.00365572	-1.55274	0.00311766	-2.48769	0.00151303	-2.67476	0.0173831	-4.2853	0.00411283	-1.60213
MAN1A1	0.0176308	1.34504	0.117549	-1.16881	0.00675898	-2.58619	0.00188692	-1.5721	0.00121487	-3.47852	0.00220774	-2.21266
SLFN12L	0.0346639	1.60863	0.0983884	-1.46707	0.00235266	-2.75956	0.013792	-2.35997	0.00864414	-4.43911	0.0652627	-1.881
SH2D2A	0.0120844	2.02574	0.0210689	-1.3314	0.00490969	-2.77655	0.00190058	-2.69706	0.0041498	-5.62456	0.00923322	-2.08544
EIF2C4	0.0545947	1.3672	0.00564822	-1.73584	0.00482292	-2.83673	0.0251464	-2.37324	0.0118463	-3.87839	0.0399438	-1.63421
CD58	0.00471822	4.26874	0.004386	-2.12697	0.00212238	-2.85231	0.000512353	-9.07948	0.0016947	-12.1758	0.041692	-1.34102
MYO1F	0.00583135	2.96031	0.052977	-1.62434	0.00853022	-2.88121	0.00792721	-4.80854	0.00106004	-8.52927	0.019711	-1.77378
RAB27B	0.0750696	1.49817	0.0762185	-2.22421	0.00881874	-2.99166	0.0518228	-3.33224	0.0203491	-4.48202	0.268415	-1.34505
ERN1	0.0125268	1.91519	0.0200908	-2.03497	0.0073597	-3.0052	0.00386083	-3.89736	0.00518703	-5.75552	0.178128	-1.47678
NPC1	0.0327133	1.63156	0.03474	-1.3467	0.00365103	-3.14888	0.00828624	-2.19723	0.0017869	-5.1376	0.020795	-2.33821
NBEAL2	0.0112494	2.22995	0.0163264	-2.38181	2.52E-06	-3.34526	0.00274559	-5.31132	0.00177255	-7.45975	0.0948659	-1.4045
APOBEC3G	0.748311	-1.05892	0.0256601	-1.79605	0.00948943	-3.38529	0.0441537	-1.69612	0.00682943	-3.19694	0.0500511	-1.88485
SYTL2	0.571532	1.19733	0.739243	1.05275	0.00725533	-3.64016	0.443776	-1.13734	0.0066106	-4.35846	0.011732	-3.83216
SLC4A4	0.0318743	1.81279	0.238015	-1.28015	0.00889362	-4.22451	0.0245667	-2.32065	0.00965969	-7.65815	0.0522746	-3.30001
UNKNOWN	0.0229876	1.56156	0.198417	-1.58827	0.00580939	-4.26118	0.0943058	-2.48018	0.00255969	-6.65407	0.106231	-2.6829
PIK3AP1	0.005689	1.50323	0.217086	-1.42813	0.00931001	-4.40381	0.0597582	-2.14681	0.0036406	-6.61996	0.0455906	-3.08362
PTGDR	0.0291546	1.58251	0.129484	-1.62677	0.00952846	-4.42195	0.0676344	-2.57438	0.00427871	-6.99778	0.0970549	-2.71823
MAF	0.0354317	1.60456	0.0264973	-2.64936	0.0098329	-4.4993	0.00614224	-4.25105	0.00113806	-7.21937	0.0197814	-1.69826
PLEKHA5	0.304265	1.45764	0.0431515	-2.21279	0.00467823	-4.62696	0.0425536	-3.22545	0.00119763	-6.74443	0.0116667	-2.09101
ADRB2	0.00747954	1.40537	0.114846	-1.84983	0.00623767	-4.67704	0.0531929	-2.5997	0.0033705	-6.57298	0.11066	-2.52836
PLXND1	0.00372958	3.96404	0.0681041	-2.04155	0.00984386	-4.84705	0.0125457	-8.09279	0.0266967	-19.2139	0.0179859	-2.3742
GNAO1	0.253846	1.41453	0.0328928	-3.11803	0.00128688	-4.8507	0.0416293	-4.41056	0.0118253	-6.86148	0.193277	-1.55569
THBS1	0.00128369	2.22071	0.539797	-1.06979	0.00260658	-5.30128	0.0062272	-2.37571	0.000626317	-11.7726	1.84E-05	-4.95542
UNKNOWN	0.0323405	2.37392	0.189769	-1.39528	0.00247522	-5.34257	0.00350993	-3.31227	0.0112961	-12.6828	0.00855749	-3.82904
PPP2R2B	0.0826817	1.25592	0.0441464	-2.02288	0.00759091	-5.98603	0.00789152	-2.54058	0.0117562	-7.51799	0.0694094	-2.95916
CYTH3	0.00253907	1.49844	0.0198375	-2.97495	0.007553	-6.02106	0.0136016	-4.43219	0.00431021	-8.97041	0.142238	-2.02392
KLRF1	0.295583	1.1044	0.086264	-1.58087	0.0076072	-7.10683	0.0263505	-1.74591	0.0127119	-7.84877	0.0416145	-4.49553
FLJ16686	0.0185017	3.67103	0.0446678	-4.34908	0.00743623	-7.45856	0.00430776	-15.9656	0.0102081	-27.3806	0.389456	-1.71497
UNKNOWN	0.147581	1.24697	0.0981469	-2.98607	0.00273673	-8.00644	0.0427356	-3.72354	0.00709793	-9.98378	0.173715	-2.68126
AUTS2	0.0381008	1.69322	0.018258	-2.49264	0.00988942	-8.96817	0.000658275	-4.22058	0.00175802	-15.1851	0.00715705	-3.59786
PTPRM	0.00797741	2.1391	0.0243441	-2.16065	0.00891706	-9.47301	0.00644018	-4.62186	0.00244364	-20.2638	0.0267211	-4.38433
GNLY	0.133664	1.92029	0.0312633	-2.30714	0.00993863	-15.0732	0.0672587	-4.43037	0.0178439	-28.9449	0.00889462	-6.53329
GFPT2	0.127771	1.42217	0.0825679	-2.50871	0.00251549	-15.1223	0.0133483	-3.56781	0.00776565	-21.5065	0.050043	-6.02793

Supplementary Table7   Differentially regulated genes among TN and TCM

Gene Symbol	p-value(TSCM vs.TN)	Fold-Change(TSCM vs.TN)	p-value(TSCM vs. TCM)	Fold-Change(TSCM vs. TCM)	p-value(TSCM vs. TEM)	Fold-Change(TSCM vs. TEM)	p-value(TN vs. TCM)	Fold-Change(TN vs. TCM)	p-value(TN vs. TEM)	Fold-Change(TN vs. TEM)	p-value(TCM vs. TEM)	Fold-Change(TCM vs. TEM)
NOG	0.0287452	-2.36496	0.0183687	4.04517	0.00633113	4.43908	0.00573883	9.56667	0.00410094	10.4982	0.771253	1.09738
SULT1B1	0.0133697	-5.00719	0.189641	1.83317	0.0930558	4.04552	0.00307328	9.17902	0.00340866	20.2557	0.06361	2.20673
AK5	0.0143577	-4.69939	0.124661	1.8169	0.0834648	3.83549	0.00166457	8.53831	0.0148797	18.0244	0.112196	2.11101
UBE2E2	0.0536838	-2.75872	0.0251461	2.85764	0.0187504	4.51899	0.009456	7.88343	0.00665592	12.4666	0.275269	1.58137
CNN3	0.0282258	-3.72489	0.114924	1.52673	0.0431262	1.97104	0.00155991	5.68689	0.0247773	7.3419	0.431702	1.29102
IGF1R	0.00274585	-2.38855	0.00118727	2.20018	0.18204	1.96741	0.00169528	5.25525	0.0339947	4.69926	0.786129	-1.11832
PTPRK	0.00780948	-3.96543	0.255671	1.30618	0.0238035	1.70926	0.00866956	5.17956	0.00157403	6.77796	0.118497	1.3086
TPST1	0.100588	-2.18429	0.0358283	2.32851	0.145724	2.14324	0.00470538	5.08614	0.00206249	4.68146	0.664129	-1.08644
LRRN1	0.00325955	-2.67153	0.000883301	1.81412	0.0244968	2.89665	0.000610973	4.84648	0.00324048	7.73848	0.0935411	1.59672
EDAR	0.00829007	-2.20373	0.0674126	1.91592	0.0154425	2.20811	0.00718816	4.22218	0.00906716	4.86607	0.560819	1.1525
PPFIBP2	0.00970509	-1.78824	0.00974233	2.33102	0.00972407	3.1754	0.00200262	4.16844	0.00197413	5.6784	0.0140039	1.36224
KCNQ5	0.00172571	-3.05317	0.0619743	1.31551	0.147051	1.8071	0.0262647	4.01648	0.0147442	5.51738	0.325587	1.37368
TIMD4	0.392733	-1.1021	0.00292324	3.31465	0.0086716	6.46749	0.000800144	3.65306	0.002142	7.1278	0.0262516	1.95118
NBEA	0.0532862	-3.62393	0.989431	1.0011	0.0101654	2.03419	0.00851575	3.62792	0.000182885	7.37175	0.0241657	2.03195
C5orf13	0.0194105	-2.23877	0.124438	1.55317	0.0206312	2.531	0.00215128	3.47719	0.0192002	5.66633	0.246246	1.62957
SDK2	0.00385422	-2.12094	0.00377969	1.60841	0.0163392	2.24881	0.0014058	3.41134	0.0245489	4.7696	0.107115	1.39816
GJB6	0.00270628	-1.72597	0.012777	1.96545	0.0278187	3.10529	0.00262196	3.39231	0.0950916	5.35963	0.087846	1.57994
TXNRD3IT1	0.000190905	-2.79014	0.169291	1.16442	0.0876496	1.37686	0.0419666	3.2489	0.00471325	3.84162	0.424713	1.18244
PRAGMIN	0.0026267	-1.6922	0.00412842	1.78267	0.0015417	1.67908	0.00129176	3.01662	3.06E-05	2.84134	0.280612	-1.06169
DEPDC7	0.00403787	-2.36577	0.108697	1.22587	0.0579152	1.64732	0.00766005	2.90012	0.00368158	3.89719	0.120476	1.3438
AGBL3	0.000760132	-1.97854	0.0290031	1.36908	0.133105	1.64239	0.00215203	2.70878	0.0309627	3.24954	0.435133	1.19963
KRT72	0.370173	-1.19011	0.0219252	2.19113	0.0328567	3.65507	0.00455275	2.60769	0.00366967	4.34995	0.066548	1.66812
FLNB	0.0303878	-1.47973	0.00134201	1.74924	0.0879198	2.04304	0.00397632	2.58841	0.0276962	3.02316	0.530926	1.16796
NUCB2	0.0220164	-1.50737	0.0402664	1.69897	0.0788336	1.79649	0.00899567	2.56098	0.0126546	2.70797	0.728696	1.0574
PAK1	0.00511423	-1.96047	0.134373	1.30534	0.999019	1.00025	0.00430618	2.55909	0.0378761	1.96095	0.0732972	-1.30502
LOC129293	0.00310439	-1.66745	0.0203792	1.47186	0.0248137	2.76268	0.00730761	2.45426	0.00841668	4.60664	0.101618	1.877
GAL3ST4	0.00548412	-1.54171	0.0261167	1.5782	0.0112249	2.02833	0.00233375	2.43312	0.00643157	3.1271	0.180511	1.28522
ZSCAN23	0.0143943	-1.94941	0.153067	1.21039	0.562503	1.12488	0.0067914	2.35955	0.0436762	2.19285	0.541305	-1.07602
ENPP2	0.0551156	-1.59999	0.0631318	1.45205	0.00720694	1.39241	0.00898807	2.32326	0.0140662	2.22784	0.71614	-1.04283
GATM	0.0444068	-1.60419	0.103538	1.43881	0.0785185	1.66718	0.00546567	2.30973	0.00492654	2.67448	0.0381517	1.15792
MAL	0.10662	-1.40875	0.0216165	1.63099	0.0195328	6.26087	0.00851417	2.29765	0.022314	8.81999	0.0541989	3.83871
LGMN	0.0237674	-1.94034	0.0509171	1.18355	0.0149549	2.4704	0.00601602	2.29649	0.0146024	4.79342	0.0346647	2.08728
TNFRSF10D	0.00111848	-1.71294	0.0314308	1.31773	0.0403421	1.83863	0.00628972	2.25719	0.0153685	3.14947	0.0606424	1.3953
APBA2	0.0170104	-1.55431	0.11898	1.42467	0.0239041	3.26437	0.0945143	2.21437	0.021907	5.07384	0.122349	2.29132
GPR125	0.0172645	-2.0023	0.530861	1.10385	0.292232	1.20153	0.00710124	2.21025	0.0047349	2.40583	0.0254282	1.08849
CHML	0.0624947	-1.58437	0.116507	1.33885	0.160303	1.31007	0.000570928	2.12123	0.000721969	2.07564	0.602168	-0.02197
MLXIP	0.00355274	-1.44963	0.000538963	1.45027	0.0384291	1.62734	0.000441921	2.10235	0.0191293	2.35905	0.388104	1.221
MAP1D	0.00666863	-1.65528	0.0636104	1.25916	0.00286378	2.1459	0.00274415	2.08426	0.00184182	3.55207	0.0270446	1.70423
SLC40A1	0.00149271	-3.14034	0.0511072	-1.51702	0.0400159	1.71975	0.00605869	2.07008	0.00730159	5.40059	0.0414414	2.60889
SNORD115-11	0.000226454	1.97287	0.790166	-1.01425	0.00287606	1.81534	0.00305121	-2.00098	0.170102	-1.08678	0.00967969	1.84121
SNORD115-11	0.000226454	1.97287	0.790166	-1.01425	0.00287606	1.81534	0.00305121	-2.00098	0.170102	-1.08678	0.00967969	1.84121
SNORD115-11	0.000226454	1.97287	0.790166	-1.01425	0.00287606	1.81534	0.00305121	-2.00098	0.170102	-1.08678	0.00967969	1.84121
SNORD115-11	0.000226454	1.97287	0.790166	-1.01425	0.00287606	1.81534	0.00305121	-2.00098	0.170102	-1.08678	0.00967969	1.84121
SNORD115-26	0.000498386	1.99825	0.935878	-1.00324	0.00171497	1.8433	0.00337234	-2.00472	0.148004	-1.08406	0.00891325	1.84927
EZR	0.0484848	1.61825	0.0630441	-1.24516	0.00995238	-1.21568	0.00673497	-2.01499	0.0335888	-1.96728	0.785285	1.02425
FAM160B1	0.0304377	1.28752	0.0165893	-1.57125	0.0535221	-1.86296	0.00195671	-2.02302	0.0295623	-2.39859	0.347706	-1.18565
SNORD115-12	0.00533272	1.98743	0.661634	-1.02297	0.0587459	1.807	0.0164297	-2.03308	0.178951	-1.09985	0.00963706	1.84851
SNORD115-12	0.00533272	1.98743	0.661634	-1.02297	0.0587459	1.807	0.0164297	-2.03308	0.178951	-1.09985	0.00963706	1.84851
SNORD115-12	0.00533272	1.98743	0.661634	-1.02297	0.0587459	1.807	0.0164297	-2.03308	0.178951	-1.09985	0.00963706	1.84851
CLSTN3	0.00890614	1.53354	0.0764763	-1.34947	0.0172097	-1.99453	0.0422362	-2.06946	0.00209357	-3.05869	0.000126991	-1.47801
P2RY8	0.0123566	1.64251	0.00164103	-1.26333	0.00102038	-1.09111	0.00748909	-2.07504	0.0082982	-1.79216	0.0069349	1.15784
P2RY8	0.0123566	1.64251	0.00164103	-1.26333	0.00102038	-1.09111	0.00748909	-2.07504	0.0082982	-1.79216	0.0069349	1.15784
DCBLD1	0.0101759	1.96776	0.289785	-1.05735	0.0615913	-1.61371	0.0031025	-2.08061	0.0204186	-3.17539	0.0805522	-1.52618
CHEK1	0.0267573	1.24904	0.0118796	-1.6733	0.476676	-1.07928	0.0013351	-2.09002	0.0472281	-1.34807	0.00877354	1.55038
LRP8	0.0162024	1.72418	0.077867	-1.2301	0.0569478	-1.42652	0.00205279	-2.12092	0.00225768	-2.45958	0.0320529	-1.15967
SNORD115-20	0.0124719	1.86895	0.0625288	-1.13798	0.0198678	1.57889	0.00300961	-2.12683	0.0168563	-1.18371	0.00604952	1.79675
FAM53B	0.0977467	1.26095	0.00335127	-1.71551	0.0167665	-2.75586	0.00374111	-2.16316	0.00468793	-3.47499	0.051909	-1.60644
ACOT9	0.002024	1.95583	0.326282	-1.10728	0.0100305	-1.57221	0.00444024	-2.16565	0.00101711	-3.07499	0.0458664	-1.41989
ACTN4	0.0341505	1.51065	0.0431144	-1.43993	0.0280679	-2.25365	0.00828651	-2.17523	0.00792453	-3.40448	0.042838	-1.56511
NPC1	0.0327133	1.63156	0.03474	-1.3467	0.0365103	-3.14888	0.00828624	-2.19723	0.00617869	-5.1376	0.020795	-2.33821
SLCO3A1	0.00271737	1.68259	0.0370251	-1.30839	0.400509	-1.15632	0.00227753	-2.20148	0.028378	-1.94561	0.446675	1.13151
SYTL3	0.0576868	1.58764	0.0467381	-1.41077	0.0012057	-1.71087	0.00437217	-2.23979	0.0147821	-2.71625	0.130961	-1.21273
PAM	0.0199218	1.75101	0.0916121	-1.29998	0.0085671	-1.6828	0.00160009	-2.27628	0.00563512	-2.9466	0.12893	-1.29448
CRIM1	0.0135826	1.72361	0.0611767	-1.32346	0.0490247	-3.18563	0.00527514	-2.2814	0.0186987	-5.4908	0.0454657	-2.40705
COTL1	0.0129303	1.60261	0.0806095	-1.42394	0.973549	-1.00379	0.00181174	-2.28202	0.041092	-1.60868	0.0371144	1.41857
ETV6	0.00191191	1.84454	0.125118	-1.23921	0.15319	1.09873	0.00512845	-2.28577	0.0112588	-1.67879	0.112754	1.36156
FTH1	0.000598982	1.98908	0.0250916	-1.15623	0.737006	-1.04594	0.00120232	-2.29984	0.0260958	-2.08046	0.395706	1.10545
RAB27A	0.0120287	1.78758	0.0435844	-1.28704	0.0453868	-1.81193	0.00639162	-2.30069	0.00578785	-3.23896	0.0605235	-1.40782
PMAIP1	0.018887	1.8581	0.142312	-1.23933	0.0661267	-1.50157	0.004014	-2.3028	0.0164138	-2.79007	0.383916	-1.2116
ARHGAP18	0.012783	1.75225	0.152726	-1.31471	0.0205522	-2.52609	0.0047281	-2.30369	0.0143144	-4.42634	0.10009	-1.92141
MYO1C	0.0338759	1.4567	0.0467768	-1.60866	0.279955	-1.31683	0.00411528	-2.34334	0.0380935	-1.91823	0.132464	1.22162
GPRIN3	0.00580303	2.06225	0.202811	-1.13832	0.221458	-1.26223	0.000639582	-2.34749	0.0159104	-2.60303	0.428485	-1.10885
OGDH	0.00294091	1.91856	0.0435876	-1.23622	0.0770272	1.23561	0.000737731	-2.37176	0.0454561	-1.55272	0.0583224	1.52748
EIF2C4	0.0545947	1.3672	0.00564822	-1.73584	0.00482292	-2.83673	0.00512464	-2.37324	0.0118463	-3.87839	0.0399438	-1.63421
THBS1	0.00128369	2.2207·1	0.539797	-1.06979	0.00260658	-5.30128	0.0062272	-2.37571	0.000263317	-11.7726	1.84E-05	-4.95542
BMPR1A	0.0213676	1.7822	0.073292	-1.3352	0.00252175	-1.78118	0.00044383	-2.3796	0.00256272	-3.17442	0.0374275	-1.33401
APOBEC3D	0.0449161	1.46258	0.0203168	-1.62884	0.00928018	-2.23181	0.00219252	-2.38231	0.018013	-3.2642	0.155134	-1.37018
C8orf80	0.132109	1.24824	0.00302356	-1.92184	0.0468121	-1.93987	0.00996497	-2.39891	0.0297415	-2.42142	0.941482	-1.00938
UNKNOWN	0.00380294	1.89049	0.0712011	-1.27741	0.288089	-1.07432	0.00880461	-2.41492	0.00416942	-2.03098	0.276215	1.18904
KPNA2	0.0454853	1.96252	0.297285	-1.23295	0.288191	-1.13626	0.00261624	-2.41969	0.00724917	-2.22993	0.311338	1.0851
MAP3K1	0.0049677	2.5628	0.463519	-1.03908	0.0405162	2.0104	0.00364298	-2.46642	0.10229	-1.27477	0.0338737	1.93479
DGKH	0.0186381	1.75355	0.0110689	-1.43376	0.156399	-1.26063	0.0345512	-2.51418	0.0241516	-2.21059	0.258752	1.13733
PPP2R2B	0.0826817	1.25592	0.0441464	-2.02288	0.00759091	-5.98603	0.00789152	-2.54058	0.0117562	-7.51799	0.0694094	-2.95916
SYNE2	0.0165643	2.29449	0.187954	-1.11332	0.0562972	-1.28381	0.0850866	-2.5545	0.0179987	-2.94569	0.147815	-1.15314
MAP3K5	0.0223524	2.21064	0.209135	-1.15874	0.0591493	-1.77036	0.00180736	-2.56157	0.00911751	-3.91363	0.0457219	-1.52783
RNF19A	0.00487637	1.79001	0.0864489	-1.46405	0.0086492	-1.80421	0.0075114	-2.62067	0.00135449	-3.22956	0.132191	-1.23234
ADAM8	0.000465304	1.7226	0.0365572	-1.55274	0.0311766	-2.48769	0.00151303	-2.67476	0.0173831	-4.2853	0.0041283	-1.60213
SH2D2A	0.0120844	2.02574	0.0210689	-1.3314	0.0490969	-2.77655	0.00190058	-2.69706	0.0041498	-5.62456	0.00923322	-2.08544
JOSD1	0.00792942	2.09948	0.0397542	-1.28809	0.107469	-1.16643	0.00242313	-2.70432	0.00286626	-2.4489	0.322898	1.1043
TNFRSF1B	0.020233	1.96224	0.0331211	-1.3886	0.0393683	-1.71477	0.00332439	-2.72476	0.0201941	-3.36479	0.213582	-1.23489
ARAP2	0.0314346	2.19878	0.127249	-1.27426	0.0212175	-1.57524	0.00438966	-2.80182	0.0155901	-3.4636	0.206277	-1.2362
AHNAK	0.00403359	2.09702	0.0493339	-1.36318	0.0374452	-1.79678	0.000701818	-2.85862	0.00751324	-3.76788	0.121815	-1.31808
MBOAT1	0.00036784	1.83845	0.0288504	-1.59938	0.0545976	-2.48837	0.00187957	-2.94037	0.0136203	-4.57474	0.173106	-1.55584
TARP	0.0192343	2.09912	0.0329152	-1.40936	0.0132221	-4.92327	0.00481382	-2.95841	0.00119677	-10.3345	0.0134388	-3.49327
ATP2B4	0.0406576	1.64383	0.00275594	-1.81882	0.0512537	-2.63426	0.0974868	-2.98982	0.0323052	-4.33028	0.201298	-1.44834
GLUL	0.104252	1.48133	0.00351802	-2.12636	0.0630072	-1.92767	0.00876766	-3.14984	0.00116078	-2.85552	0.565709	1.10307
FAM38A	0.0236923	2.03802	0.0118389	-1.57233	0.0115776	-1.71683	0.00567471	-3.20444	0.00197569	-3.49892	0.260166	-1.0919
GALM	0.00808033	1.7292	0.0507968	-1.87951	0.0323659	-2.4578	0.00504867	-3.25006	0.0152853	-4.21195	0.25433	-1.29596
TBX21	0.00152361	2.97171	0.240503	-1.10364	0.035002	-2.05205	0.00272051	-3.27971	0.00657339	-6.09809	0.0585535	-1.85934
UNKNOWN	0.0323405	2.37392	0.189769	-1.39528	0.00247522	-5.34257	0.00350993	-3.31227	0.00112961	-12.6828	0.00855749	-3.82904
HMGB3	0.0155736	1.68247	0.00382397	-2.02835	0.0018968	1.24741	0.00743696	-3.41264	0.0574914	-1.34878	0.00137723	2.53017
IGSF9B	0.0059778	2.14643	0.0288649	-1.60958	0.0798602	2.02718	0.0062595	-3.45483	0.77962	-1.05882	0.0169204	3.2629
IL9R	0.000425002	1.27573	0.0086405	-2.7395	0.0847807	-1.63759	0.00534571	-3.49486	0.0431312	-2.08912	0.113002	1.67289
IL9R	0.000425002	1.27573	0.0086405	-2.7395	0.0847807	-1.63759	0.00534571	-3.49486	0.0431312	-2.08912	0.113002	1.67289
IL2RB	0.00672448	2.80796	0.150478	-1.24565	0.328279	-1.39929	0.00348626	-3.49773	0.0165061	-3.92916	0.652349	-1.12334
LRIG1	0.00893925	2.58571	0.085408	-1.36406	0.0297177	-1.23479	0.00323754	-3.52707	0.00466887	-3.1928	0.25104	1.1047
SLFN11	0.00891487	1.35781	0.00878864	-2.61708	0.013494	-2.72891	0.00842128	-3.55351	0.012338	-3.70535	0.577454	-1.04273
CLDND1	0.00427788	2.94177	0.0176366	-1.23802	0.973314	1.00185	0.00129176	-3.64197	0.00532009	-2.93634	0.0760838	1.24031
STOM	0.00269587	3.15389	0.0424174	-1.20034	0.0344485	-1.94075	0.00259677	-3.78573	0.00965307	-6.12091	0.0936752	-1.61684
EDARADD	0.00997853	3.09673	0.28824	-1.2297	0.489998	-1.31283	0.00297583	-3.80806	0.0224433	-4.06549	0.806947	-1.0676
ERN1	0.0125268	1.91519	0.0200908	-2.03497	0.0073597	-3.0052	0.00386083	-3.89736	0.00518700	-5.75552	0.178128	-1.47678
HNRPLL	0.0320315	1.37181	0.00627977	-2.91008	0.0311274	-3.13523	0.00431571	-3.99206	0.0299005	-4.30093	0.743576	-1.07737
SLAMF1	0.000732404	4.24662	0.766797	1.02942	0.616929	-1.13751	0.00555728	-4.12525	0.0203264	-4.83058	0.371547	-1.17098
AUTS2	0.0381008	1.69322	0.018258	-2.49264	0.00988942	-8.96817	0.000658275	-4.22058	0.0175802	-15.1851	0.00715705	-3.59786
SLC1A4	0.0456114	1.39432	0.0164043	-3.0405	0.0143944	-4.37558	0.00980643	-4.23942	0.010362	-6.10093	0.0129491	-1.4391
MAF	0.0354317	1.60456	0.0264973	-2.64936	0.0098329	-4.4993	0.00614224	-4.25105	0.0113806	-7.21937	0.0197814	-1.69826
ARID5B	0.000307001	2.99031	0.0132295	-1.47146	0.423938	1.17216	0.00464105	-4.40013	0.0226915	-2.55112	0.0415889	1.72478
GNAO1	0.253846	1.41453	0.0328928	-3.11803	0.0128688	-4.8507	0.00416293	-4.41056	0.0118253	-6.86148	0.193277	-1.55569
PTPRM	0.00797741	2.1391	0.0243441	-2.16065	0.00891706	-9.47301	0.00644218	-4.62186	0.0244364	-20.2638	0.0267211	-4.38433
TSPAN18	0.00603435	2.4259	0.00225649	-1.95388	0.178245	-1.79392			0.165273	-1.51062	0.0359629	3.13794
MYO1F	0.00583135	2.96031	0.052977	-1.62434	0.0853022	-2.88121	0.00792721	-4.80854	0.00106004	-8.52927	0.019711	-1.77378
RGS2	0.022378	3.9777	0.366924	-1.22759	0.159616	-2.0389	0.00542704	-4.88297	0.00365624	-8.11014	0.100037	-1.6609
IRF4	0.00462503	6.46448	0.241133	1.30362	0.11049	1.60089	0.000525078	-4.95887	0.0124287	-4.03806	0.381486	1.22803
PHACTR2	0.0197976	2.1235	0.000158255	-2.3582	0.0214872	-2.98937	0.00426335	-5.00763	0.00266193	-6.34793	0.29189	-1.26765
TGFBR3	0.0180451	2.41474	0.00718025	-2.10423	0.0198162	-3.37037	0.00900298	-5.08118	0.00555393	-8.13858	0.0801027	-1.60171
SLC1A2	0.0112494	2.22995	0.0163264	-2.38181	2.52E-06	-3.64526	0.00274559	-5.31132	0.0177255	-7.45975	0.0948659	-1.4045
ST8SIA1	0.00777112	3.9827	0.122733	-1.34792	0.7017	-1.04361	0.0031738	-5.36836	0.000483408	-4.1564	0.127185	1.29159
ITGB1	0.00774226	3.75504	0.0339428	-1.45958	0.948283	-1.0186	0.0076458	-5.4808	0.0675381	-3.82489	0.264232	1.43293
FOSL2	0.00301153	3.95086	0.0217722	-1.41245	0.0299182	-2.03016	0.00034848	-5.58039	0.0019427	-8.02086	0.08759	-1.43733
SYNE1	0.201605	1.52096	0.0194238	-3.84781	0.011236	-6.18976	0.000860825	-5.85246	0.0164851	-9.41438	0.246643	-1.60862
TPRG1	0.0385455	3.04857	0.0240551	-1.93644	0.00314364	-2.38539	0.00532254	-5.90336	0.00790768	-7.27204	0.0660052	-1.23185
TOX	0.0455931	1.78642	0.0463429	-3.34874	0.0603684	-5.03344	0.00188422	-5.98227	0.0177365	-8.99186	0.0933894	-1.50308
MYBL1	0.0689762	3.93023	0.0403337	-1.57598	0.0143397	-5.55765	0.00556547	-6.19395	0.0138638	-23.4149	0.00828717	-3.78029
USP46	0.00239229	2.88694	0.0152922	-2.22805	0.0781054	-1.46279	0.00257131	-6.43226	0.0107032	-4.22299	0.184596	1.52316
PYHIN1	0.0171511	5.12875	0.108847	-1.32085	0.158548	-1.91206	0.00787467	-6.77429	0.00119598	-9.80649	0.25848	-1.4476
HLA-DRA	0.0198138	1.91352	0.0376957	-3.67497	0.0632593	-4.90233	0.00935289	-7.03214	0.027859	-9.38071	0.318017	-1.33398
CHN1	0.034072	3.74673	0.014245	-2.08638	0.377584	-1.29173	0.00579221	-7.15099	0.00423164	-2.65339	0.0498871	2.69504
GPR183	0.00446348	5.17656	0.0433618	-1.40557	0.595562	1.10572	0.00560687	-7.27604	0.026371	-4.29333	0.287464	1.69473
MCOLN2	0.00479449	5.00442	0.0218347	-1.54822	0.359022	-1.39786	0.00649586	-7.74794	0.0388763	-6.99547	0.717618	1.10757
NETO2	0.0013246	3.22444	0.024866	-2.41546	0.0267939	-3.86862	0.00307302	-7.78851	0.0109749	-12.4742	0.27653	-1.60161
ST6GALNAC2	0.00155001	5.0845	0.0233896	-1.63568	0.132357	-2.60026	0.004299	-8.31662	0.0157509	-13.221	0.412178	-1.58971
WEE1	0.0016158	4.14954	0.0407973	-2.13723	0.0603684	-2.35598	0.0363499	-8.8685	0.00964177	-9.77624	0.532789	-1.10236
ZEB2	0.0008667	4.6123	0.0107252	-1.95869	0.0203743	-6.97726	0.00170489	-9.03362	0.00985845	-32.1612	0.129653	-3.56238
CD58	0.00471822	4.26874	0.004386	-2.12697	0.00212238	-2.85231	0.00512353	-9.07948	0.0016947	-12.1758	0.041692	-1.34102
PRR5L	0.0731053	2.12998	0.00642123	-4.34362	0.0242373	-8.68834	0.00200686	-9.25179	0.00894646	-18.5059	0.129653	-2.00025

NCAPH	0.00784854	2.76233	0.0144006	-3.90517	0.0420337	-2.74215	0.00124699	-10.7874	0.00519856	-7.57472	0.172949	1.42413
FAS	0.0038186	6.04861	0.0117875	-1.81016	0.1336	-2.04996	0.0048802	-10.949	0.0154631	-12.3994	0.675078	-1.13247
TIGIT	0.00145008	7.82849	0.0336586	-1.49894	0.470843	-1.31538	0.00352079	-11.7344	0.0164199	-10.2974	0.759548	1.13955
CDH1	0.079209	2.75838	0.0169505	-4.34523	0.134166	2.44033	0.00214294	-11.9858	0.371855	-1.13033	0.00539789	10.6038
EPHA4	0.000455354	10.3023	0.0555098	-1.45813	0.61964	-1.16331	0.00163882	-15.0221	0.0131437	-11.9847	0.332974	1.25344
ENTPD1	0.00890102	9.34916	0.252552	-1.69392	0.312745	1.88698	0.00815629	-15.8367	0.035838	-4.95456	0.026307	3.19639
FLJ16686	0.0185017	3.67103	0.0446678	-4.34908	0.00743623	-7.45856	0.00430776	-15.9656	0.0102081	-27.3806	0.389456	-1.71497
FAM129A	0.00416919	5.87993	0.00515485	-3.46155	0.0196464	-2.71332	0.00447987	-20.3537	0.00705909	-15.9542	0.205219	1.27576
CST7	0.00403939	8.08281	0.0193134	-2.6812	0.0380605	-4.13029	0.00162365	-21.6716	0.00578962	-33.3843	0.372903	-1.54047
CCR4	0.0113644	2.05957	0.0011714	-16.1374	0.202573	-2.67881	0.000864425	-33.236	0.0698114	-5.51719	0.0900197	6.02408
CCL5	0.00444921	32.679	0.74343	-1.03011	0.00503524	-1.43937	0.0075545	-33.663	0.00295064	-47.0371	0.0771795	-1.39729
GZMK	0.00497381	75.0522	0.295884	-1.26205	0.693754	-1.17197	0.00929638	-94.7195	0.00826343	-87.9588	0.829096	1.07686

Supplementary Table 8   Differentially regulated genes among TN and TEM

Gene Symbol	p-value(TSCM vs.TN)	Fold-Change(TSCM vs.TN)	p-value(TSCM vs. TCM)	Fold-Change(TSCM vs. TCM)	p-value(TSCM vs. TEM)	Fold-Change(TSCM vs. TEM)	p-value(TN vs. TCM)	Fold-Change(TN vs. TCM)	p-value(TN vs. TEM)	Fold-Change(TN vs. TEM)	p-value(TCM vs. TEM)	Fold-Change(TCM vs. TEM)
SELL	0.467505	1.06449	0.252693	1.13116	0.00450254	30.0668	0.273967	1.06263	0.00805592	28.2452	0.00826915	26.5806
NRCAM	0.00183407	-8.8258	0.259817	1.92422	0.042739	2.54878	0.0140954	16.9828	0.00265062	22.495	0.384196	1.32458
SULT1B1	0.133697	-5.00719	0.189641	1.83317	0.0590558	4.04532	0.00307328	9.17902	0.00340866	20.2557	0.006361	2.20673
DSC1	0.178677	-1.39142	0.12244	1.96372	0.00361216	14.3569	0.0140565	2.73236	0.00138929	19.9765	0.0126318	7.31107
UBE2E2	0.0536838	-2.75872	0.0251461	2.85764	0.0187504	4.51899	0.009456	7.88343	0.00665592	12.4666	0.275269	1.58137
NOG	0.0287452	-2.36496	0.0183687	4.04517	0.00633113	4.43908	0.00573883	9.56667	0.00410094	10.4982	0.771253	1.09738
LEF1	0.0150759	-1.23562	0.0585569	1.25608	0.00825779	7.34183	0.00538289	1.55204	0.00870699	9.0717	0.0170306	5.84502
LRRN1	0.00325955	-2.67153	0.000883301	1.81412	0.0244968	2.89865	0.000610973	4.84648	0.00324048	7.73848	0.0935411	1.59672
RBM11	0.000510298	-3.21077	0.246056	1.37006	0.039999	2.38066	0.0211581	4.39894	0.0603877	7.64375	0.272525	1.73763
TAF4B	0.0431436	-1.75373	0.354641	1.60411	0.00155366	4.20465	0.066558	2.81318	0.00135155	7.37381	0.112897	2.62117
NBEA	0.00532862	-3.62393	0.989431	1.0011	0.0101654	2.03419	0.00851575	3.62792	0.000182885	7.37175	0.0241657	2.03195
TIMD4	0.392733	-1.1021	0.00292324	3.31465	0.0086716	6.46749	0.000800144	3.65306	0.002142	7.1278	0.0262516	1.95118
KRT73	0.495482	-1.12752	0.0640508	3.25343	0.0173955	6.18711	0.0165664	3.66831	0.00256775	6.9761	0.0142035	1.90172
PTPRK	0.00780948	-3.96543	0.255671	1.30618	0.0238035	1.70926	0.0886956	5.17956	0.00157403	6.77796	0.118497	1.3086
MYB	0.178035	1.33191	0.0098121	2.96185	0.0021667	8.68021	0.0373774	2.22376	0.00177171	6.51711	0.0249431	2.93068
TSHZ2	0.168897	1.41554	0.877598	-1.06727	0.0127453	9.00671	0.188064	-1.51076	0.00243344	6.36273	0.0038939	9.61255
IL6ST	0.00356465	-2.02168	0.63256	1.11083	0.013613	2.85814	0.0310896	2.24575	0.00231292	5.77825	0.00792746	2.57297
PPFIBP2	0.00970509	-1.78824	0.00974233	2.33102	0.00972407	3.1754	0.00200262	4.16844	0.00197413	5.6784	0.0140039	1.36224
SLC40A1	0.00149271	-3.14034	0.0511072	-1.51702	0.0400159	1.71975	0.00605869	2.07008	0.00730159	5.40059	0.0414414	2.60889
GJB6	0.00270628	-1.72597	0.012777	1.96545	0.0278187	3.10529	0.00262196	3.39231	0.00950916	5.35963	0.087846	1.57994
EFHA2	0.13694	-1.78258	0.822686	1.06706	0.0362708	2.78694	0.0846608	1.90212	0.0371172	4.96794	0.0124686	2.61179
BCL9	0.0356847	-2.22703	0.75678	1.04818	0.0486984	2.19311	0.012616	2.33433	0.000248249	4.88412	0.0233955	2.0923
EDAR	0.00829007	-2.20373	0.0674126	1.91592	0.0154425	2.20811	0.00718816	4.22218	0.00906716	4.86607	0.560819	1.1525
LRRC16A	0.001273	-1.69086	0.149743	1.33124	0.00630459	2.8346	0.0286334	2.25094	0.0027091	4.79292	0.0215877	2.1293
SDK2	0.00385422	-2.12094	0.00377969	1.60841	0.0163392	2.24881	0.0014058	3.41134	0.00245489	4.7696	0.107115	1.39816
TPST1	1.00588	-2.18429	0.0358283	2.32851	0.145724	2.14324	0.0470538	5.08614	0.00206249	4.68146	0.664129	-1.08644
LOC129293	0.00310439	-1.66745	0.0203792	1.47186	0.0248137	2.76268	0.00730761	2.45426	0.0084168	4.60664	0.101618	1.877
FAM153B	0.0406805	-1.42768	0.0880125	1.33303	0.00635873	3.1924	0.0602238	1.90314	0.000191942	4.55773	0.0417718	2.39485
CHMP7	0.00585986	-1.63599	0.107089	1.38895	0.010149	2.68467	0.012197	2.27231	0.00416048	4.39209	0.00883477	1.93287
KRT72	0.370173	-1.19011	0.0219252	2.19113	0.0328567	3.65507	0.00455275	2.60769	0.00366967	4.34995	0.066548	1.66812
CAMSAP1L1	0.00503477	-2.74164	0.142829	-1.64365	0.125904	1.53668	0.0667792	1.66802	0.00865233	4.21304	0.030454	2.52578
STXBP1	0.0427608	-1.19438	0.040517	1.42829	0.0171578	3.52361	0.021094	1.70592	0.00822834	4.20853	0.0429125	2.46701
PTK2	0.143369	-1.81875	0.509117	-1.21728	0.0257068	2.29919	0.165636	1.49411	0.0055016	4.18165	0.0595478	2.79876
SLC7A8	0.134083	-3.38121	0.0213103	1.72541	0.472553	1.18727	0.0131846	5.83397	0.0582696	4.0144	0.305484	-1.45326
DEPDC7	0.00403787	-2.36577	0.108697	1.22587	0.0579152	1.64732	0.00766005	2.90012	0.00368158	3.89719	0.120476	1.3438
TXNRD3IT1	0.000190905	-2.79014	0.169291	1.16442	0.0876496	1.37686	0.00419666	3.2489	0.00471325	3.84162	0.424713	1.18244
ANKRD31	0.0107563	-2.47482	0.347277	1.13348	0.0170114	1.529	0.0137527	2.80515	0.00205755	3.78399	0.157542	1.34894
HLA-DOA	0.0227487	-1.82461	0.168711	1.22048	0.00794378	1.99514	0.0126132	2.22691	0.00083481	3.64036	0.0154175	1.63472
MAP1D	0.00668863	-1.65528	0.0636104	1.25916	0.00286378	2.1459	0.00274415	2.08426	0.00184182	3.55207	0.0270446	1.70423
LMO7	0.0293286	-1.5267	0.225677	1.34762	0.0494167	2.28789	0.0613674	2.05741	0.0105863	3.49293	0.127921	1.69773
GNAI1	0.0570724	-1.97769	0.224082	1.41091	0.0233441	1.73246	0.0373971	2.79034	0.00686399	3.42627	0.286034	1.2279
BEND5	0.0315357	-1.36523	0.280312	1.24888	0.00210697	2.47085	0.0382186	1.70501	0.00631391	3.37328	0.0710444	1.97845
ZNF135	0.0272928	-2.11507	0.270104	1.32864	0.0844529	1.5702	0.0356079	2.81016	0.00140868	3.32107	0.415786	1.18181
FAM153C	0.125067	-1.49591	0.0180384	1.31412	0.0312759	2.20418	0.0350747	2.02103	0.00370561	3.29727	0.0443718	1.63147
C17orf48	0.0332872	-1.50435	0.134263	1.37629	0.00305636	2.19066	0.0474169	2.07043	0.00431586	3.29553	0.0379465	1.59171
NELL2	0.723917	1.02997	0.097931	1.34814	0.0145944	3.37801	0.0598252	1.30891	0.00407925	3.27972	0.0129089	2.50569
TMEM220	0.0629253	-2.05968	0.11197	1.52774	0.126272	1.54176	0.0136092	3.14667	0.00523471	3.17554	0.881964	1.00917
GAL3ST4	0.00548412	-1.54171	0.0261167	1.5782	0.0112249	2.02833	0.00233375	2.43312	0.0643157	3.1271	0.180511	1.28522
FAM153B	0.193849	-1.27025	0.0392886	1.36197	0.0104088	2.45113	0.0919282	1.73005	0.000794942	3.11356	0.0573882	1.7997
KIAA0748	0.0304212	-1.1488	0.733517	1.0488	0.0176314	2.67605	0.203334	1.20486	0.00919107	3.07426	0.00748204	2.55155
FAM117B	0.0543794	-1.23605	0.0578279	1.51856	0.00106752	2.4717	0.0117159	1.87071	0.0044003	3.05514	0.0679078	1.62766
OCM2	0.636401	-1.03388	0.332784	1.15258	0.00140659	2.93399	0.194078	1.19162	0.00606448	3.03338	0.00741561	2.54558
UNKNOWN	0.0306585	-1.99901	0.544012	1.14954	0.130622	1.51364	0.0172956	2.29794	0.00715727	3.02578	0.00879112	1.31674
PIM2	0.0058341	-1.53372	0.0458077	1.32401	0.0199871	1.95277	0.0100162	2.03066	0.00362373	2.99501	0.0570805	1.47489
CCNE1	0.0497242	1.19044	0.215854	1.50368	0.00666673	3.39942	0.339731	1.26313	0.0037024	2.8556	0.0277398	2.26074
PRAGMIN	0.00226267	-1.6922	0.00412842	1.78267	0.0015417	1.67908	0.00129176	3.01662	3.06E-05	2.84134	0.280612	-1.06169
C7orf10	0.0244945	-1.66617	0.0582746	1.43872	0.0497306	1.70058	0.0363442	2.39716	0.00215485	2.83345	0.504336	1.182
RGMB	0.0786522	-1.42335	0.10852	-1.05236	0.00667371	1.94006	0.0813559	1.35253	0.00822602	2.76137	0.00712346	2.04164
ZNF542	0.0457114	-1.56389	0.99343	1.00112	0.0157788	1.71632	0.031475	1.56564	0.0040627	2.68413	0.00931137	1.71439
GATM	0.0444068	-1.60419	0.103538	1.43981	0.0785185	1.66718	0.00546567	2.30973	0.00492654	2.67448	0.0381517	1.15792
GIPC3	0.601321	-1.05807	0.0215355	1.75881	0.0270971	2.51613	0.0508373	1.86096	0.00624043	2.66225	0.179056	1.43058
DCBLD2	0.0164805	-1.71595	0.0652256	1.24426	0.0226018	1.52235	0.0118073	2.13508	0.0064452	2.61227	0.00271024	1.2235
OLFM2	0.0253651	-1.76899	0.789233	-1.03761	0.0206436	1.47238	0.0124655	1.70488	0.00874539	2.60463	0.0391688	1.52775
RASGRP2	0.000949898	-1.46816	0.0513667	1.17055	0.0187505	1.77263	0.0078537	1.71855	0.00497162	2.6025	0.0686116	1.51436
HLA-DOA	0.0204796	-1.69404	0.100695	1.15947	0.002569	1.51637	0.0163763	1.96419	0.00419019	2.5688	0.0208659	1.30782
ZNF238	0.203962	-1.14016	0.0892134	1.14537	0.001317	2.21422	0.0217633	1.30591	0.00740518	2.52457	0.0098159	1.93319
CEP68	0.25325	-1.10398	0.805954	1.02092	0.00213062	2.26061	0.431534	1.12707	0.00878429	2.49566	0.00222545	2.21429
NCRNA00185	0.0675367	-1.55998	0.0388164	1.36409	0.0207254	1.57273	0.0108767	2.12795	0.00083016	2.45342	0.207921	1.15295
PITPNM2	0.0144766	-1.3772	0.0565731	1.52133	0.00746167	1.76753	0.0236995	2.09518	0.0097077	2.43424	0.288166	1.16183
PRKAR1B	0.0539305	-1.34666	0.106756	1.53396	0.0364761	1.80251	0.0238604	2.06572	0.00332312	2.42737	0.165213	1.17507
C2orf67	0.00625527	-2.17733	0.625733	1.08461	0.293231	1.10665	0.0103956	2.36154	0.0681867	2.40953	0.909918	1.02032
GPR125	0.0172645	-2.0023	0.530861	1.10385	0.292232	1.20153	0.00710124	2.21025	0.00417349	2.40583	0.0254282	1.08849
SGTB	0.0221219	-1.20704	0.207798	1.1307	0.00171385	1.97479	0.0301383	1.3648	0.000819015	2.38365	0.0197331	1.74652
PDK1	0.00841374	-1.62871	0.074122	1.34283	0.0257501	1.44262	0.014063	2.18709	0.0069736	2.34962	0.481148	1.07431
LDHB	0.119173	-1.11997	0.436715	1.14003	0.00626919	2.06919	0.127475	1.2768	0.0034203	2.31744	0.0345872	1.18904
USP53	0.00440409	-1.45306	0.218398	1.23784	0.00402696	1.55948	0.0480315	1.79865	0.0140702	2.26601	0.260131	1.25984
ZNF563	0.0582653	-1.31166	0.129253	1.1793	0.0417364	1.72719	0.00595824	1.54685	0.00478332	2.26549	0.0173881	1.46458
FAM175A	0.0259439	-1.42372	0.57199	1.06499	0.0534995	1.56898	0.0554787	1.51626	0.00718288	2.23379	0.0419286	1.47323
WNT7A	0.241275	1.11277	0.986515	1.00163	0.00381162	2.48233	0.133267	-1.11095	0.00113532	2.23077	0.00107343	2.47828
TARBP1	0.112316	-1.30742	0.0376591	1.21162	0.039903	1.65594	0.0211711	1.58409	0.00308703	2.165	0.0416924	1.36671
BZW2	0.517911	-1.04219	0.0504053	1.58478	0.00470697	2.06222	0.0446668	1.65163	0.00146712	2.14922	0.187923	1.30127
CHKA	0.200587	-1.22959	0.133024	1.40848	0.0415194	1.72206	0.0265614	1.73185	0.00095064	2.11743	0.0991088	1.22264
CHML	0.0624947	-1.58437	0.116507	1.33885	0.160303	1.31007	0.000570928	2.12123	0.000721969	2.07564	0.602168	-1.02197
ZNF658	0.0804943	-1.2158	0.75626	-1.04002	0.00467559	1.7039	0.10696	1.16902	0.00108089	2.0716	0.0185197	1.77208
ZNF658	0.0804943	-1.2158	0.75626	-1.04002	0.00467559	1.7039	0.10696	1.16902	0.00108089	2.0716	0.0185197	1.77208
CDNF	0.0902825	-1.42817	0.247676	1.28128	0.0865354	1.44337	0.00448224	1.82988	0.000464424	2.06137	0.135369	1.12651
LOC100129858	0.0282274	-1.53688	0.046162	1.28441	0.00389116	1.33879	0.00379543	1.97398	0.00076711	2.05756	0.615454	1.04234
ZNF540	0.0173185	-1.51961	0.0640377	1.15882	0.106407	1.3421	0.000881165	1.76096	0.00464291	2.03947	0.153725	1.15816
ARHGEF18	0.12805	-1.09466	0.166281	1.18196	0.00299012	1.84041	0.146127	1.29384	0.00906876	2.01462	0.022056	1.55708
CCDC102B	0.0266879	-1.62778	0.713671	1.04508	0.211195	1.2319	0.002404	1.70116	0.00527556	2.00526	0.0330209	1.17876
MYO5A	0.00162312	1.26495	0.0191565	-1.2942	0.0146387	-1.59094	0.00315995	-1.6371	0.00561725	-2.01246	0.0830676	-1.22928
UNKNOWN	0.0038029	1.89049	0.0712011	-1.27741	0.288089	-1.07432	0.00880461	-2.41492	0.00416942	-2.03098	0.276215	1.18904
MXD4	0.0961032	1.17643	0.0158364	-1.16811	0.0698693	-1.72865	0.0152805	-1.3742	0.00462567	-2.03363	0.0162773	-1.47996
STK3	0.301619	-1.02938	0.0261143	-1.3899	0.0253634	-2.10413	0.158291	-1.35023	0.002516	-2.04407	0.101916	-1.51387
S1PR5	0.0890665	1.13316	0.711667	-1.02291	0.0204438	-1.80624	0.0671071	-1.15912	0.00785194	-2.04676	0.0316258	-1.76579
GLCCI1	0.764555	-1.02064	0.0391198	-1.2114	0.00184141	-2.1114	0.175364	-1.1869	0.00186222	-2.0687	0.0135549	-1.74294
CCR3	0.332257	1.13681	0.122851	-1.40905	0.00813925	-1.82095	0.00879885	-1.60183	0.0045299	-2.07008	0.100496	-1.29232
SOX13	0.00288035	1.33478	0.324006	-1.17226	0.0229908	-1.56082	0.070436	-1.56471	0.0054786	-2.08335	0.149769	-1.33146
KRTAP5-2	0.0902985	1.30763	0.12593	-1.42248	0.0356102	-1.60471	0.0319261	-1.86009	0.00357893	-2.09837	0.179637	-1.1281
PEA15	0.17974	1.30306	0.0413029	-1.38624	0.0237834	-1.62447	0.0422999	-1.80635	0.0968819	-2.11679	0.28932	-1.17186
PARP8	0.143276	1.24551	0.263114	-1.11876	0.0293839	-1.70519	0.0108165	-1.39342	0.00157726	-2.12383	0.0181473	-1.52418
RNF166	0.00539847	1.48109	0.085839	-1.19568	0.00376137	-1.43976	0.0023905	-1.77091	0.00189272	-2.13242	0.0903178	-1.20414
UEVLD	0.0951844	1.18414	0.0722401	-1.15707	0.00660976	-1.80231	0.0734215	-1.37013	0.00189718343	-2.13418	0.0345749	-1.55765
LIMK1	0.0745953	1.41077	0.851224	-1.02373	0.0436056	-1.62668	0.0048302	-1.44425	0.00142858	-2.14618	0.00890402	-1.48602
SLC6A6	0.000780284	1.1857	0.0805415	-1.29033	0.0678554	-1.82689	0.0334587	-1.52995	0.00472215	-2.16615	0.0688227	-1.41583
SV2A	0.0274877	1.47538	0.0383476	-1.43126	0.077948	-1.47277	0.0263989	-2.11166	0.00193654	-2.17289	0.890612	-1.029
KPNA2	0.0454853	1.96252	0.297285	-1.23295	0.288191	-1.13626	0.00261624	-2.41969	0.00724917	-2.22993	0.311338	1.0851
OSBPL7	0.256352	1.17732	0.192247	-1.16298	0.00158924	-1.8961	0.064702	-1.3692	0.00946996	-2.23231	0.0156358	-1.63037
ST7	0.316896	1.22092	0.0076508	-1.35155	0.0408201	-1.89489	0.0613143	-1.65013	0.000897951	-2.31351	0.0989616	-1.40202
GGA2	0.0118854	1.28946	0.012195	-1.47466	0.0139449	-1.80511	0.00104566	-1.90152	0.00771996	-2.32761	0.166829	-1.22408
PI4K2A	0.0589594	1.63088	0.494224	-1.03051	0.0509999	-1.43295	0.0153142	-1.88963	0.00365835	-2.33697	0.0816519	-1.39053
CD68	0.164411	1.57702	0.222783	-1.21259	0.0140882	-1.498	0.0578473	-1.91227	0.00668586	-2.36237	0.312938	-1.23538
ZAK	0.0427357	1.53141	0.216501	-1.18634	0.0509694	-1.55894	0.0644021	-1.81677	0.00970673	-2.38737	0.172399	-1.31407
RORA	0.442044	1.13692	0.142527	-1.11863	0.0315248	-2.12025	0.126733	-1.27179	0.00503564	-2.41055	0.0242428	-1.8954
TGFBI	0.500172	1.04934	0.0278614	-1.45794	0.0166495	-2.32591	0.0695016	-1.52987	0.00329887	-2.44066	0.107819	-1.59534
DNAJC1	0.00372474	1.35392	0.0220099	-1.2668	0.0088751	-1.80865	0.0080977	-1.70161	0.00568035	-2.44877	0.00307024	-1.43909
JOSD1	0.00792942	2.09948	0.0397542	-1.28809	0.107469	-1.16643	0.00242313	-2.70432	0.00268626	-2.4489	0.322898	1.1043
ZFYVE28	0.638003	-1.08678	0.0770308	-1.48771	0.0252875	-2.66652	0.0246214	-1.36892	0.00128137	-2.4536	0.016929	-1.79237
LRP8	0.0162024	1.72418	0.077867	-1.2301	0.0569478	-1.42652	0.0205279	-2.12092	0.00225768	-2.45958	0.0320529	-1.15967
OSBPL3	0.0211712	1.79924	0.0585216	-1.42369	0.132332	-1.3828	0.0248846	-2.56156	0.00237137	-2.48798	0.892603	1.02957
CMIP	0.0769008	1.47745	0.206157	-1.09228	0.0336688	-1.68756	0.02153	-1.61379	0.00184429	-2.49328	0.0133209	-1.54499
NAT13	0.0372563	1.2115	0.108359	-1.36009	0.0380923	-2.05918	0.0406645	-1.64775	0.00778575	-2.49469	0.10314	-1.514
TGFB1	0.0101953	1.33622	0.0469948	-1.46456	0.0207056	-1.86951	0.013503	-1.95696	0.00145714	-2.49806	0.112797	-1.2765
ANTXR2	0.187654	1.28496	0.188168	-1.31109	0.051597	-1.96055	0.00750196	-1.68469	0.00144343	-2.51923	0.0273915	-1.49536
NR4A3	0.113708	1.25927	0.00472647	-1.41621	0.0272886	-2.01691	0.0281152	-1.78339	0.00798553	-2.53982	0.129834	-1.42416
RDX	0.0367305	1.46557	0.0532985	-1.33982	0.0141902	-1.75633	0.0350974	-1.96361	0.0085556	-2.57403	0.1843	-1.31086
ADCY9	0.0918301	1.27208	0.0139408	-1.11972	0.0107422	-2.0838	0.0321401	-1.42438	0.00106477	-2.65077	0.010489	-1.861
CHN1	0.034072	3.42746	0.014245	-2.08638	0.377584	1.29173	0.00579221	-7.15099	0.00423703	-2.65339	0.0204871	2.69504
CD300A	0.0178617	1.58191	0.236105	-1.04733	0.0557444	-1.694	0.0463915	-1.55013	0.0057703	-2.67976	0.0445859	-1.61745
SCD5	0.0286848	1.49818	0.79484	-1.03116	0.0163297	-1.79293	0.0405694	-1.54487	0.00152224	-2.68613	0.00869013	-1.73875
PTPN22	0.210207	1.22621	0.197651	-1.30247	0.0294579	-2.19815	0.00940798	-1.5971	0.00927075	-2.69538	0.0145564	-1.68767
LGALS1	0.0603649	1.39972	0.0636344	-1.38221	0.0276974	-1.9329	0.0259016	-1.93471	0.00273996	-2.70552	0.0631628	-1.39841
BMPR1A	0.0225153	1.60421	0.00533498	-1.38024	0.00421359	-1.71623	0.0136516	-2.2142	0.00952164	-2.7532	0.00489952	-1.24343
RASGEF1A	0.0703026	1.28329	0.100166	-1.52339	0.0134255	-2.19079	0.0121121	-1.95495	0.00515444	-2.81142	0.0846649	-1.4381
GCNT1	0.0147501	1.9906	0.0128768	-1.47148	0.118838	-1.41263	0.0107974	-2.93008	0.00461388	-2.81199	0.171602	-1.31452
GLUL	0.104252	1.48133	0.0351802	-2.12636	0.0630072	-1.92767	0.00876766	-3.14984	0.00116078	-2.85552	0.565709	1.10307
ABCA2	0.0172253	1.54477	0.116709	-1.12686	0.0277156	-1.89043	0.00511178	-1.74074	0.00096717	-2.92028	0.000767525	-1.67761
CLDND1	0.00427788	2.94177	0.0176366	-1.23802	0.973318	1.00185	0.00129176	-3.64197	0.00532009	-2.93634	0.0760838	1.24031
PAM	0.0199218	1.75101	0.0916121	-1.29998	0.0085671	-1.6828	0.00160009	-2.27628	0.00563512	-2.9466	0.12893	-1.29448
CLCF1	0.0491813	1.7657	0.321312	-1.21508	0.0162762	-1.6778	0.0379304	-2.14546	0.00403981	-2.9625	0.062625	-1.38082
MXRA7	0.0533035	1.46491	0.0653788	-1.25857	0.00732335	-2.02843	0.0202662	-1.8437	0.00551716	-2.97148	0.00429769	-1.61169
CLSTN3	0.00890614	1.53354	0.0764763	-1.34947	0.0172097	-1.99453	0.00422362	-2.06946	0.00209357	-3.05869	0.000126991	-1.47801

ACOT9	0.002024	1.95583	0.326282	-1.10728	0.0100305	-1.57221	0.00444024	-2.16565	0.00101711	-3.07499	0.0458664	-1.41989
METRNL	0.0315461	2.93453	0.576408	-1.10963	0.750361	-1.06907	0.0106401	-3.25623	0.00119388	-3.13721	0.702667	1.03794
BMPR1A	0.0213676	1.7822	0.073292	-1.3352	0.00252175	-1.78118	0.000144383	-2.3796	0.00256272	-3.17442	0.0374275	-1.33401
LRIG1	0.00893925	2.58571	0.085408	-1.36406	0.0297177	-1.23479	0.00323754	-3.52707	0.00466887	-3.1928	0.25104	1.1047
APOBEC3G	0.748311	-1.05892	0.0256602	-1.79605	0.00948943	-3.38529	0.0441537	-1.69612	0.0682943	-3.19694	0.0500511	-1.88485
CACNB3	0.0702367	1.39541	0.0105111	-1.68772	0.00130565	-2.30777	0.0142975	-2.35507	0.00316527	-3.2203	0.0236163	-1.36739
RNF19A	0.0048763	1.79001	0.0864489	-1.46405	0.00646492	-1.80421	0.00759114	-2.62067	0.00135449	-3.22956	0.132191	-1.23234
RAB27A	0.0120287	1.78758	0.0435844	-1.28704	0.0453868	-1.81193	0.00639162	-2.30069	0.00578785	-3.23896	0.0605235	-1.40782
FADS3	0.0712811	1.77896	0.0451474	-1.67029	0.0310213	-1.82114	0.0358407	-2.97137	0.00214633	-3.23973	0.660151	-1.09031
ACTN4	0.0341505	1.51065	0.0431144	-1.43993	0.0280679	-2.25365	0.000328651	-2.17523	0.00792453	-3.40448	0.042838	-1.56511
TBKBP1	0.00293856	1.80721	0.501156	-1.09357	0.0241556	-1.9014	0.0160235	-1.97631	0.00719592	-3.43623	0.0995403	-1.73871
FAM53B	0.0977467	1.26095	0.00335127	-1.71551	0.0167665	-2.75586	0.00374111	-2.16316	0.00468793	-3.47499	0.051909	-1.60644
MAN1A1	0.0176308	1.34504	0.117549	-1.16881	0.00675898	-2.58619	0.00188692	-1.5721	0.00121487	-3.47852	0.00220774	-2.21266
FAM38A	0.0236923	2.03802	0.0118389	-1.57233	0.0115776	-1.71683	0.00567471	-3.20444	0.00197569	-3.49892	0.260166	-1.0919
GRLF1	0.0819647	1.31911	0.00823955	-1.55666	0.0164551	-2.69819	0.0130592	-2.0534	0.00124872	-3.5592	0.0453037	-1.73332
B4GALT5	0.264966	1.23818	0.183661	-1.1777	0.0174164	-2.9661	0.0228849	-1.45821	0.0011084	-3.67257	0.00662494	-2.51855
WIPI1	0.0265406	1.54837	0.0694513	-1.31069	0.0125226	-2.37265	0.01252	-2.02944	0.00330716	-3.67373	0.0557744	-1.81022
DUSP2	0.00432637	1.76475	0.105221	-1.79914	0.0241188	-2.13124	0.0263598	-3.17504	0.00572672	-3.76111	0.203041	-1.18458
UNKNOWN	0.282598	1.29783	0.708101	-1.03054	0.0132068	-2.89842	0.18418	-1.33746	0.00369006	-3.76165	0.0140347	-2.81253
ANXA5	0.0487483	1.47546	0.154798	-1.62814	0.017857	-2.55025	0.0522839	-2.40225	0.00942268	-3.76278	0.0388849	-1.56636
AHNAK	0.00403359	2.09702	0.0493339	-1.36318	0.0374452	-1.79678	0.000701818	-2.85862	0.00751324	-3.76788	0.121815	-1.31808
CLIC1	0.00333307	1.87803	0.195357	-1.42148	0.0225686	-2.04491	0.0221552	-2.66959	0.00300364	-3.84041	0.0665079	-1.43858
MAP3K5	0.0223524	2.21064	0.209135	-1.15874	0.00591493	-1.77036	0.00180736	-2.56157	0.00911751	-3.91363	0.0457219	-1.52783
ST8SIA1	0.00777112	3.9827	0.122733	-1.34792	0.7017	-1.04361	0.0031738	-5.36836	0.00483408	-4.1564	0.127185	1.29159
TARP	0.515606	1.17291	0.590849	-1.07804	0.0152693	-3.64367	0.324498	-1.26444	0.0109062	-4.27368	0.0174563	-3.37991
ADAM8	0.000465304	1.7226	0.00365572	-1.55274	0.00311766	-2.48769	0.00151303	-2.67476	0.0173831	-4.2853	0.00411283	-1.60213
CLIC1	0.00206263	2.07474	0.125021	-1.44159	0.0100777	-2.0698	0.0123989	-2.99093	0.00301585	-4.29431	0.0694171	-1.43578
MATK	0.0241342	1.77404	0.409541	-1.19423	0.00163301	-2.46051	0.0365457	-2.1186	0.00205422	-4.36504	0.0344578	-2.06034
SLFN12L	0.0346639	1.60863	0.0983884	-1.46707	0.00235266	-2.75956	0.013792	-2.35997	0.00868414	-4.43911	0.0652627	-1.881
PIK3R3	0.253422	1.22671	0.00628896	-1.38821	0.0363201	-3.67104	0.0738368	-1.70293	0.00809574	-4.50331	0.0718519	-2.64444
FAM46C	0.000151847	2.38455	0.199178	-1.30603	0.0221943	-1.99378	0.0140223	-3.1143	0.0470007	-4.75429	0.0481726	-1.5266
CLIC1	0.000165968	2.37452	0.190712	-1.34759	0.00943322	-2.04358	0.0148782	-3.19987	0.0188066	-4.85253	0.0741094	-1.51648
ANXA2P2	0.00948222	2.14981	0.0447382	-1.69677	0.00869701	-2.31306	0.0198343	-3.64772	0.00840153	-4.97263	0.014184	-1.36322
CTNNA1	0.0389416	1.60943	0.111984	-1.44082	0.0199904	-3.19215	0.0200334	-2.3189	0.00382756	-5.13752	0.00927605	-2.2155
NPC1	0.0327133	1.63156	0.03474	-1.3467	0.00365103	-3.14888	0.0828624	-2.19723	0.00617869	-5.1376	0.020795	-2.33821
SH2D2A	0.0120844	2.02574	0.0210689	-1.3314	0.00490969	-2.77655	0.00190058	-2.69706	0.0041498	-5.62456	0.00923322	-2.08544
ERN1	0.0125268	1.91519	0.0200908	-2.03497	0.0073597	-3.0052	0.00386083	-3.89736	0.00518703	-5.75552	0.178128	-1.47678
YPEL1	0.0695082	1.89975	0.0215944	-1.69428	0.0348141	-3.15733	0.0286234	-3.2187	0.00851851	-5.99813	0.16276	-1.86352
TBX21	0.00152361	2.97171	0.240503	-1.10364	0.035002	-2.05205	0.00727051	-3.27971	0.00657339	-6.09809	0.0585535	-1.85934
STOM	0.00269587	3.15389	0.0424174	-1.20034	0.0344485	-1.94075	0.000259677	-3.78573	0.00965307	-6.12091	0.0936752	-1.61684
PHACTR2	0.0197976	2.1235	0.000158255	-2.3582	0.0214872	-2.98937	0.00426335	-5.00763	0.00266193	-6.34793	0.29189	-1.26765
GBP5	0.0171298	2.40454	0.560373	1.06214	0.0169404	-2.71925	0.0392015	-2.26386	0.000116626	-6.53855	0.0258359	-2.88823
ADRB2	0.00747954	1.40537	0.114846	-1.84983	0.00623767	-4.67704	0.0531929	-2.5997	0.0033705	-6.57298	0.11066	-2.52836
UNKNOWN	0.0117643	2.91816	0.662053	-1.09569	0.095773	-2.2674	0.0319968	-3.19739	0.00680524	-6.61665	0.146589	-2.06939
PIK3AP1	0.005689	1.50323	0.217086	-1.42813	0.00931001	-4.40381	0.0597582	-2.14681	0.0036406	-6.61996	0.0455906	-3.08362
UNKNOWN	0.0229876	1.56156	0.198417	-1.58827	0.00580939	-4.26118	0.0943058	-2.48018	0.00255969	-6.65407	0.106231	-2.6829
DUSP10	0.0208958	3.10753	0.465729	-1.19387	0.00425221	-2.18633	0.0258938	-3.70999	0.00491971	-6.7941	0.115425	-1.8313
PTGDR	0.0291546	1.58251	0.129484	-1.62677	0.00952846	-4.42195	0.0676344	-2.57438	0.00427871	-6.99778	0.0970549	-2.71823
EOMES	0.00150508	2.93308	0.241966	-1.57202	0.0064771	-2.45894	0.0324695	-4.61087	0.000904876	-7.21227	0.319225	-1.56419
MAF	0.0354317	1.60456	0.0264973	-2.64936	0.0098329	-4.4993	0.00614224	-4.25105	0.00113806	-7.21937	0.0197814	-1.69826
TPRG1	0.0385455	3.04857	0.0240551	-1.93644	0.00314364	-2.38539	0.00532254	-5.90336	0.00790768	-7.27204	0.0660052	-1.23185
NBEAL2	0.0112494	2.22995	0.0163264	-2.38181	2.52E-06	-3.34526	0.00274559	-5.31132	0.00177255	-7.45975	0.0948659	-1.4045
NCAPH	0.00784854	2.76233	0.0144006	-3.90517	0.0420337	-2.74215	0.00124699	-10.7874	0.00519856	-7.57472	0.172949	1.42413
SLC4A4	0.0318743	1.81279	0.238015	-1.28015	0.00889362	-4.22451	0.0245667	-2.32065	0.00966106	-7.65815	0.0522746	-3.30001
FOSL2	0.00301153	3.95086	0.0217722	-1.41245	0.0299182	-2.03016	0.00034848	-5.58039	0.0019427	-8.02086	0.08759	-1.43733
RGS2	0.022378	3.9777	0.366924	-1.22759	0.159616	-2.0389	0.00542704	-4.88297	0.00365624	-8.11014	0.100037	-1.6609
TGFBR3	0.0180451	2.41474	0.00718025	-2.10423	0.0198162	-3.37037	0.00900298	-5.08118	0.00555393	-8.13858	0.0801087	-1.60171
MYO1F	0.00583135	2.96031	0.052977	-1.62434	0.00853022	-2.88121	0.00792721	-4.80854	0.00106004	-8.52927	0.019711	-1.77378
C17orf66	0.0376484	3.78024	0.186116	-1.38676	0.11911	-2.32949	0.0122284	-5.24228	0.000938591	-8.80602	0.17538	-1.67981
CYTH3	0.00253907	1.48984	0.0198375	-2.97495	0.007553	-6.02106	0.0136016	-4.43219	0.00431021	-8.97041	0.142238	-2.02392
WEE1	0.0016158	4.14954	0.0407973	-2.13723	0.0603684	-2.35598	0.00363499	-8.8685	0.00964177	-9.77624	0.523788	-1.10236
PYHIN1	0.0171511	5.12875	0.108847	-1.32085	0.158548	-1.91206	0.00787467	-6.77429	0.00119598	-9.80649	0.25848	-1.4476
F2R	0.00489907	4.54255	0.353924	-1.39095	0.0147183	-2.17584	0.0395073	-6.31848	0.00350518	-9.88387	0.238577	-1.56428
UNKNOWN	0.147581	1.24697	0.0981469	-2.98607	0.00273673	-8.00644	0.0427356	-3.72354	0.00709793	-9.98378	0.173715	-2.68126
TARP	0.0192343	2.09912	0.0329152	-1.40936	0.0132221	-4.92327	0.00481382	-2.95841	0.00119677	-10.3345	0.0134388	-3.49327
THBS1	0.00128369	2.22071	0.539797	-1.06979	0.00260658	-5.30128	0.0062272	-2.37571	0.000626317	-11.7726	1.84E-05	-4.95542
CD58	0.00471822	4.26874	0.004386	-2.12697	0.00212238	-2.85231	0.000512353	-9.07948	0.0016947	-12.1758	0.041692	-1.34102
UNKNOWN	0.0323405	2.37392	0.189769	-1.39528	0.00247522	-5.34257	0.00350993	-3.31227	0.0117961	-12.6828	0.00855749	-3.82904
AUTS2	0.0381008	1.69322	0.018258	-2.49264	0.00989842	-8.96817	0.000658275	-4.22058	0.0175802	-15.1851	0.00715705	-3.59786
FAM129A	0.00416919	5.87993	0.00515485	-3.46155	0.0196464	-2.71332	0.00447987	-20.3537	0.00705909	-15.9542	0.205219	1.27576
TNIP3	0.0221607	5.32963	0.00242619	-1.7967	0.0487888	-3.08583	0.0110076	-9.57576	0.00687684	-16.4463	0.14262	-1.7175
GZMA	0.0285766	3.13224	0.0424644	-1.85988	0.0498932	-5.5604	0.0299847	-5.82559	0.0054521	-17.4165	0.170594	-2.98966
PRR5L	0.0731053	2.12998	0.00642123	-4.34362	0.0242373	-8.68834	0.0200686	-9.25179	0.0089464	-18.5059	0.129653	-2.00025
PRDM1	0.0304914	3.57947	0.017462	-1.90451	0.0126955	-5.26597	0.014421	-6.81716	0.00906542	-18.8494	0.0654186	-2.76499
PLXND1	0.00372958	3.96404	0.0681041	-2.04155	0.00984386	-4.84705	0.0125457	-8.09279	0.00266967	-19.2139	0.0179859	-2.3742
PTPRM	0.00797741	2.1391	0.0243441	-2.16065	0.00891706	-9.47301	0.00644218	-4.62186	0.00244364	-20.2638	0.0267211	-4.38433
GFPT2	0.127771	1.42217	0.0825679	-2.50871	0.00251549	-15.1223	0.0133483	-3.56781	0.00776565	-21.5065	0.050043	-6.02793
MYBL1	0.00689762	3.93023	0.0403337	-1.57598	0.0143397	-5.95765	0.000565471	-6.19395	0.00138638	-23.4149	0.00828717	-3.78029
SLAMF7	0.0103119	7.8903	0.122157	-1.66587	0.0520135	-3.28399	0.0106099	-13.1442	0.0680425	-25.9117	0.277429	-1.97134
ZEB2	0.0208667	4.6123	0.00107252	-1.95859	0.0203743	-6.97726	0.00170489	-9.03362	0.00985865	-32.1812	0.0393127	-3.56238
CST7	0.00403939	8.08281	0.0193134	-2.6812	0.0380605	-4.13029	0.00162365	-21.6716	0.00579862	-33.3843	0.372903	-1.54047
CCL5	0.00444921	32.679	0.74343	-1.03011	0.00503524	-1.43937	0.0075545	-33.663	0.00295064	-47.0371	0.0771795	-1.39729
GZMK	0.00497381	75.0522	0.295884	-1.26205	0.693754	-1.17197	0.00929638	-94.7195	0.00826343	-87.9588	0.829096	1.07686
KLRB1	0.0339963	2.77399	0.0407932	-3.60879	0.0158797	-48.7918	0.0320763	-10.0107	0.00394754	-135.348	0.0608441	-13.5203

Supplementary Table 9   Differentially regulated genes among TCM and TEM

Gene Symbol	p-value(TSCM vs.TN)	Fold-Change(TSCM vs.TN)	p-value(TSCM vs. TCM)	Fold-Change(TSCM vs. TCM)	p-value(TSCM vs. TEM)	Fold-Change(TSCM vs. TEM)	p-value(TN vs. TCM)	Fold-Change(TN vs. TCM)	p-value(TN vs. TEM)	Fold-Change(TN vs. TEM)	p-value(TCM vs. TEM)	Fold-Change(TCM vs. TEM)
SELL	0.467505	1.06449	0.252693	1.13116	0.00459254	30.0668	0.273967	1.06263	0.00805592	28.2452	0.00826915	26.5806
CDH1	0.079209	2.75838	0.0169505	-4.34523	0.134166	2.44033	0.00214294	-11.9858	0.371855	-1.13033	0.00539789	10.6038
TSHZ2	0.168897	1.41554	0.877598	-1.06727	0.0127453	9.00671	0.188064	-1.51076	0.00243344	6.36273	0.0038939	9.61255
SESN3	0.0427483	2.57498	0.0819508	-1.17751	0.00157746	6.14378	0.028145	-3.03206	0.075412	2.38595	0.00102589	7.23433
IL6ST	0.00356465	-2.02168	0.63256	1.11083	0.013613	2.85814	0.0310896	2.24575	0.00231292	5.77825	0.00792746	2.57297
KIAA0748	0.0304212	-1.1488	0.733517	1.0488	0.0176314	2.67605	0.203334	1.20486	0.00918107	3.07426	0.00748204	2.55155
OCM2	0.636401	-1.03388	0.332784	1.15258	0.00140659	2.93399	0.194078	1.19162	0.000606448	3.03338	0.00741561	2.54558
HMGB3	0.0155736	1.68247	0.00382397	-2.02835	0.0018968	1.24741	0.00743696	-3.41264	0.0574914	-1.34878	0.00137723	2.53017
WNT7A	0.241275	1.11277	0.986515	1.00163	0.00381162	2.48233	0.133267	-1.11095	0.00113532	2.23077	0.00107343	2.47828
CEP68	0.25325	-1.10398	0.805954	1.02092	0.00213062	2.26061	0.431534	1.12707	0.00878429	2.49566	0.00222545	2.21429
SULT1B1	0.0133697	-5.00719	0.189641	1.83317	0.0590558	4.04532	0.00307328	9.17902	0.00340866	20.2557	0.006361	2.20673
C16orf45	0.0565525	1.55575	0.996177	1.00061	0.0247002	2.09759	0.0675854	-1.55479	0.0526339	1.34828	0.00630052	2.0963
SFXN1	0.0327926	1.17265	0.151773	-1.15786	0.0185127	1.78087	0.0237491	-1.35776	0.0253302	1.51867	0.000878525	2.062
RGMB	0.0786522	-1.42335	0.10852	-1.05236	0.00667371	1.94006	0.0813559	1.35253	0.00822602	2.76137	0.00712346	2.04164
SH2D2A	0.0120844	2.02574	0.0210689	-1.3314	0.00490969	-2.77655	0.00190058	-2.69706	0.0041498	-5.62456	0.00923322	-2.08544
GALNT10	0.0988065	1.1232	0.0908845	1.27651	0.0417848	-1.66546	0.391697	1.1365	0.050958	-1.87064	0.00161641	-2.12597
OSBPL5	0.00425357	-2.09942	0.543527	1.05539	0.028139	-2.05199	0.0147978	2.21571	0.875666	1.02311	0.00545625	-2.16566
MAN1A1	0.0176308	1.34504	0.117549	-1.16881	0.00675898	-2.58619	0.00188692	-1.5721	0.00121487	-3.47852	0.00220774	-2.21266
CTNNA1	0.0389416	1.60943	0.111984	-1.44082	0.0199904	-3.19215	0.0200334	-2.3189	0.00382756	-5.13752	0.00927605	-2.2155
B4GALT5	0.264966	1.23818	0.183661	-1.1777	0.0174164	-2.9661	0.0228849	-1.45821	0.0011084	-3.67257	0.00662494	-2.51855
FASLG	0.429314	1.05158	0.045263	-2.30097	0.0168423	-5.92944	0.0530057	-2.41965	0.0203691	-6.23528	0.00328631	-2.57694
AUTS2	0.0381008	1.69322	0.018258	-2.49264	0.00988942	-8.96817	0.000658275	-4.22058	0.00175802	-15.1851	0.00715705	-3.59786
MYBL1	0.00689762	3.93023	0.0403337	-1.57598	0.0143397	-5.95765	0.000565471	-6.19395	0.00138638	-23.4149	0.00828717	-3.78029
UNKNOWN	0.0323405	2.37392	0.189769	-1.39528	0.00247522	-5.34257	0.00350993	-3.31227	0.00112961	-12.6828	0.00855749	-3.82904
GALNT3	0.0749899	1.25115	0.56637	-1.11177	0.0328758	-5.20491	0.259545	-1.391	0.0355054	-6.51215	0.0094753	-4.68164
THBS1	0.00128369	2.22071	0.539797	-1.06979	0.00260658	-5.30128	0.0062272	-2.37571	0.000626317	-11.7726	1.84E-05	-4.95542
GNLY	0.133664	1.92029	0.0312633	-2.30714	0.00993863	-15.0732	0.0672587	-4.43037	0.0178439	-28.9449	0.00889462	-6.53329
ST8SIA6	0.470914	1.12935	0.0933289	-2.44753	0.0141034	-16.9712	0.114817	-2.76411	0.022599	-19.1663	0.00395659	-6.93401

Supplementary Methods

Enumeration of adoptively transferred T cells into NSG mice. CD8-enriched PBMC were sorted into T_N, T_{SCM}, T_{CM} and T_{EM}. CD8- PBMC resulting from the negative selection of CD8$^+$ T cells were stained with FITC anti-CD8 Ab and sorted on a FACSAria to avoid any possible contamination by remaining CD8$^+$ T cells. We adoptively transferred via i.v. injection at least 5 x 10^6 CD8$^-$ PBMC with or without 10^6 sorted subset-specific T cells per mouse. Three replicate mice received the same T cell subset to avoid variability due to the inefficiency of the engraftment. Mice were sacrificed five weeks after adoptive transfer. Spleen, liver, lungs and LN were minced and meshed on the top of a 100 μm cell strainer (BD Biosciences); total bone marrow was obtained by flushing the femurs with Hank's balanced salt solution. Mononuclear cells were then isolated by Ficoll gradient centrifugation. Cell suspensions were stained with ViViD as described above and with a cocktail of fluorescently-conjugated mAbs directed to surface antigens, including Cy7PE rat anti-mouse CD45 (mCD45) and Cy5PE mouse anti-human CD45 (hCD45) to detect both mouse and human cells, respectively. To determine the total live cell count, aliquots of cells were resuspended in a solution containing ethidium bromide and acridine orange (Invitrogen), and counted using a Cellometer (Nexcelom Biosciences). Total cell counts per single organ were calculated as the number of live mCD45$^+$ and hCD45$^+$

cells in the lymphocyte gate. Complete Blood Counts (NIH Clinical Laboratory) revealed the number of circulating cells in the blood.

Determination of telomerase activity

Telomerase activity was evaluated using TRAPeze Telomerase Detection Kit (EMD Millipore). Quantification of the amount of telomerase product was determined using the following formula:

$$TPG \text{ (units)} = [(x - x_o) / c] / [(r - r_o) / c_R] \times 100$$

x = TRAP product ladder bands from all non-heat-treated samples; x_o = TRAP product ladder bands from all heat-treated samples; r =TSR8 quantitation control; r_o = primer-dimer/PCR contamination control; c = internal standard (S-IC) in non-heat-treated samples; c_R = internal standard (S-IC) in TSR8 quantitation control. Each unit of TPG corresponds to the number of TS primers (in 1×10^{-3} a mole or 600 molecules) extended with at least 4 telomeric repeats by telomerase in the extract in a 30 minute incubation at 30°C.

Full gene names of selected transcripts

LEF1, lymphoid enhancer-binding factor 1; *ACTN1*, actinin, alpha 1; *FOXP1*, forkhead box P1; *IL6ST*, interleukin 6 signal transducer (gp130, oncostatin M receptor); *LASS6*, LAG1 homolog, ceramide synthase 6; *TAF4B*, TAF4b RNA

polymerase II, TATA box binding protein (TBP)-associated factor, 105kDa; *EOMES*,

eomesodermin; *GZMA*, granzyme A (granzyme 1, cytotoxic T-lymphocyte-associated

serine esterase 3); *TBX21*, T-box 21; *PRF1*, perforin 1 (pore forming protein);

PRDM1, PR domain containing 1, with ZNF domain; *KLRG1*, killer cell lectin-like

receptor subfamily G, member 1; *ALOX5AP*, arachidonate 5-lipoxygenase-activating

protein; *TGFBR3*, transforming growth factor, beta receptor III; *PHACTR2*,

phosphatase and actin regulator 2; *FAM129A*, family with sequence similarity 129,

member A; *CD58*, CD58 molecule; *TOX*, thymocyte selection-associated high

mobility group box; *HNRPLL*, heterogeneous nuclear ribonucleoprotein L-like;

SLFN11, schlafen family member 11; *DUSP4*, dual specificity phosphatase 4; *PRR5L*,

proline rich 5 like; *GLUL*, glutamate-ammonia ligase; *IL9R*, interleukin 9 receptor;

HMGB3, high mobility group box 3; *CCR4*, chemokine (C-C motif) receptor 4; *MYB*,

v-myb myeloblastosis viral oncogene homolog (avian); *TIMD4*, T-cell

immunoglobulin and mucin domain containing 4; *PPFIBP2*, PTPRF interacting

protein, binding protein 2 (liprin beta 2); *FCER1G*, Fc fragment of IgE, high affinity I,

receptor for; gamma polypeptide; *IGF1R*, insulin-like growth factor 1 receptor.

Supplementary references

1. Romero, P. *et al.* Four functionally distinct populations of human effector-memory CD8+ T lymphocytes. *J. Immunol.* **178**, 4112-4119 (2007).