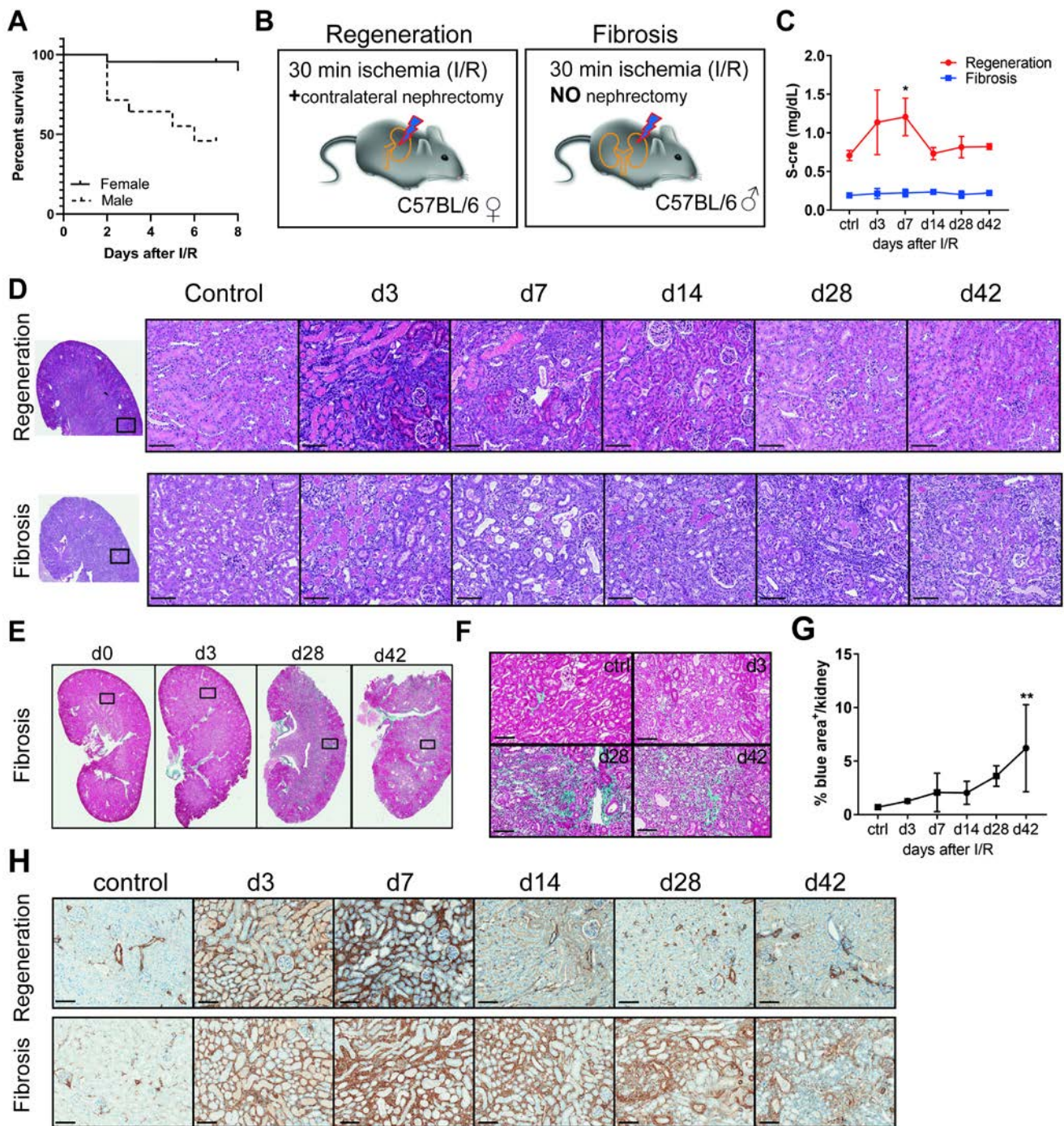


Materials table I: Antibodies used for immunohistochemistry and immunofluorescence.

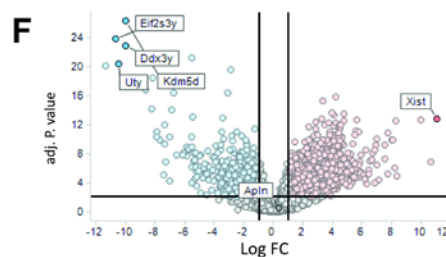
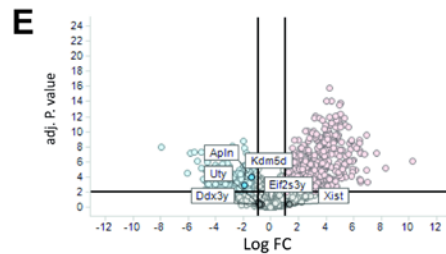
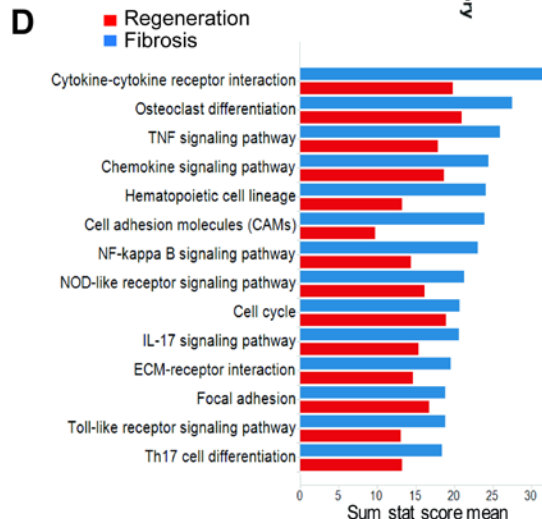
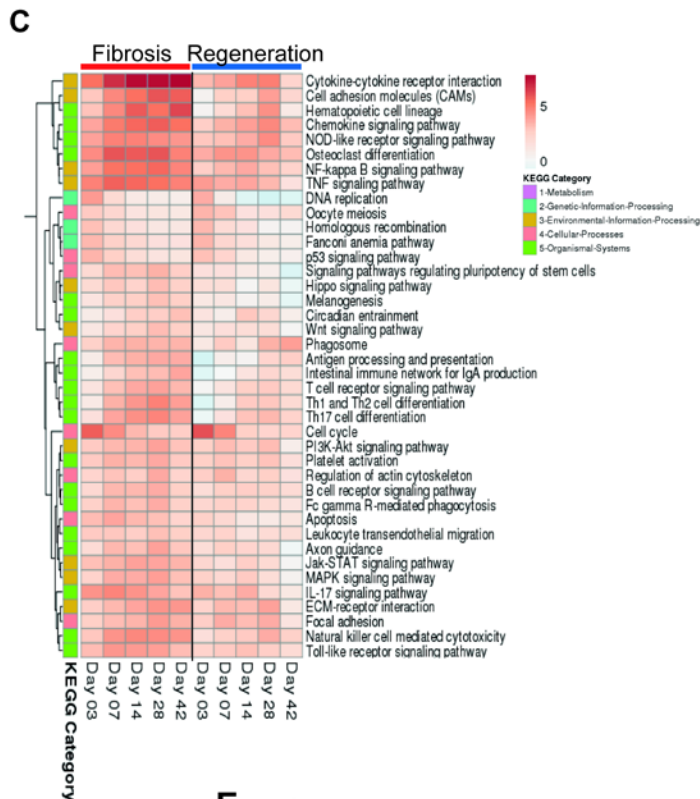
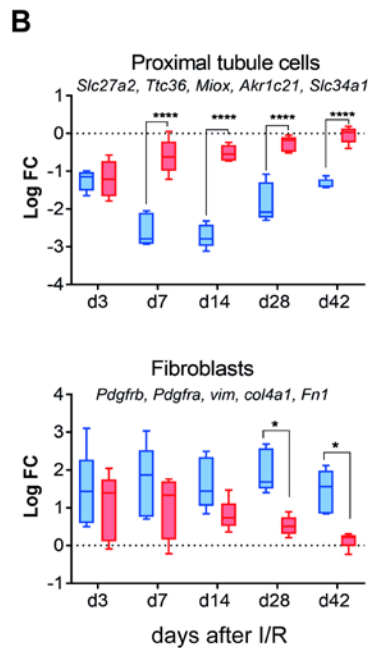
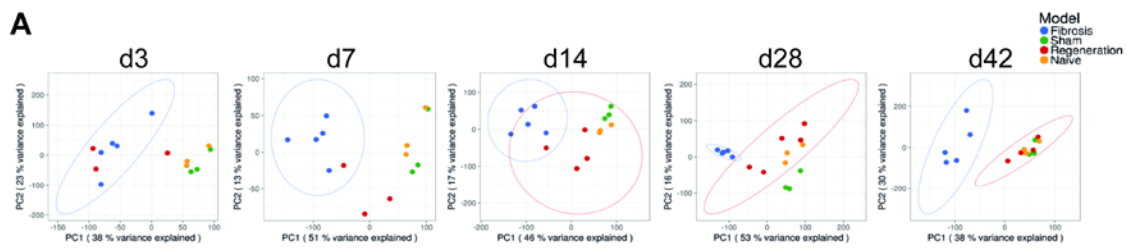
Antibody	Clone	Reference	Supplier	Host
SMA	pAb	ab124964	Abcam	rabbit
CD3	SP7	RM-9107-S	Thermo	rabbit
Iba1	pAb	019-19741	Wako	rabbit
F4-80	D2S9R	70076	Cell Signaling	rabbit
FoxP3	1054C	MAB8214	RD systems	rabbit
CD3	LN10	NCL-L-CD3-565	Novocastra	mouse
CD68	PG-M1	M0876	Agilent (ehemals Dako)	mouse
FoxP3	SP97	ab99963	Abcam	rabbit

Materials Table II: TaqMan probes

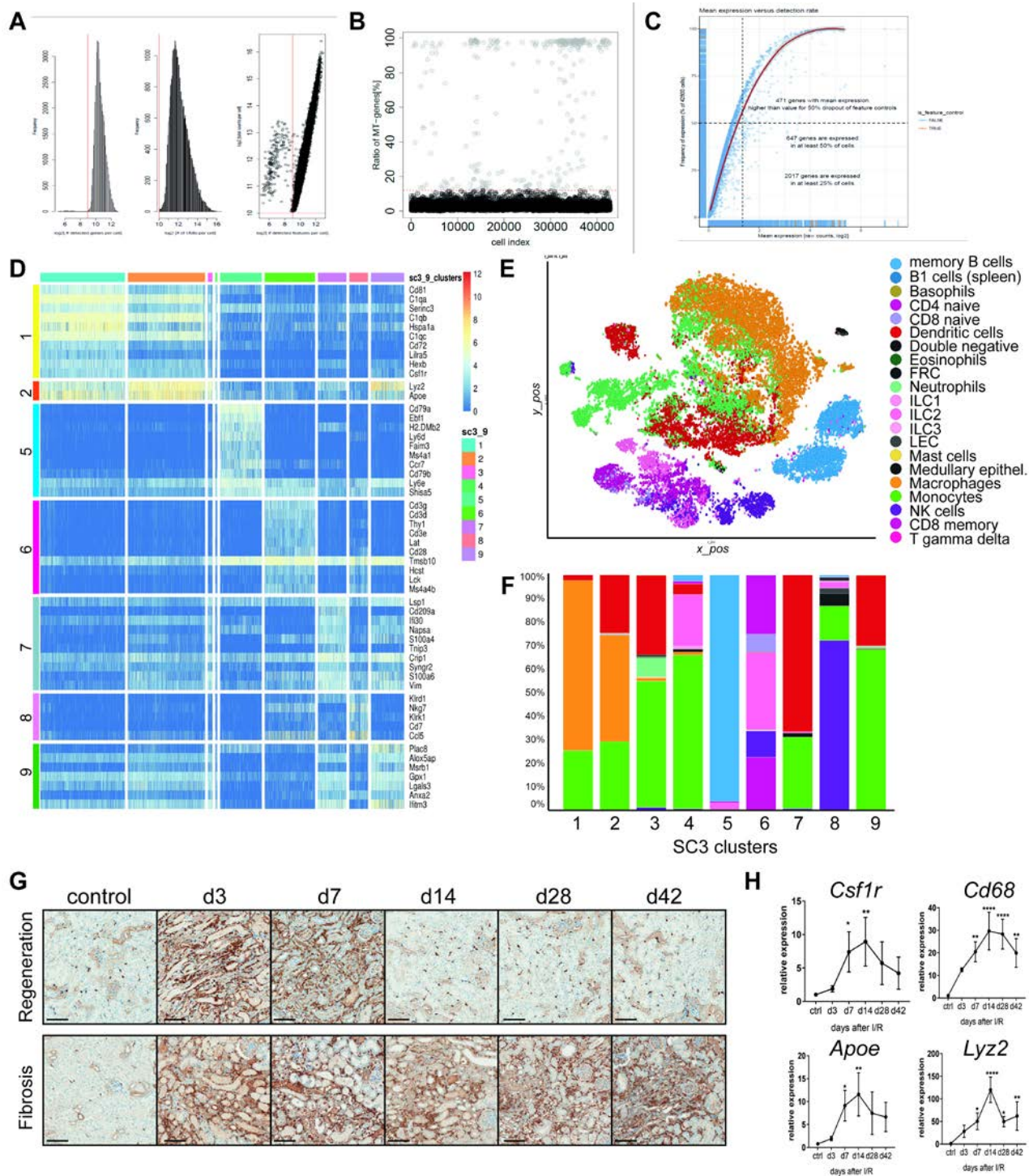
TaqMan Gene Expression Assay 20X	Gene	Catalogue Number
GAPDH	housekeeping	Mm99999915_g1
TBP (TATA-box binding protein)	housekeeping	Mm00446971_m1
KIM-1 (HAVCR1)	Kidney injury marker	Mm00506686_m1
NGAL (LCN2)	Neutrophil gelatinase-associated lipocalin	Mm001324470_m1
IL-1 beta	interleukin- 1 beta	Mm00434228_m1
VIM	vimentin	Mm01333430_m1
TNC	tenascin C	Mm00495662_m1
TGF-beta 1	transforming growth factor beta 1	Mm01178820_m1
COL1A1	collagen type I alpha 1	Mm00801666_g1
FN1	fibronectin 1	Mm01256735_m1
Osteopontin = SPP1	secreted phosphoprotein 1	Mm00436767_m1



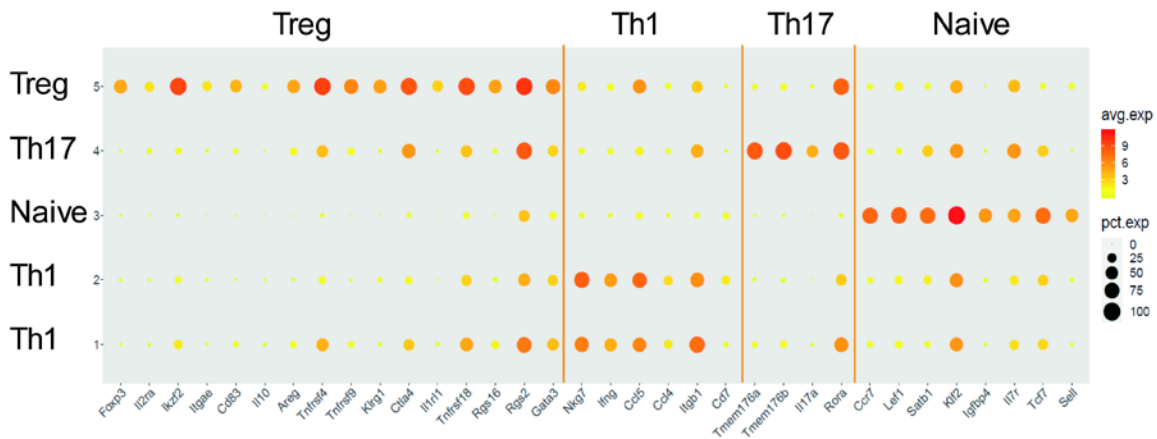
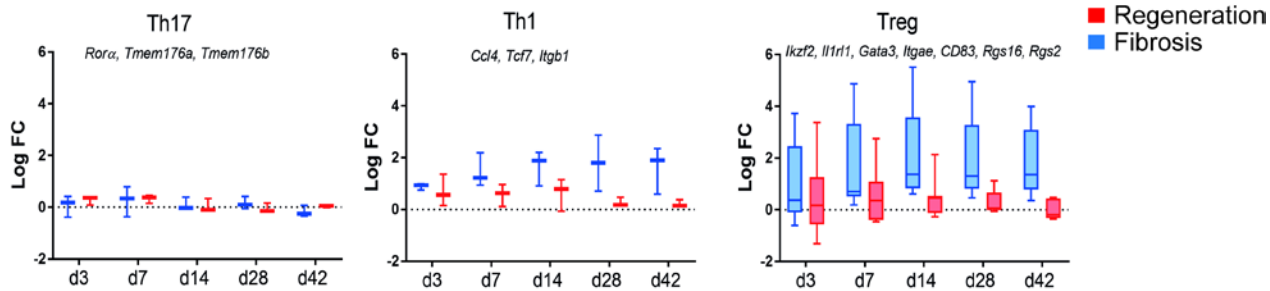
Supplemental Figure 1: Characterization of two ischemia reperfusion Kidney injury (I/R) models to study regeneration and fibrosis. (A) Kaplan-meier survival curve of males and females subjected to 30 min I/R injury with contralateral nephrectomy (Regeneration model). (B) Schematic representation of the surgical protocol for fibrosis (left) and regeneration (right). (C) Serum creatinine (S-cre) measurements at indicated time points after injury, for fibrosis (blue) and regeneration (red) models. (D) Representative images of H&E staining in Regeneration (top) and Fibrosis (bottom) at indicated time points after injury, compared to sex-matched naive or sham control mice. Pictures at a higher magnification are taken from the cortico-medullary junction areas indicated on the squares from kidney images on the left. (E) Gomori's Trichrome staining in kidneys from fibrosis model, at indicated time points. (F) Higher magnification of zones in squares from D, showing collagen fiber deposition, in blue. (G) Gomori's Trichrome positive blue area morphometric quantification for indicated time points, referring to images in E and F. (H) Representative smooth muscle actin (SMA) staining on kidney sections at indicated time points, from Regeneration (top panels) and Fibrosis (bottom). Scale bars: 100 μ m. Results are representative of (A) two (males, n=14) or three (females, n=22) independent experiments and (C-H) one (regeneration model) or two (fibrosis model) independent experiments, with 3-5 mice per time point/condition. Mean \pm SEM. * $p < 0.05$, ** $p < 0.01$, compared with controls by 2-way ANOVA followed by Dunnett's post hoc test for multiple comparisons (C) or one-way ANOVA with Turkey's multiple comparisons test (G).



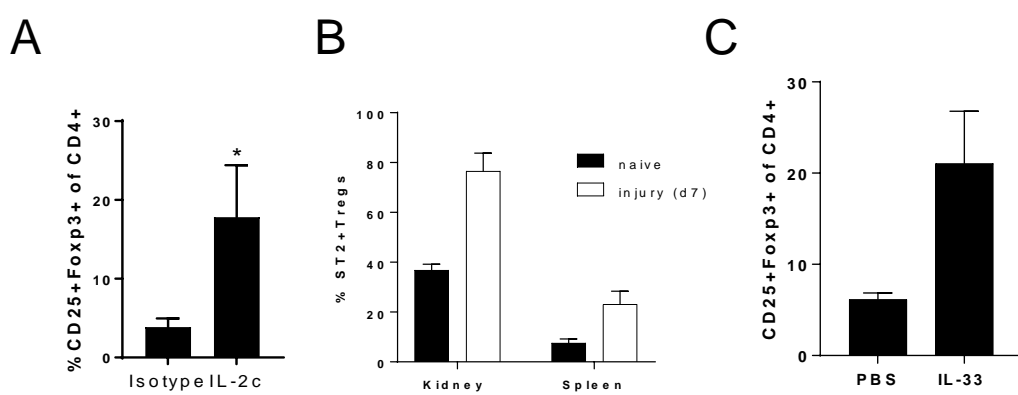
Supplemental Figure 2: Bulk RNA-seq analysis on kidney regeneration and fibrosis models. Time course RNAseq analysis after kidney injury in regeneration and fibrosis models, compared to age- and sex-matched naïve and sham control mice. **(A)** Principal Component Analysis (PCA) for the indicated time points. **(B)** Kidney cell deconvolution: Log Fold change (FC) of the indicated genes that characterize each cell type, relative to control samples. **(C)** Heatmap with hierarchical clustering showing the up-regulated KEGG pathways (categories 1-5). **(D)** Enrichment analysis of KEGG pathways on DE genes from C. Selected top up-regulated pathways between regeneration (red) and fibrosis (blue), from all time points, ranked by p-value. **(E and F)** Volcano plots showing the fold change (FC) versus p value of DE genes from the comparison between **(E)** sex-matched versus non-sex matched controls **(F)**. Sex related genes (e.g. X inactive specific transcript, Xist) are not differentially expressed in E.



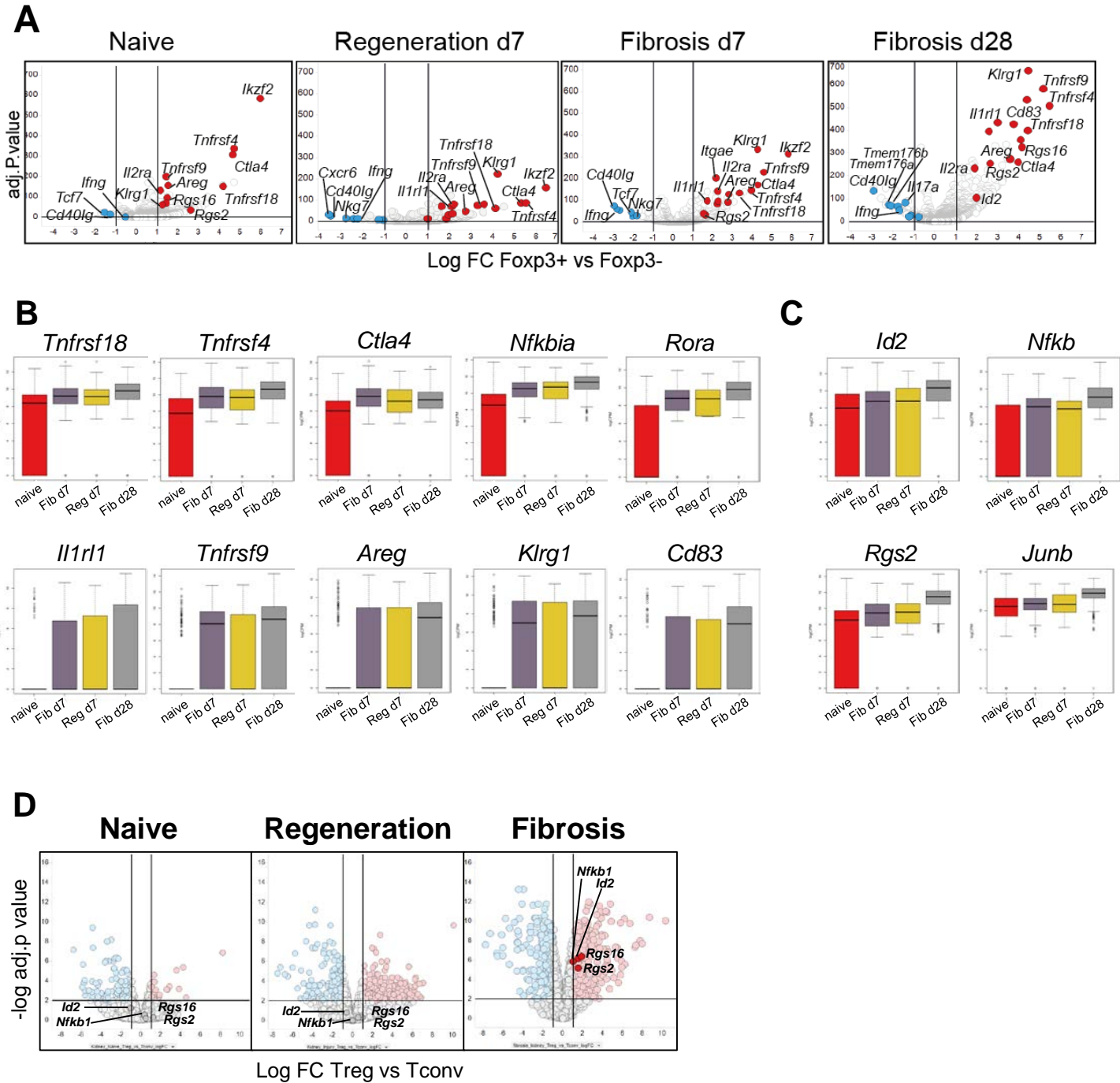
Supplemental Figure 3: Single cell RNA-seq reveals accumulation of macrophages and T cells after kidney injury. (A-C) Representative plots of the quality control steps, used to filter out poor quality cells for downstream analysis. (D) SC3 derived marker genes for each cell cluster and respective cell type assignment in A. Clusters 3 and 4 had too few cells and no marker genes could be identified, therefore could not be assigned to a known cell type. (E) Same T-SNE as in figure 2A, showing the overlay of Immgen immune cell types. Over 20 immune cell types could be identified. Related cell types were colored similarly. (F) Frequencies of each Immgen cell type within each of the 9 SC3 identified clusters from Figure 2A. (G) Representative images of Iba1 staining in regeneration (top) and fibrosis (bottom) at indicated time points after injury, compared to control mice. (H) qPCR validation on whole kidney extracts from fibrosis samples, for the selected macrophage genes, shown as fold change relative to control samples. Scale bars: 100 μ m. Results are representative of one (regeneration model) or two (fibrosis model) independent experiments, with 3-5 mice per time point/condition. Mean \pm SEM. * $p < 0.05$, ** $p < 0.01$, **** $p < 0.0001$ compared with controls by one-way ANOVA followed by Dunnett's post hoc test for multiple comparisons (H).

A**B**

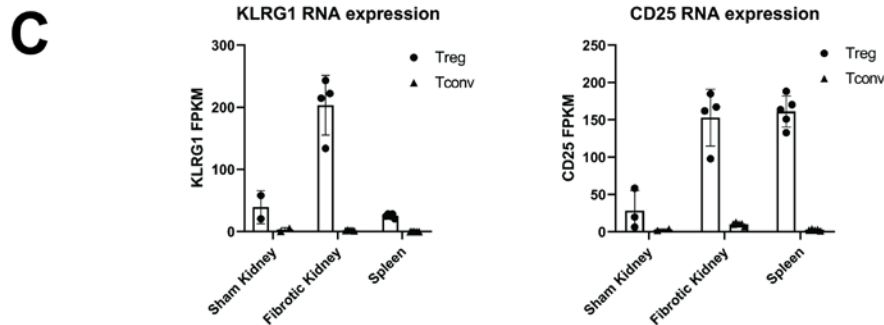
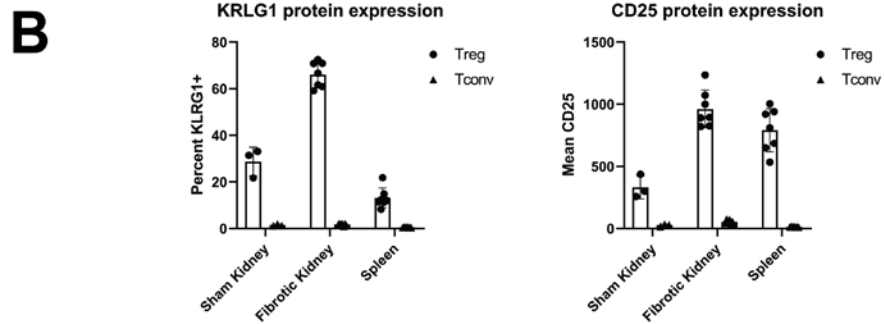
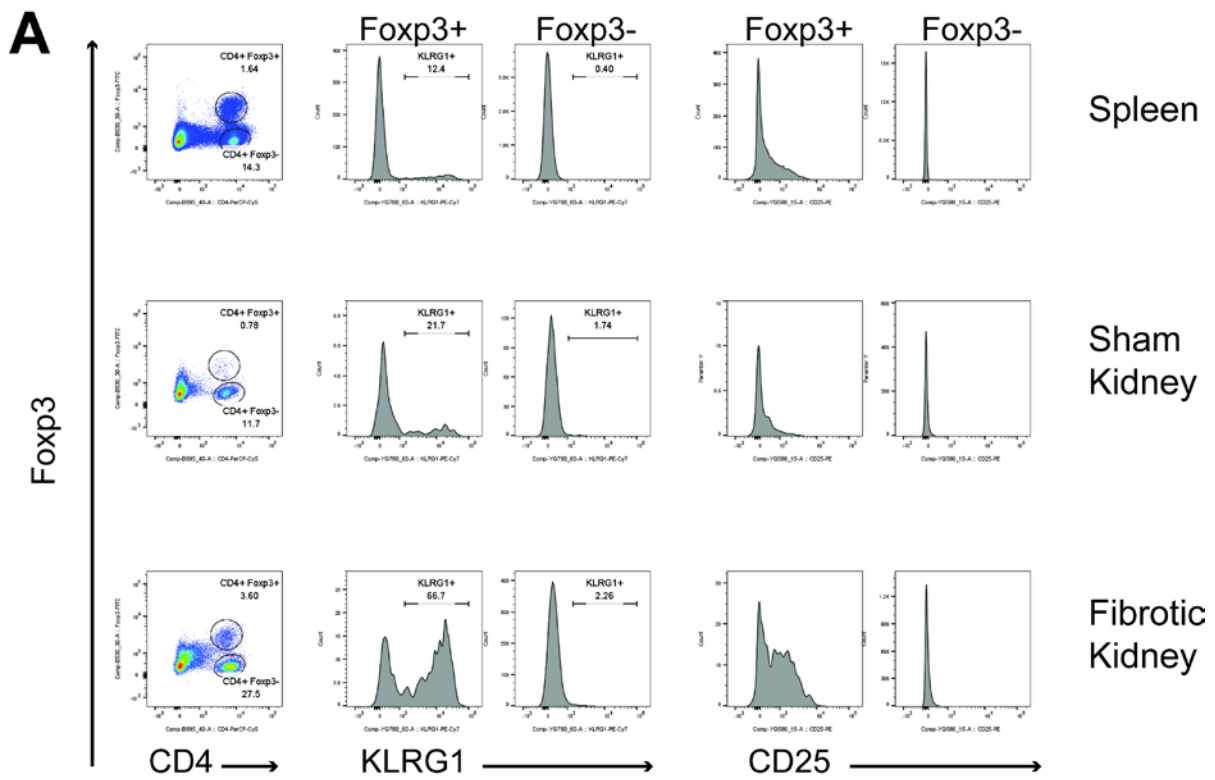
Supplemental Figure 4: CD4⁺ T cell marker genes expression and deconvolution analysis. (A) Seurat-derived dot plot showing the average (colors) and percentage (size) of expression of the indicated marker genes for the 5 clusters, relative to Figure 3A. **(B)** Immune cell deconvolution analysis using signature genes from A, in whole kidney bulk RNAseq (relative to Figure 1C), showing the Log FC of the indicated genes that characterize each cell type, relative to control samples for regeneration (red) and fibrosis (blue).



Supplemental Figure 5: IL-2c and IL-33 expand kidney Tregs in vivo. (A) Frequency of Tregs (CD25⁺Foxp3⁺ of CD4⁺) in kidneys from mice treated with a mixture of IL2-IL2mab (IL2c) or isotype control, 3x/week for one week. Samples were harvested and analyzed 7 days after initial treatment. **(B)** Frequency of ST2⁺ Tregs in kidney and spleen from naive and 7 days after kidney injury. **(C)** Frequency of Tregs in kidneys from mice treated with IL-33 or PBS, 3x/week for one week. Samples were harvested and analyzed 7 days after initial treatment. Results are representative of at least two independent experiments, with 3-5 mice per group. Mean \pm SEM. * $p < 0.05$, by two-tailed Student's *t*-Test.



Supplemental Figure 6: Kidney single cell and bulk RNA-seq derived Treg signatures. (A) Volcano plots showing the Log FC vs p-value for DE genes between Foxp3+ vs Foxp3- cells, for indicated conditions, extracted from single cell RNA-seq analysis (relative to Figure 3A). Highlighted are Treg signature genes (red) and T conventional marker genes (blue). **(B-C)** DE gene analysis comparing Foxp3+ Tregs between naive, regeneration and fibrosis. **(B)** Selected genes that had higher expression in Foxp3+ Tregs after kidney injury versus naive Tregs or **(C)** in Tregs from Fibrosis d28 versus all other Tregs. **(D)** Same volcano plots as in Figure 5B, highlighting the four transcription factors from C which were differentially expressed in Tregs during fibrosis.



Supplemental Figure 7: Expression of activation markers in Treg and Tconv in kidney and spleen after injury. Male mice were subjected to IRI, fibrosis model. CD45⁺ immune cells were isolated from kidney and spleen 28 days after injury. Samples were either analyzed by flow cytometry or sorted into Fopx3-GFP⁺ Treg or Fopx3-GFP⁻ Tconv for bulk RNA-seq analysis (relative to Figure 5). **(A)** Representative FACS plots showing the expression of KLRG1 and CD25 on Treg and Tconv from kidney and spleen **(B)** and quantification. **(C)** RNAseq average expression values (FPKM, fragments per kilobase of exon model per million reads mapped) of KLRG1 and CD25 on sorted Treg and T conv cells, at the indicated conditions. Results are representative of 2 independent experiments with 3-5 mice per group.

Supplemental Table I: SC3-based cluster-specific CD45+ marker genes list

gene_id	symbol	auroc	clusts
ENSMUSG00000037706	Cd81	0.940224	1
ENSMUSG00000036887	C1qa	0.914691	1
ENSMUSG00000036905	C1qb	0.910791	1
ENSMUSG00000091971	Hspa1a	0.90868	1
ENSMUSG00000017707	Serinc3	0.908373	1
ENSMUSG00000024610	Cd74	0.902676	1
ENSMUSG00000036896	C1qc	0.898089	1
ENSMUSG00000060586	H2-Eb1	0.895397	1
ENSMUSG00000070873	Lilra5	0.888064	1
ENSMUSG00000028459	Cd72	0.88311	1
ENSMUSG00000073421	H2-Ab1	0.882334	1
ENSMUSG00000036594	H2-Aa	0.868326	1
ENSMUSG00000021665	Hexb	0.864316	1
ENSMUSG00000021998	Lcp1	0.850766	1
ENSMUSG00000052684	Jun	0.850747	1
ENSMUSG00000024621	Csf1r	0.850342	1
ENSMUSG00000029810	Tmem176b	0.845657	1
ENSMUSG00000018930	Ccl4	0.840913	1
ENSMUSG00000004730	Emr1	0.837925	1
ENSMUSG00000027447	Cst3	0.836036	1
ENSMUSG00000000982	Ccl3	0.830252	1
ENSMUSG00000030560	Ctsc	0.827289	1
ENSMUSG00000059089	Fcgr4	0.826487	1
ENSMUSG00000015340	Cybb	0.822823	1
ENSMUSG00000051439	Cd14	0.822449	1
ENSMUSG00000018920	Cxcl16	0.81724	1
ENSMUSG00000008348	Ubc	0.810275	1
ENSMUSG00000038642	Ctss	0.810192	1
ENSMUSG00000000078	Klf6	0.806641	1
ENSMUSG00000064373	Sepp1	0.80218	1
ENSMUSG00000021250	Fos	0.800564	1
ENSMUSG00000018774	Cd68	0.799545	1
ENSMUSG00000022108	Itm2b	0.797237	1
ENSMUSG00000050578	Mmp13	0.796364	1
ENSMUSG00000021190	Lgmn	0.795086	1
ENSMUSG00000074622	Mafb	0.790289	1
ENSMUSG00000060802	B2m	0.788637	1
ENSMUSG00000024190	Dusp1	0.783209	1
ENSMUSG00000021270	Hsp90aa1	0.778144	1
ENSMUSG00000024397	Aif1	0.771847	1
ENSMUSG00000031613	Hpgd	0.7713	1
ENSMUSG00000023367	Tmem176a	0.76684	1
ENSMUSG00000062593	Lilrb4	0.765798	1
ENSMUSG00000058715	Fcer1g	0.765175	1
ENSMUSG00000079547	H2-DMb1	0.764776	1
ENSMUSG00000032554	Trf	0.758242	1
ENSMUSG00000026864	Hspa5	0.757175	1
ENSMUSG00000026628	Atf3	0.749842	1
ENSMUSG00000040950	Mgl2	0.743985	1
ENSMUSG00000016256	Ctsz	0.741422	1
ENSMUSG00000090877	Hspa1b	0.740319	1
ENSMUSG00000056708	Ier5	0.735935	1
ENSMUSG00000038393	Txnip	0.723098	1
ENSMUSG00000026358	Rgs1	0.723091	1
ENSMUSG00000049130	C5ar1	0.722558	1
ENSMUSG00000026360	Rgs2	0.717025	1
ENSMUSG00000045763	Basp1	0.714934	1

ENSMUSG00000054364	Rhob	0.713016	1
ENSMUSG00000015656	Hspa8	0.700149	1
ENSMUSG00000039910	Cited2	0.69983	1
ENSMUSG00000024401	Tnf	0.697749	1
ENSMUSG00000019505	Ubb	0.697121	1
ENSMUSG00000049723	Mmp12	0.695597	1
ENSMUSG00000020423	Btg2	0.693607	1
ENSMUSG00000035356	Nfkbiz	0.686381	1
ENSMUSG00000021453	Gadd45g	0.685821	1
ENSMUSG00000044786	Zfp36	0.682074	1
ENSMUSG00000038418	Egr1	0.669834	1
ENSMUSG00000073411	H2-D1	0.665534	1
ENSMUSG00000050370	Ch25h	0.665245	1
ENSMUSG00000023944	Hsp90ab1	0.654105	1
ENSMUSG00000005483	Dnajb1	0.652751	1
ENSMUSG00000092274	Neat1	0.637574	1
ENSMUSG00000033450	Tagap	0.63725	1
ENSMUSG00000097423	Gm26522	0.631881	1
ENSMUSG00000002944	Cd36	0.628318	1
ENSMUSG00000034723	Tmx4	0.625356	1
ENSMUSG00000026365	Cfh	0.611981	1
ENSMUSG00000040829	Zmynd15	0.603307	1
ENSMUSG00000034855	Cxcl10	0.590088	1
ENSMUSG00000045932	Ifit2	0.574823	1
ENSMUSG00000004951	Hspb1	0.550521	1
ENSMUSG00000028967	Errfi1	0.550181	1
ENSMUSG00000059412	Fxyd2	0.549849	1
ENSMUSG00000048806	Ifnb1	0.548925	1
ENSMUSG00000028195	Cyr61	0.538276	1
ENSMUSG00000090698	Apold1	0.506947	1
ENSMUSG00000020651	Slc26a4	0.500771	1
ENSMUSG00000078355	Gm13280	0.50028	1
ENSMUSG00000069516	Lyz2	0.862172	2
ENSMUSG00000002985	Apoe	0.847786	2
ENSMUSG00000025351	Cd63	0.796757	2
ENSMUSG00000023992	Trem2	0.796698	2
ENSMUSG00000034708	Grn	0.794098	2
ENSMUSG00000050708	Ftl1	0.793906	2
ENSMUSG00000021939	Ctsb	0.791844	2
ENSMUSG00000024661	Fth1	0.788376	2
ENSMUSG00000031765	Mt1	0.781103	2
ENSMUSG00000015852	Fcrls	0.780458	2
ENSMUSG00000007891	Ctsd	0.779635	2
ENSMUSG00000023913	Pla2g7	0.776263	2
ENSMUSG00000023349	Clec4n	0.775101	2
ENSMUSG00000024672	Ms4a7	0.771353	2
ENSMUSG00000017754	Pltp	0.770141	2
ENSMUSG00000059498	Fcgr3	0.762228	2
ENSMUSG00000058427	Cxcl2	0.761146	2
ENSMUSG00000005054	Cstb	0.761006	2
ENSMUSG00000035385	Ccl2	0.756562	2
ENSMUSG00000026712	Mrc1	0.753552	2
ENSMUSG00000003541	Ier3	0.751098	2
ENSMUSG00000029484	Anxa3	0.742737	2
ENSMUSG00000029373	Pf4	0.737598	2
ENSMUSG00000089929	Bcl2a1b	0.736586	2
ENSMUSG00000031447	Lamp1	0.732929	2
ENSMUSG00000052336	Cx3cr1	0.73014	2
ENSMUSG00000037966	Ninj1	0.722676	2

ENSMUSG00000015568	Lpl	0.722279	2
ENSMUSG00000026981	Il1rn	0.719539	2
ENSMUSG00000035373	Ccl7	0.718005	2
ENSMUSG00000048234	Rnf149	0.717665	2
ENSMUSG00000043953	Ccl2	0.711318	2
ENSMUSG00000021477	Ctsl	0.699838	2
ENSMUSG00000017466	Timp2	0.698887	2
ENSMUSG00000029304	Spp1	0.697833	2
ENSMUSG00000020053	Igf1	0.697457	2
ENSMUSG000000102037	NA	0.696967	2
ENSMUSG00000035352	Ccl12	0.695268	2
ENSMUSG00000028691	Prdx1	0.676631	2
ENSMUSG00000058755	Osm	0.674333	2
ENSMUSG00000021281	Tnfaip2	0.667928	2
ENSMUSG00000005413	Hmox1	0.667556	2
ENSMUSG00000030342	Cd9	0.666045	2
ENSMUSG00000003363	Pld3	0.653092	2
ENSMUSG00000030144	Clec4d	0.648987	2
ENSMUSG00000044080	S100a1	0.642859	2
ENSMUSG00000056054	S100a8	0.641851	2
ENSMUSG00000018102	Hist1h2bc	0.635479	2
ENSMUSG00000017493	Igfbp4	0.634126	2
ENSMUSG00000009185	Ccl8	0.634085	2
ENSMUSG00000028063	Lmna	0.633916	2
ENSMUSG00000029380	Cxcl1	0.633365	2
ENSMUSG00000020048	Hsp90b1	0.631589	2
ENSMUSG00000001348	Acp5	0.631479	2
ENSMUSG00000002233	Rhoc	0.630734	2
ENSMUSG00000056071	S100a9	0.626384	2
ENSMUSG00000003545	Fosb	0.621913	2
ENSMUSG00000027848	Olfml3	0.61684	2
ENSMUSG00000025969	Nrp2	0.616	2
ENSMUSG00000020205	Phlda1	0.606671	2
ENSMUSG00000027399	Il1a	0.606374	2
ENSMUSG00000032786	Alas1	0.605178	2
ENSMUSG00000023951	Vegfa	0.604732	2
ENSMUSG00000034993	Vat1	0.602518	2
ENSMUSG00000019970	Sgk1	0.602407	2
ENSMUSG00000028832	Stmn1	0.598002	2
ENSMUSG00000021508	Cxcl14	0.595361	2
ENSMUSG00000032324	Tspan3	0.592319	2
ENSMUSG000000096210	H1f0	0.589089	2
ENSMUSG00000017009	Sdc4	0.585866	2
ENSMUSG00000027962	Vcam1	0.584199	2
ENSMUSG00000038508	Gdf15	0.58295	2
ENSMUSG00000003617	Cp	0.581836	2
ENSMUSG00000030218	Mgp	0.577595	2
ENSMUSG00000018339	Gpx3	0.576184	2
ENSMUSG00000032802	Srxn1	0.57374	2
ENSMUSG00000011179	Odc1	0.573269	2
ENSMUSG00000032366	Tpm1	0.572143	2
ENSMUSG00000024843	Chka	0.571885	2
ENSMUSG00000022415	Syng1	0.569272	2
ENSMUSG00000020377	Ltc4s	0.567166	2
ENSMUSG00000029816	Gpnmb	0.560818	2
ENSMUSG00000061100	Retnla	0.554609	2
ENSMUSG00000022303	Dcstamp	0.554054	2
ENSMUSG00000024486	Hbegf	0.550748	2
ENSMUSG00000037411	Serpine1	0.548537	2

**Supplemental Table II: Naive Foxp3⁺ vs Foxp3⁻ LogFC vs p-value of DE genes
extracted from single cell RNAseq data**

gene_id	pval	log2fc	adj_pval	DE_flag	
Foxp3		0	8.718335	0	TRUE
Ikzf2	2.94E-258	5.942104	1.62E-254	TRUE	
Capg	7.00E-79	4.681998	1.10E-75	TRUE	
Tnfrsf4	4.59E-151	4.671531	1.68E-147	TRUE	
Ctla4	8.26E-138	4.626031	2.27E-134	TRUE	
Tnfrsf18	4.33E-70	4.164587	4.33E-67	TRUE	
Folr4	2.91E-72	4.142042	3.56E-69	TRUE	
Glrx	2.21E-46	3.4026	1.28E-43	TRUE	
Ifi2712a	6.17E-33	3.319557	2.05E-30	TRUE	
S100a6	7.71E-25	3.147447	1.63E-22	TRUE	
Serinc3	4.41E-30	3.080196	1.28E-27	TRUE	
S100a4	4.40E-25	3.070788	9.48E-23	TRUE	
Pim1	2.67E-23	2.946272	5.14E-21	TRUE	
Vim	7.23E-24	2.86268	1.42E-21	TRUE	
Lgals1	1.44E-21	2.797497	2.33E-19	TRUE	
Samsn1	1.06E-38	2.77241	5.08E-36	TRUE	
Ifngr1	2.02E-20	2.707392	2.95E-18	TRUE	
Arhgap31	2.09E-22	2.651391	3.70E-20	TRUE	
Rhoh	6.39E-20	2.62031	9.12E-18	TRUE	
S100a10	4.05E-31	2.619468	1.24E-28	TRUE	
Nfkbia	9.11E-21	2.603056	1.43E-18	TRUE	
Rgs2	1.80E-18	2.589354	2.37E-16	TRUE	
Icos	3.71E-17	2.56602	4.25E-15	TRUE	
S100a11	4.15E-18	2.53602	5.30E-16	TRUE	
Maf	1.07E-20	2.518282	1.66E-18	TRUE	
Cd2	5.98E-22	2.505785	9.95E-20	TRUE	
Cd5	7.70E-17	2.498967	8.30E-15	TRUE	
Traf1	9.72E-26	2.485186	2.22E-23	TRUE	
Ptprcap	3.72E-23	2.441707	7.05E-21	TRUE	
Samhd1	2.05E-17	2.402577	2.43E-15	TRUE	
Itgb7	3.57E-14	2.399637	2.71E-12	TRUE	
Zfp36l1	8.53E-15	2.392838	7.16E-13	TRUE	
Pglyrp1	2.74E-40	2.362364	1.37E-37	TRUE	
AW112010	8.98E-16	2.342578	8.51E-14	TRUE	
Ly6e	3.81E-27	2.342533	9.09E-25	TRUE	
Cmtm7	1.71E-20	2.309911	2.54E-18	TRUE	
H2afz	2.24E-13	2.280494	1.50E-11	TRUE	
Eva1b	4.63E-35	2.274948	1.70E-32	TRUE	
Cyb5	9.43E-17	2.158369	1.01E-14	TRUE	
Ass1	2.08E-14	2.145503	1.67E-12	TRUE	
Hif1a	3.09E-20	2.098405	4.47E-18	TRUE	
Sdf4	2.14E-12	2.0819	1.22E-10	TRUE	
Prr13	1.98E-11	2.065531	9.37E-10	TRUE	
Lbh	1.22E-10	2.06117	4.99E-09	TRUE	
Sla	5.25E-14	2.046725	3.84E-12	TRUE	
Fkbp1a	1.45E-09	2.038834	4.70E-08	TRUE	
Rnaset2b	1.64E-10	2.018185	6.38E-09	TRUE	
Gata3	3.04E-15	1.999395	2.65E-13	TRUE	
Smpd3a	1.61E-11	1.995247	7.88E-10	TRUE	
Rgs1	1.11E-06	1.987731	1.61E-05	TRUE	
Lrp10	8.03E-14	1.97198	5.76E-12	TRUE	
Gm2a	7.35E-20	1.97125	1.04E-17	TRUE	
Smco4	3.35E-19	1.959878	4.48E-17	TRUE	
Cd37	4.92E-08	1.958783	1.07E-06	TRUE	
Cd27	6.13E-10	1.95678	2.12E-08	TRUE	
Nr4a1	9.69E-11	1.942017	4.05E-09	TRUE	

Rnaset2a	1.03E-09	1.94092	3.42E-08	TRUE
Pycard	4.29E-12	1.930429	2.35E-10	TRUE
Ptp4a2	1.71E-08	1.92175	4.12E-07	TRUE
Dusp1	3.76E-07	1.914633	6.20E-06	TRUE
Cd48	4.62E-10	1.912171	1.68E-08	TRUE
Ubl3	2.03E-12	1.879644	1.17E-10	TRUE
Crem	3.83E-25	1.878723	8.41E-23	TRUE
Gimap7	1.54E-10	1.875833	6.06E-09	TRUE
Gnb2	3.22E-09	1.875063	9.52E-08	TRUE
Il2rb	3.46E-12	1.859803	1.92E-10	TRUE
Vasp	2.02E-08	1.858771	4.83E-07	TRUE
Odc1	2.30E-14	1.851216	1.83E-12	TRUE
Nrp1	5.55E-38	1.849578	2.54E-35	TRUE
Itn2c	1.31E-11	1.846776	6.53E-10	TRUE
Gpx4	1.02E-07	1.845625	2.03E-06	TRUE
Cebpb	2.09E-13	1.84099	1.41E-11	TRUE
Arl5a	1.34E-36	1.823618	5.90E-34	TRUE
Clic1	2.43E-06	1.820593	3.12E-05	TRUE
Calr	5.45E-08	1.811735	1.17E-06	TRUE
Slc9a3r1	2.60E-09	1.797193	7.90E-08	TRUE
Tnfrsf1b	1.60E-22	1.788387	2.98E-20	TRUE
Anp32b	6.40E-08	1.78672	1.35E-06	TRUE
Ypel3	9.40E-08	1.783776	1.88E-06	TRUE
Wnk1	9.11E-10	1.774642	3.07E-08	TRUE
Srgn	2.05E-16	1.771589	2.10E-14	TRUE
Tsc22d4	9.90E-08	1.7634	1.97E-06	TRUE
Stat1	2.49E-10	1.760568	9.47E-09	TRUE
Dusp5	2.75E-09	1.755923	8.26E-08	TRUE
Emp3	8.72E-09	1.743321	2.29E-07	TRUE
Mettl23	8.04E-10	1.743273	2.73E-08	TRUE
Sec61b	1.17E-06	1.742511	1.69E-05	TRUE
Zfp36	1.26E-09	1.735299	4.11E-08	TRUE
Gm26924	1.29E-06	1.708675	1.83E-05	TRUE
Leprotl1	2.27E-05	1.698688	0.000202	TRUE
Lcp1	1.28E-06	1.695838	1.82E-05	TRUE
Itpkb	6.26E-07	1.687471	9.72E-06	TRUE
Vamp8	4.23E-08	1.685573	9.40E-07	TRUE
Psen2	3.96E-22	1.685139	6.80E-20	TRUE
Anxa6	6.51E-06	1.660253	7.08E-05	TRUE
Hopx	6.18E-11	1.658362	2.65E-09	TRUE
Ahnak	5.58E-09	1.653661	1.54E-07	TRUE
Chmp4b	4.83E-07	1.652614	7.75E-06	TRUE
H13	4.34E-10	1.644434	1.59E-08	TRUE
Ube2d2a	1.27E-05	1.634461	0.000123	TRUE
Nrip1	3.23E-16	1.619078	3.25E-14	TRUE
Rgs10	2.86E-07	1.618247	5.01E-06	TRUE
Scand1	3.20E-07	1.615601	5.50E-06	TRUE
Coro1b	2.96E-10	1.615353	1.11E-08	TRUE
Atp2b1	8.14E-15	1.611083	6.87E-13	TRUE
Polr1d	1.39E-05	1.609765	0.000133	TRUE
Cyba	5.16E-06	1.603423	5.84E-05	TRUE
Selk	7.02E-05	1.602455	0.00052	TRUE
Pkp3	1.57E-09	1.601984	5.04E-08	TRUE
H2-T23	0.000103	1.598607	0.000704	TRUE
Tgif1	5.63E-17	1.591256	6.24E-15	TRUE
Coro2a	1.74E-35	1.58701	6.84E-33	TRUE
Tspan13	6.19E-07	1.580828	9.63E-06	TRUE
Psenen	5.26E-05	1.576841	0.000406	TRUE
Smap1	3.44E-11	1.576359	1.53E-09	TRUE

Cd74	1.23E-51	1.574884	9.00E-49	TRUE
Tpm4	9.25E-11	1.567347	3.89E-09	TRUE
Hint1	6.94E-06	1.56477	7.46E-05	TRUE
Rab10	4.18E-09	1.560859	1.18E-07	TRUE
Ccdc12	6.41E-06	1.560505	6.99E-05	TRUE
Ctla2a	7.60E-11	1.551867	3.22E-09	TRUE
Foxo1	5.25E-11	1.551828	2.27E-09	TRUE
Mrps16	1.78E-10	1.551459	6.86E-09	TRUE
Edf1	3.79E-05	1.549737	0.00031	TRUE
Uqcr11	6.17E-08	1.542848	1.31E-06	TRUE
H2-Q6	1.74E-07	1.5425	3.30E-06	TRUE
Ppib	9.79E-05	1.530571	0.000679	TRUE
Nfkb1	3.94E-09	1.528065	1.12E-07	TRUE
Ctsb	3.19E-07	1.526902	5.50E-06	TRUE
Zfand6	2.29E-06	1.523783	2.97E-05	TRUE
0610009D07Rik	2.74E-06	1.523376	3.45E-05	TRUE
Areg	1.24E-71	1.519248	1.36E-68	TRUE
AC149090.1	3.81E-09	1.514416	1.09E-07	TRUE
Son	0.000658	1.514347	0.003191	TRUE
Gpx1	2.33E-08	1.512874	5.48E-07	TRUE
Ywhae	3.33E-07	1.509856	5.64E-06	TRUE
S100a13	3.13E-05	1.507992	0.000265	TRUE
Tspan32	7.66E-07	1.505005	1.16E-05	TRUE
Psmid8	5.55E-08	1.498267	1.19E-06	TRUE
Mxd4	2.59E-09	1.492574	7.89E-08	TRUE
Klrg1	9.78E-45	1.489629	5.12E-42	TRUE
Ppp1r12a	4.86E-06	1.48951	5.56E-05	TRUE
Srrm2	0.0001	1.489453	0.000691	TRUE
Dctn3	1.23E-09	1.488723	4.05E-08	TRUE
Abracl	5.56E-05	1.484237	0.000427	TRUE
Arf5	9.82E-05	1.483921	0.00068	TRUE
Mrpl54	3.01E-11	1.480776	1.36E-09	TRUE
Dek	7.99E-07	1.478051	1.21E-05	TRUE
2310036O22Rik	6.42E-06	1.475035	7.00E-05	TRUE
Cd82	0.001104	1.472236	0.004874	TRUE
Gpi1	9.93E-05	1.47054	0.000685	TRUE
Spcs2	0.000294	1.470409	0.001669	TRUE
Hn1	9.33E-05	1.470192	0.000657	TRUE
Fgl2	1.62E-09	1.463982	5.16E-08	TRUE
Ube2b	0.000128	1.46361	0.000845	TRUE
H2afv	3.98E-06	1.460643	4.72E-05	TRUE
Rps27l	1.32E-10	1.45823	5.30E-09	TRUE
Gng5	0.001803	1.45818	0.007282	TRUE
Lamtor5	5.56E-10	1.455831	1.97E-08	TRUE
Nt5c	7.46E-08	1.455431	1.54E-06	TRUE
Cers4	5.32E-12	1.450161	2.80E-10	TRUE
Mark2	1.69E-08	1.443526	4.09E-07	TRUE
Arf6	0.00031	1.443341	0.001743	TRUE
NA	0.000163	1.441525	0.001033	TRUE
Cst3	2.58E-10	1.439852	9.70E-09	TRUE
Tgfb1	2.45E-07	1.439098	4.41E-06	TRUE
Iqgap1	4.15E-05	1.437823	0.000335	TRUE
Wbp5	4.09E-14	1.437622	3.08E-12	TRUE
Tox	1.09E-12	1.433107	6.62E-11	TRUE
Tnfrsf9	1.66E-91	1.432979	3.66E-88	TRUE
Dad1	0.006212	1.432537	0.019837	TRUE
Sri	4.65E-05	1.430845	0.000368	TRUE
M6pr	2.77E-07	1.43019	4.89E-06	TRUE
Laptm5	7.66E-08	1.426004	1.57E-06	TRUE

Cd81	3.78E-33	1.422697	1.34E-30	TRUE
Hmgb2	4.07E-05	1.421889	0.000329	TRUE
1110008F13Rik	3.61E-11	1.420793	1.59E-09	TRUE
Atp6v1f	0.000621	1.420765	0.003042	TRUE
Acot7	9.05E-15	1.41027	7.53E-13	TRUE
Sfr1	4.10E-08	1.408683	9.20E-07	TRUE
Ndufa11	1.61E-08	1.408152	3.94E-07	TRUE
Txndc17	2.01E-10	1.405998	7.65E-09	TRUE
Sh2d2a	1.87E-05	1.405178	0.000173	TRUE
Csrnp1	2.50E-08	1.400799	5.87E-07	TRUE
Prelid1	2.83E-06	1.397762	3.54E-05	TRUE
Mndal	8.09E-06	1.394712	8.48E-05	TRUE
Tnfaip8	7.27E-07	1.393559	1.11E-05	TRUE
Pomp	1.25E-05	1.393289	0.000122	TRUE
Wdr1	5.20E-05	1.393267	0.000403	TRUE
Crip1	8.41E-09	1.39323	2.23E-07	TRUE
Cnp	5.03E-06	1.389117	5.73E-05	TRUE
Nt5e	7.53E-36	1.389089	3.06E-33	TRUE
Fis1	0.000149	1.385791	0.000958	TRUE
Picalm	1.38E-14	1.385499	1.13E-12	TRUE
Rap1a	3.97E-05	1.381579	0.000322	TRUE
Sh3bgrl	4.80E-17	1.380013	5.38E-15	TRUE
Rora	4.85E-09	1.379462	1.36E-07	TRUE
Myo1g	5.16E-13	1.376017	3.35E-11	TRUE
P2ry10	4.91E-10	1.374542	1.77E-08	TRUE
Gabarap	0.002372	1.373738	0.009101	TRUE
Shfm1	5.76E-05	1.372988	0.000439	TRUE
Rac1	0.002851	1.370991	0.010627	TRUE
Tbc1d10c	0.00014	1.369453	0.000915	TRUE
Ndufa13	0.000236	1.367026	0.001396	TRUE
Lcp2	2.22E-06	1.361405	2.88E-05	TRUE
Nr3c1	8.45E-09	1.361034	2.24E-07	TRUE
Glipr2	5.58E-12	1.361005	2.91E-10	TRUE
Gm2382	1.06E-11	1.360555	5.32E-10	TRUE
Top1	1.04E-05	1.358833	0.000104	TRUE
Tmem258	0.000322	1.358785	0.001794	TRUE
Akap13	0.000351	1.358568	0.00192	TRUE
Capza1	6.87E-06	1.358218	7.40E-05	TRUE
Cox5b	0.002766	1.357152	0.010359	TRUE
Dynlrb1	0.001127	1.355727	0.004947	TRUE
Chmp2a	1.17E-05	1.35299	0.000115	TRUE
Chchd2	7.08E-05	1.352528	0.000523	TRUE
Glipr1	1.73E-13	1.351368	1.19E-11	TRUE
Cldn25	2.29E-16	1.346574	2.33E-14	TRUE
Tmbim6	0.001993	1.345334	0.007906	TRUE
Rbm38	6.92E-11	1.342762	2.96E-09	TRUE
Cdc42se2	4.06E-05	1.342496	0.000328	TRUE
Clk1	0.002689	1.340405	0.0101	TRUE
Dock2	4.40E-05	1.338998	0.000352	TRUE
Atp5d	0.000266	1.334663	0.00154	TRUE
Cdipt	1.67E-08	1.333698	4.07E-07	TRUE
2700060E02Rik	0.000264	1.332213	0.001532	TRUE
Mdh2	0.001155	1.329234	0.005062	TRUE
Sod2	3.27E-10	1.327004	1.22E-08	TRUE
Timp2	1.63E-22	1.322857	2.98E-20	TRUE
Slc25a4	3.31E-07	1.322445	5.63E-06	TRUE
Gadd45b	5.60E-10	1.321951	1.98E-08	TRUE
Agfg1	2.30E-13	1.321628	1.51E-11	TRUE
Prkch	6.65E-08	1.32151	1.39E-06	TRUE

Pasma7	0.000599	1.321417	0.002962	TRUE
Syngnr2	1.17E-12	1.317592	7.03E-11	TRUE
Tkt	1.58E-08	1.312705	3.88E-07	TRUE
Trib1	2.07E-28	1.311878	5.16E-26	TRUE
Sat1	4.56E-05	1.309589	0.000362	TRUE
Atox1	1.70E-05	1.307033	0.000158	TRUE
Esyt1	1.96E-07	1.305712	3.60E-06	TRUE
Rhof	2.98E-09	1.302684	8.83E-08	TRUE
Ndufb11	0.000407	1.302422	0.002158	TRUE
Minos1	0.00072	1.300889	0.00344	TRUE
Reep5	2.31E-06	1.298352	2.99E-05	TRUE
Cdk2ap2	0.001294	1.29821	0.005574	TRUE
Gna13	1.57E-06	1.296593	2.16E-05	TRUE
Fyb	0.004714	1.295736	0.01592	TRUE
Ly6a	0.000102	1.295168	0.000702	TRUE
Zdhhc20	4.17E-09	1.295076	1.18E-07	TRUE
Snx20	1.04E-10	1.294655	4.35E-09	TRUE
Psmb8	7.41E-05	1.285576	0.000543	TRUE
4632428N05Rik	2.01E-05	1.285055	0.000183	TRUE
Nap111	1.93E-06	1.284438	2.57E-05	TRUE
Dok2	1.90E-06	1.282847	2.53E-05	TRUE
AU020206	1.00E-12	1.280295	6.16E-11	TRUE
Akna	2.60E-08	1.27964	6.05E-07	TRUE
Tommm22	0.000918	1.277458	0.004196	TRUE
Kxd1	1.71E-09	1.277419	5.45E-08	TRUE
Cd6	0.000466	1.277374	0.002415	TRUE
Gnai2	4.56E-06	1.272331	5.27E-05	TRUE
Rheb	6.45E-07	1.271663	9.95E-06	TRUE
Rilpl2	4.07E-15	1.270351	3.52E-13	TRUE
Bax	6.54E-05	1.26839	0.00049	TRUE
Ppp1r16b	1.37E-06	1.267472	1.92E-05	TRUE
Snx3	0.00042	1.266256	0.002211	TRUE
Psme1	0.01255	1.265869	0.034858	TRUE
Pdcd6	1.61E-07	1.264724	3.07E-06	TRUE
Rinl	0.001364	1.261457	0.005803	TRUE
Ndufs6	8.33E-06	1.259299	8.68E-05	TRUE
Atf7ip	7.64E-10	1.258879	2.60E-08	TRUE
Zdhhc18	9.18E-10	1.258176	3.07E-08	TRUE
Pdia3	0.002296	1.257931	0.008873	TRUE
Hcls1	9.83E-05	1.254166	0.00068	TRUE
Uqcrq	0.000901	1.253913	0.004145	TRUE
Rhog	3.74E-07	1.253725	6.18E-06	TRUE
Slc25a3	0.01126	1.253635	0.031847	TRUE
Faim	1.37E-13	1.252291	9.60E-12	TRUE
Sec62	0.000266	1.251994	0.00154	TRUE
Clint1	2.69E-06	1.249175	3.39E-05	TRUE
Selplg	0.001627	1.247825	0.006706	TRUE
Lypla2	2.00E-08	1.245754	4.78E-07	TRUE
Spcs1	2.67E-05	1.24519	0.000232	TRUE
Bsg	6.87E-07	1.24505	1.06E-05	TRUE
Lsp1	4.68E-05	1.243306	0.00037	TRUE
Gnas	0.000219	1.242927	0.001308	TRUE
Cyth4	4.64E-09	1.242854	1.31E-07	TRUE
Ndfip1	1.40E-06	1.242794	1.95E-05	TRUE
Trp53inp1	3.98E-13	1.242227	2.60E-11	TRUE
Mthfs	8.81E-13	1.240348	5.50E-11	TRUE
Stk24	3.72E-05	1.240032	0.000304	TRUE
Ube2m	9.59E-10	1.239533	3.19E-08	TRUE
Klf13	0.004893	1.238826	0.01638	TRUE

Tmem167	1.23E-05	1.237528	0.00012	TRUE
Ube2r2	9.57E-10	1.235409	3.19E-08	TRUE
Maf1	5.54E-06	1.23434	6.18E-05	TRUE
Sod1	9.51E-11	1.234156	3.99E-09	TRUE
Mtpn	2.43E-11	1.233659	1.13E-09	TRUE
Arl6ip1	0.001528	1.233589	0.006367	TRUE
Dbnl	1.20E-05	1.231123	0.000118	TRUE
H2-Q7	4.52E-05	1.230338	0.00036	TRUE
Gna15	1.20E-12	1.23002	7.12E-11	TRUE
Lamtor4	3.93E-08	1.22786	8.85E-07	TRUE
Rgs16	2.44E-30	1.227185	7.24E-28	TRUE
Cab39	1.39E-07	1.226543	2.69E-06	TRUE
1810037117Rik	0.000826	1.22629	0.003841	TRUE
Nr4a3	4.26E-17	1.225986	4.83E-15	TRUE
Ppp4c	0.001345	1.225171	0.005735	TRUE
Cytip	0.005499	1.224489	0.01802	TRUE
Mbnl1	0.004679	1.224422	0.015836	TRUE
Slc3a2	0.010091	1.222693	0.029148	TRUE
Tapbp1	4.80E-10	1.222258	1.74E-08	TRUE
Ctss	4.52E-06	1.221827	5.24E-05	TRUE
Gimap5	3.65E-05	1.219343	0.0003	TRUE
Hspa1a	3.12E-05	1.219207	0.000264	TRUE
Fermt3	3.48E-07	1.218912	5.83E-06	TRUE
Ywhaz	6.45E-05	1.217919	0.000484	TRUE
Tmem123	9.99E-07	1.217579	1.46E-05	TRUE
Adrbk1	1.10E-06	1.217538	1.61E-05	TRUE
Atpif1	4.16E-08	1.217494	9.33E-07	TRUE
Rab8b	1.06E-08	1.217173	2.71E-07	TRUE
Arpc4	0.001546	1.21619	0.006421	TRUE
Atp5c1	0.012351	1.216084	0.034409	TRUE
Prkca	0.000105	1.213433	0.000714	TRUE
Ii21r	3.02E-06	1.213383	3.73E-05	TRUE
Gimap3	0.003578	1.212245	0.01273	TRUE
Unc119	2.96E-14	1.211254	2.29E-12	TRUE
Pdpf	0.000102	1.210007	0.000702	TRUE
Ndufb7	0.000348	1.209708	0.001909	TRUE
Tpr	0.000236	1.208858	0.001396	TRUE
Ndufa7	0.00427	1.208758	0.01469	TRUE
Sec11c	4.15E-05	1.20811	0.000335	TRUE
Fmnl1	1.44E-05	1.205103	0.000138	TRUE
Cox7b	0.009259	1.202971	0.027209	TRUE
Ythdc1	1.74E-06	1.202844	2.36E-05	TRUE
Ccr2	7.44E-10	1.202736	2.54E-08	TRUE
Lman2	8.52E-06	1.201721	8.86E-05	TRUE
Dusp4	7.37E-50	1.199921	4.76E-47	TRUE
Celf2	0.002122	1.197906	0.008311	TRUE
Dazap2	0.001889	1.193827	0.00754	TRUE
Psmb1	0.004571	1.192279	0.015533	TRUE
Mier1	2.01E-07	1.191124	3.69E-06	TRUE
Sh3glb1	0.001487	1.19084	0.006226	TRUE
Sh2d1a	5.35E-06	1.190235	6.02E-05	TRUE
Tln1	4.52E-05	1.189708	0.00036	TRUE
Esd	1.99E-06	1.189396	2.63E-05	TRUE
Mcl1	0.00066	1.189215	0.003199	TRUE
Mdh1	9.57E-05	1.187957	0.000668	TRUE
Pla2g16	0.000137	1.184857	0.000897	TRUE
Batf	1.30E-10	1.183998	5.26E-09	TRUE
Calm2	0.01916	1.183589	0.049222	TRUE
Mbd2	2.32E-05	1.181992	0.000206	TRUE

Bst2	1.18E-07	1.181981	2.31E-06	TRUE
Ak2	1.23E-09	1.181771	4.04E-08	TRUE
Tma7	0.000136	1.181054	0.000891	TRUE
Ppp1r18	0.001687	1.175735	0.006894	TRUE
Psma3	0.005116	1.175255	0.017004	TRUE
Ngfrap1	1.92E-07	1.172726	3.55E-06	TRUE
Snrpb	0.013053	1.172683	0.035922	TRUE
Atp6v0e	0.01084	1.172628	0.030865	TRUE
Ccni2	6.65E-05	1.17255	0.000497	TRUE
Mtdh	4.00E-06	1.170901	4.72E-05	TRUE
Grap	0.000334	1.170762	0.001845	TRUE
Brk1	0.000695	1.169354	0.003333	TRUE
1110004F10Rik	1.54E-05	1.168922	0.000145	TRUE
Flna	4.27E-07	1.168812	6.96E-06	TRUE
Psma2	0.006317	1.168016	0.020084	TRUE
Tap1	7.27E-06	1.16706	7.75E-05	TRUE
Rab11a	2.04E-07	1.166194	3.74E-06	TRUE
Capn1	4.17E-11	1.165575	1.81E-09	TRUE
ldh3b	3.49E-06	1.164488	4.23E-05	TRUE
Mif4gd	1.62E-08	1.160723	3.96E-07	TRUE
Hprt	3.28E-05	1.159479	0.000276	TRUE
Pdap1	1.19E-07	1.158149	2.33E-06	TRUE
Ucp2	0.010929	1.156907	0.031054	TRUE
Snx2	2.53E-10	1.155772	9.60E-09	TRUE
Zc3hav1	0.000175	1.154243	0.001092	TRUE
Rps6ka1	5.99E-09	1.154172	1.63E-07	TRUE
Bmyc	1.96E-15	1.152788	1.80E-13	TRUE
Map1lc3b	0.017704	1.151298	0.046157	TRUE
Rab11b	0.000124	1.150973	0.000823	TRUE
Tmem64	4.88E-08	1.149858	1.07E-06	TRUE
Kif5b	0.00016	1.147406	0.001017	TRUE
Plp2	2.03E-17	1.146204	2.42E-15	TRUE
Snrpd2	0.000784	1.145874	0.003682	TRUE
Hnrnpm	0.000894	1.145108	0.004119	TRUE
Taf10	0.000589	1.143927	0.002919	TRUE
Tm9sf3	2.78E-05	1.143475	0.000241	TRUE
Adipor1	7.59E-05	1.142935	0.000553	TRUE
Eif4h	6.61E-06	1.14246	7.17E-05	TRUE
Tmem160	1.21E-05	1.142249	0.000119	TRUE
Bcl2a1b	0.000314	1.139497	0.001755	TRUE
Il2ra	1.43E-60	1.138402	1.21E-57	TRUE
Ubal2	0.000111	1.137984	0.000748	TRUE
Ubl5	0.009716	1.137533	0.028267	TRUE
Ikzf3	4.00E-08	1.137092	9.00E-07	TRUE
Rrbp1	1.41E-10	1.136758	5.57E-09	TRUE
H1f0	5.94E-10	1.135697	2.07E-08	TRUE
Psmb2	0.000102	1.134568	0.000702	TRUE
Vcp	7.66E-06	1.131892	8.11E-05	TRUE
Peli1	0.004693	1.131811	0.015876	TRUE
Ppp1ca	0.000521	1.131704	0.002634	TRUE
Pmaip1	1.60E-26	1.131425	3.75E-24	TRUE
Tank	1.09E-13	1.13017	7.70E-12	TRUE
Banf1	1.14E-05	1.129883	0.000113	TRUE
Atp5j2	0.006036	1.128749	0.019421	TRUE
Gapdh	4.94E-05	1.128524	0.000387	TRUE
Pkm	0.00074	1.127612	0.003515	TRUE
Hnrnpu	0.010447	1.12436	0.029939	TRUE
Dnaja1	0.00813	1.123558	0.024584	TRUE
Ssr4	0.000147	1.123076	0.000953	TRUE

Rabgap1l	7.04E-08	1.120587	1.46E-06	TRUE
Matk	2.66E-36	1.120291	1.12E-33	TRUE
Igtp	8.22E-08	1.120149	1.67E-06	TRUE
BC021614	5.99E-10	1.117718	2.08E-08	TRUE
Sec61g	0.014674	1.117299	0.039441	TRUE
Sys1	8.44E-05	1.115811	0.000605	TRUE
Krtcap2	0.01329	1.114612	0.036425	TRUE
Maz	7.38E-07	1.114405	1.12E-05	TRUE
Ran	0.017677	1.113266	0.046124	TRUE
Papola	0.000161	1.111448	0.001023	TRUE
Denr	3.08E-07	1.109675	5.35E-06	TRUE
Tnip1	7.83E-12	1.109125	4.02E-10	TRUE
Ndufb8	6.35E-05	1.108483	0.000478	TRUE
Serinc1	6.38E-06	1.108144	6.96E-05	TRUE
Ppil1	1.18E-14	1.106808	9.72E-13	TRUE
Gm26917	0.017697	1.105804	0.046157	TRUE
Kcnn4	6.82E-06	1.105484	7.37E-05	TRUE
D8Erttd738e	0.009768	1.105311	0.028372	TRUE
Ap2s1	2.32E-05	1.103956	0.000206	TRUE
Psm4	1.59E-05	1.103931	0.000149	TRUE
Ssbp3	1.14E-11	1.103451	5.70E-10	TRUE
BC056474	1.35E-06	1.103104	1.90E-05	TRUE
Gltsr2	0.004864	1.102497	0.016308	TRUE
Tpgs1	2.38E-12	1.102184	1.35E-10	TRUE
Hilpda	8.36E-13	1.10215	5.25E-11	TRUE
Ifi203	0.002505	1.101608	0.009511	TRUE
Arl5c	7.68E-13	1.100954	4.85E-11	TRUE
Thrap3	3.30E-06	1.098163	4.03E-05	TRUE
Med28	0.005571	1.097417	0.018231	TRUE
Cxcr3	0.000473	1.096493	0.002437	TRUE
BC037034	2.28E-13	1.095697	1.51E-11	TRUE
Dynll1	0.009761	1.094692	0.028358	TRUE
Mrps24	0.000327	1.093024	0.001814	TRUE
Acin1	4.38E-06	1.091715	5.08E-05	TRUE
Gbp7	8.99E-09	1.091205	2.35E-07	TRUE
Serpina3g	3.95E-11	1.090562	1.72E-09	TRUE
Ergic3	4.72E-08	1.088986	1.04E-06	TRUE
Rnh1	2.46E-09	1.088493	7.54E-08	TRUE
Capza2	0.000567	1.088175	0.002819	TRUE
Uqcrc1	0.000147	1.087357	0.000953	TRUE
S1pr4	2.20E-05	1.087172	0.000197	TRUE
Metap2	6.62E-08	1.087136	1.39E-06	TRUE
Tnfaip3	0.006555	1.086751	0.020669	TRUE
Sema4d	3.00E-07	1.086615	5.23E-06	TRUE
Fam46a	2.06E-13	1.086033	1.41E-11	TRUE
Eif1ax	1.70E-07	1.085867	3.22E-06	TRUE
Txn1	0.011234	1.085026	0.031792	TRUE
Ghitm	0.000376	1.083333	0.002018	TRUE
Rab14	0.000215	1.081741	0.001296	TRUE
Ntan1	3.74E-06	1.081394	4.49E-05	TRUE
Psm9	0.00507	1.081225	0.01687	TRUE
Cnppd1	6.89E-08	1.080397	1.44E-06	TRUE
Ddit4	1.78E-15	1.079796	1.65E-13	TRUE
Plekhj1	0.000651	1.078627	0.003163	TRUE
Prdx2	0.00011	1.077873	0.000739	TRUE
Inpp5d	1.14E-07	1.075037	2.25E-06	TRUE
Ebp	6.87E-10	1.075035	2.35E-08	TRUE
Git2	9.04E-06	1.073143	9.32E-05	TRUE
Cnn2	0.015562	1.072876	0.041431	TRUE

Prdx5	0.001294	1.072405	0.005574	TRUE
2010111I01Rik	2.11E-12	1.072014	1.21E-10	TRUE
Gnb1	0.008931	1.071285	0.026466	TRUE
Cish	2.89E-11	1.071278	1.32E-09	TRUE
Ssu72	0.000218	1.070346	0.001308	TRUE
2310001H17Rik	5.91E-09	1.069402	1.62E-07	TRUE
Rbms1	6.47E-05	1.068905	0.000486	TRUE
Eif3d	1.92E-05	1.068852	0.000176	TRUE
Huwe1	3.61E-10	1.067624	1.34E-08	TRUE
St13	0.002677	1.067601	0.01006	TRUE
Igbp1	2.79E-07	1.067316	4.90E-06	TRUE
Sdhd	4.93E-08	1.065321	1.07E-06	TRUE
Cbl	1.88E-07	1.065032	3.49E-06	TRUE
Aup1	2.81E-06	1.065031	3.53E-05	TRUE
Ubtf	1.87E-06	1.063879	2.51E-05	TRUE
Nr4a2	6.36E-09	1.062755	1.72E-07	TRUE
Fxyd5	0.000352	1.061396	0.001925	TRUE
Sep-09	0.002159	1.061132	0.008436	TRUE
Atrx	1.47E-06	1.060455	2.04E-05	TRUE
Cox6c	0.003805	1.060059	0.013353	TRUE
Cisd2	9.38E-06	1.059617	9.58E-05	TRUE
Grb2	0.000787	1.059043	0.003689	TRUE
Anxa11	7.95E-08	1.058766	1.62E-06	TRUE
Pacs1	4.77E-14	1.056734	3.54E-12	TRUE
Cox20	7.26E-06	1.056346	7.75E-05	TRUE
Sipa1	0.000445	1.054287	0.002323	TRUE
Cdkn1b	0.000102	1.054023	0.000701	TRUE
H2-T22	0.01014	1.0536	0.029251	TRUE
Tgfb1	1.17E-20	1.05285	1.76E-18	TRUE
Ifi35	4.92E-08	1.052712	1.07E-06	TRUE
Tecr	0.005566	1.051712	0.018218	TRUE
Mrps21	0.000443	1.051673	0.002318	TRUE
Arhgap9	0.000436	1.051455	0.002288	TRUE
Rnf114	3.11E-05	1.051211	0.000264	TRUE
Serp1	0.000569	1.050965	0.002826	TRUE
Rsrc2	0.014881	1.050948	0.039918	TRUE
Sema4b	2.63E-25	1.050333	5.89E-23	TRUE
Camk2d	8.35E-07	1.049995	1.25E-05	TRUE
Ppp2ca	0.006973	1.049916	0.021681	TRUE
Rfk	7.15E-13	1.049803	4.54E-11	TRUE
Cd164	3.45E-05	1.049725	0.000288	TRUE
Csnk1a1	0.003188	1.048647	0.011606	TRUE
Spop	3.20E-05	1.047784	0.000271	TRUE
Fundc2	1.35E-05	1.045258	0.00013	TRUE
Uqcrc2	0.000413	1.04508	0.00218	TRUE
Eif3a	5.90E-05	1.044272	0.000448	TRUE
Cenpa	2.65E-11	1.042838	1.22E-09	TRUE
Abi1	7.35E-06	1.042754	7.82E-05	TRUE
Pttg1	1.23E-05	1.042147	0.00012	TRUE
Plk3	1.08E-10	1.041249	4.48E-09	TRUE
Dgkz	8.45E-06	1.040409	8.80E-05	TRUE
Eif3l	6.51E-07	1.038927	1.00E-05	TRUE
Srrm1	0.00011	1.038724	0.000742	TRUE
Snx18	2.58E-11	1.037432	1.20E-09	TRUE
Psmb4	5.24E-05	1.036826	0.000405	TRUE
Def6	5.34E-06	1.036382	6.01E-05	TRUE
Dync1i2	5.56E-05	1.036274	0.000427	TRUE
Fnbp1	1.86E-06	1.035243	2.50E-05	TRUE
Akirin2	5.03E-07	1.03509	8.02E-06	TRUE

Rsb1l1	4.80E-05	1.032786	0.000379	TRUE
Ptpn1	1.04E-05	1.031734	0.000104	TRUE
Apobec3	0.000273	1.030512	0.001568	TRUE
Cxcr4	1.17E-07	1.030045	2.30E-06	TRUE
Hsp90b1	0.003452	1.02997	0.012356	TRUE
Sh2b1	7.34E-11	1.027859	3.12E-09	TRUE
Msi2	7.66E-09	1.027843	2.04E-07	TRUE
Naa10	4.90E-07	1.026968	7.82E-06	TRUE
Cwc15	0.000925	1.025698	0.004217	TRUE
Al467606	6.33E-07	1.02514	9.81E-06	TRUE
Ggnbp2	9.79E-05	1.024479	0.000679	TRUE
Ostc	0.000156	1.024415	0.000994	TRUE
Fyn	0.004838	1.023856	0.016241	TRUE
Prrc2c	0.000564	1.022869	0.002808	TRUE
Dnajc8	0.005799	1.022119	0.018845	TRUE
Ube2g1	5.03E-08	1.019729	1.09E-06	TRUE
Sash3	3.18E-05	1.019033	0.000269	TRUE
Sfrs18	0.000166	1.018001	0.001048	TRUE
Arhgef2	1.27E-10	1.014072	5.16E-09	TRUE
Mien1	0.000459	1.013882	0.002386	TRUE
Lbr	0.000983	1.013879	0.004434	TRUE
Atp5e	0.006055	1.013203	0.01946	TRUE
Ifrd1	4.83E-07	1.011891	7.75E-06	TRUE
Dnajc1	1.05E-07	1.011486	2.09E-06	TRUE
Fli1	9.25E-05	1.010958	0.000652	TRUE
Mrps23	5.55E-08	1.010948	1.19E-06	TRUE
Ogt	0.002452	1.009601	0.009357	TRUE
Smarca5	3.12E-06	1.008742	3.83E-05	TRUE
Fam129a	4.35E-16	1.007924	4.31E-14	TRUE
Cstb	3.60E-06	1.005583	4.35E-05	TRUE
Tnk2	3.21E-14	1.00558	2.47E-12	TRUE
Os9	2.06E-05	1.005531	0.000187	TRUE
Tmed5	2.11E-05	1.005258	0.00019	TRUE
Fam104a	0.000358	1.005179	0.001945	TRUE
Kmt2e	0.000503	1.005139	0.002555	TRUE
D16Ert472e	1.35E-08	1.004871	3.37E-07	TRUE
Snw1	3.66E-06	1.004493	4.40E-05	TRUE
Hnrnp11	1.45E-12	1.003687	8.51E-11	TRUE
Tap2	0.000478	1.003054	0.002454	TRUE
Ifnar1	9.80E-06	1.001272	9.91E-05	TRUE
Capn2	3.86E-06	1.000908	4.60E-05	TRUE
Actn1	5.32E-06	-1.02678	6.00E-05	TRUE
Dapl1	6.28E-08	-1.16357	1.33E-06	TRUE
Cd40lg	1.92E-07	-1.28461	3.56E-06	TRUE
Lef1	3.63E-09	-1.45647	1.06E-07	TRUE
Tcf7	5.21E-12	-1.54543	2.75E-10	TRUE
Igfbp4	2.46E-09	-1.57037	7.54E-08	TRUE
Satb1	1.57E-10	-1.71531	6.13E-09	TRUE

ENSMUSG00000019987	Arg1	0.548171	2
ENSMUSG00000019558	Slc6a8	0.540746	2
ENSMUSG00000030162	Olr1	0.53984	2
ENSMUSG00000025574	Tk1	0.539186	2
ENSMUSG00000028238	Atp6v0d2	0.538357	2
ENSMUSG00000028583	Pdpn	0.53812	2
ENSMUSG00000029379	Cxcl3	0.537784	2
ENSMUSG00000027358	Bmp2	0.535697	2
ENSMUSG00000039952	Dag1	0.535293	2
ENSMUSG00000031443	F7	0.534915	2
ENSMUSG00000004032	Gstm5	0.52929	2
ENSMUSG00000025355	Mmp19	0.528793	2
ENSMUSG00000032766	Gng11	0.528563	2
ENSMUSG00000025993	Slc40a1	0.528443	2
ENSMUSG00000031596	Slc7a2	0.528252	2
ENSMUSG00000029378	Areg	0.528116	2
ENSMUSG00000027611	Procr	0.528102	2
ENSMUSG00000016529	Il10	0.524609	2
ENSMUSG00000025150	Cbr2	0.523775	2
ENSMUSG00000041324	Inhba	0.523508	2
ENSMUSG00000027715	Ccna2	0.521773	2
ENSMUSG00000032725	Folr2	0.520099	2
ENSMUSG00000032085	Tagln	0.519779	2
ENSMUSG00000072812	Ahnak2	0.519242	2
ENSMUSG00000026605	Cenpf	0.518237	2
ENSMUSG00000004814	Ccl24	0.517999	2
ENSMUSG00000016283	H2-M2	0.515521	2
ENSMUSG00000037664	Cdkn1c	0.514992	2
ENSMUSG00000027276	Jag1	0.514972	2
ENSMUSG00000028339	Col15a1	0.514942	2
ENSMUSG00000041431	Ccnb1	0.51489	2
ENSMUSG00000057722	Lepr	0.514707	2
ENSMUSG00000030117	Gdf3	0.513762	2
ENSMUSG00000031375	Bgn	0.511895	2
ENSMUSG00000028111	Ctsk	0.51109	2
ENSMUSG00000025383	Il23a	0.510578	2
ENSMUSG00000028464	Tpm2	0.509618	2
ENSMUSG00000019874	Fabp7	0.509232	2
ENSMUSG00000036103	Colec12	0.508349	2
ENSMUSG00000026938	Fcna	0.508158	2
ENSMUSG00000029819	Npy	0.507753	2
ENSMUSG00000032911	Cspg4	0.507437	2
ENSMUSG00000050493	Fam167b	0.507331	2
ENSMUSG00000044701	Il27	0.506893	2
ENSMUSG00000030963	Umod	0.506761	2
ENSMUSG00000022122	Ednrb	0.506506	2
ENSMUSG00000061353	Cxcl12	0.505634	2
ENSMUSG00000026390	Marco	0.505396	2
ENSMUSG00000041202	Pla2g2d	0.50537	2
ENSMUSG00000020264	Slc36a2	0.505216	2
ENSMUSG00000015854	Cd5l	0.50424	2
ENSMUSG00000023078	Cxcl13	0.503745	2
ENSMUSG00000085949	Gm14275	0.503361	2
ENSMUSG00000047222	Ear11	0.503025	2
ENSMUSG00000033207	Mamdc2	0.50266	2
ENSMUSG00000030787	Lyve1	0.502178	2
ENSMUSG00000039196	Orm1	0.501554	2
ENSMUSG00000074486	Bglap2	0.501535	2
ENSMUSG00000018924	Alox15	0.501333	2

ENSMUSG00000029377	Ereg	0.500844	2
ENSMUSG00000104606	NA	0.500348	2
ENSMUSG00000025492	Ifitm3	0.78415	3
ENSMUSG00000018585	Atox1	0.752418	3
ENSMUSG00000027398	Il1b	0.727449	3
ENSMUSG00000015312	Gadd45b	0.723804	3
ENSMUSG00000018927	Ccl6	0.699049	3
ENSMUSG00000019122	Ccl9	0.691562	3
ENSMUSG00000069792	Wfdc17	0.672051	3
ENSMUSG00000026073	Il1r2	0.671702	3
ENSMUSG00000033213	AA467197	0.664625	3
ENSMUSG00000028341	Nr4a3	0.661368	3
ENSMUSG00000047945	Marcks1	0.660664	3
ENSMUSG00000025491	Ifitm1	0.640637	3
ENSMUSG00000030530	Furin	0.638954	3
ENSMUSG00000037820	Tgm2	0.635674	3
ENSMUSG00000027533	Fabp5	0.632839	3
ENSMUSG00000031780	Ccl17	0.627022	3
ENSMUSG00000057666	Gapdh	0.622932	3
ENSMUSG00000053113	Socs3	0.620672	3
ENSMUSG00000032487	Ptgs2	0.617128	3
ENSMUSG00000027737	Slc7a11	0.616564	3
ENSMUSG00000098178	Gm26924	0.613508	3
ENSMUSG00000025473	Adam8	0.61268	3
ENSMUSG00000056737	Capg	0.612423	3
ENSMUSG00000035692	Isg15	0.601497	3
ENSMUSG00000043421	Hilpda	0.597497	3
ENSMUSG00000062248	Cks2	0.597213	3
ENSMUSG00000027360	Hdc	0.592752	3
ENSMUSG00000031762	Mt2	0.592531	3
ENSMUSG00000028044	Cks1b	0.589796	3
ENSMUSG00000045502	Niacr1	0.588304	3
ENSMUSG00000028270	Gbp2	0.584613	3
ENSMUSG00000042265	Trem1	0.571589	3
ENSMUSG00000009633	G0s2	0.565361	3
ENSMUSG00000029177	Cenpa	0.562966	3
ENSMUSG00000022126	Irg1	0.562329	3
ENSMUSG00000049932	H2afx	0.561318	3
ENSMUSG00000017737	Mmp9	0.558571	3
ENSMUSG00000051748	1100001G20Rik	0.553594	3
ENSMUSG00000005125	Ndrp1	0.551633	3
ENSMUSG00000026822	Lcn2	0.549665	3
ENSMUSG00000029417	Cxcl9	0.547209	3
ENSMUSG00000022651	Retnlg	0.546034	3
ENSMUSG00000037095	Lrg1	0.543865	3
ENSMUSG00000031004	Mki67	0.543532	3
ENSMUSG00000001131	Timp1	0.542297	3
ENSMUSG00000020641	Rsad2	0.542136	3
ENSMUSG00000033508	Asprv1	0.537715	3
ENSMUSG00000017716	Birc5	0.536299	3
ENSMUSG00000040204	2810417H13Rik	0.535845	3
ENSMUSG00000020914	Top2a	0.535636	3
ENSMUSG00000028873	Cdca8	0.535212	3
ENSMUSG00000000303	Cdh1	0.534406	3
ENSMUSG00000023505	Cdca3	0.529546	3
ENSMUSG00000019942	Cdk1	0.529299	3
ENSMUSG00000027306	Nusap1	0.528307	3
ENSMUSG00000032218	Ccnb2	0.52816	3
ENSMUSG00000040963	Asgr2	0.526497	3

ENSMUSG00000044103	Il1f9	0.526211	3
ENSMUSG0000001403	Ube2c	0.52578	3
ENSMUSG00000059657	Stfa2l1	0.522402	3
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ENSMUSG00000025746	Il6	0.521703	3
ENSMUSG00000026580	Selp	0.519972	3
ENSMUSG00000045328	Cenpe	0.518001	3
ENSMUSG00000020649	Rrm2	0.516865	3
ENSMUSG00000058773	Hist1h1b	0.516861	3
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ENSMUSG00000023224	Serping1	0.510247	3
ENSMUSG00000053030	Spink2	0.510009	3
ENSMUSG00000028307	Aldob	0.50997	3
ENSMUSG00000027239	Mdk	0.509658	3
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ENSMUSG00000004988	Fxyd4	0.507369	3
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ENSMUSG00000029661	Col1a2	0.505882	3
ENSMUSG00000033910	Gucy1a3	0.505877	3
ENSMUSG00000020810	Cygb	0.504822	3
ENSMUSG00000022157	Mcpt8	0.504791	3
ENSMUSG00000030069	Prok2	0.504772	3
ENSMUSG00000032323	Cyp11a1	0.50472	3
ENSMUSG00000029372	Ppbp	0.50448	3
ENSMUSG00000001865	Cpa3	0.504043	3
ENSMUSG00000019899	Lama2	0.503719	3
ENSMUSG00000032484	Ngp	0.50365	3
ENSMUSG00000027408	Cpxm1	0.503491	3
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ENSMUSG00000026295	Spp2	0.503258	3
ENSMUSG00000027513	Pck1	0.50271	3
ENSMUSG00000009145	Dqx1	0.50262	3
ENSMUSG00000026414	Tnnt2	0.502439	3
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ENSMUSG00000069917	Hba-a2	0.502358	3
ENSMUSG00000071561	BC100530	0.502351	3
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ENSMUSG00000071562	Stfa1	0.502229	3
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ENSMUSG00000094686	Ccl21a	0.50121	3

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ENSMUSG00000071341	Egr4	0.500627	3
ENSMUSG00000022584	Ly6c2	0.660858	4
ENSMUSG00000038991	Txndc5	0.653249	4
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ENSMUSG00000046718	Bst2	0.626164	4
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ENSMUSG00000022496	Tnfrsf17	0.607217	4
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ENSMUSG00000020592	Sdc1	0.60317	4
ENSMUSG00000059743	Fdps	0.602889	4
ENSMUSG00000018293	Pfn1	0.599429	4
ENSMUSG00000044052	Ccr10	0.599394	4
ENSMUSG00000017002	Slpi	0.5944	4
ENSMUSG00000074227	Spint2	0.588642	4
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ENSMUSG00000031880	Rrad	0.572631	4
ENSMUSG00000045394	Epcam	0.562837	4
ENSMUSG00000027073	Prg2	0.559435	4
ENSMUSG00000027203	Dut	0.550099	4
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ENSMUSG00000065987	Cd209b	0.528057	4
ENSMUSG00000025279	Dnase1l3	0.523181	4
ENSMUSG00000028766	Alpl	0.520271	4
ENSMUSG00000052305	Hbb-bs	0.519599	4
ENSMUSG00000022613	Miox	0.516269	4
ENSMUSG00000028435	Aqp3	0.515222	4
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ENSMUSG00000024503	Spink3	0.50937	4
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ENSMUSG00000057933	Gsta2	0.507186	4
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ENSMUSG00000023013	Aqp2	0.505619	4
ENSMUSG00000044303	Cdkn2a	0.505505	4
ENSMUSG00000025270	Alas2	0.503074	4
ENSMUSG00000020310	Madcam1	0.502917	4
ENSMUSG00000084843	B230312C02Rik	0.502881	4
ENSMUSG00000036602	Alx1	0.502813	4
ENSMUSG00000027500	Strmn2	0.502727	4
ENSMUSG00000079168	Cd209g	0.502672	4
ENSMUSG00000051906	Cd209f	0.502617	4
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ENSMUSG00000027718	Il21	0.502481	4
ENSMUSG00000024032	Tff1	0.502427	4
ENSMUSG00000091956	C2cd4b	0.50239	4
ENSMUSG00000073940	Hbb-bt	0.502144	4
ENSMUSG00000074634	Gm7120	0.501861	4
ENSMUSG00000003379	Cd79a	0.9965	5
ENSMUSG00000057098	Ebf1	0.98457	5
ENSMUSG00000037548	H2-DMb2	0.939187	5
ENSMUSG00000090733	Rps27	0.93442	5
ENSMUSG00000034634	Ly6d	0.925145	5
ENSMUSG00000060743	H3f3a	0.901949	5
ENSMUSG00000037944	Ccr7	0.888942	5
ENSMUSG00000042474	Faim3	0.887946	5
ENSMUSG00000024673	Ms4a1	0.88714	5
ENSMUSG00000040592	Cd79b	0.884087	5
ENSMUSG00000040952	Rps19	0.882695	5
ENSMUSG00000045128	Rpl18a	0.874224	5
ENSMUSG00000074129	Rpl13a	0.871743	5
ENSMUSG00000028234	Rps20	0.868258	5
ENSMUSG00000064351	mt-Co1	0.867674	5
ENSMUSG00000064357	mt-Atp6	0.866085	5
ENSMUSG00000008683	Rps15a	0.865623	5
ENSMUSG00000022587	Ly6e	0.86465	5
ENSMUSG00000000740	Rpl13	0.860956	5
ENSMUSG00000061477	Rps7	0.859508	5
ENSMUSG00000064358	mt-Co3	0.8512	5
ENSMUSG00000031431	Tsc22d3	0.850099	5
ENSMUSG00000025647	Shisa5	0.846977	5
ENSMUSG00000003970	Rpl8	0.84561	5
ENSMUSG00000062997	Rpl35	0.843366	5
ENSMUSG00000041453	Rpl21	0.842797	5
ENSMUSG00000062328	Rpl17	0.842391	5
ENSMUSG00000025290	Rps24	0.842359	5
ENSMUSG00000038274	Fau	0.841375	5
ENSMUSG00000063457	Rps15	0.835695	5
ENSMUSG00000032399	Rpl4	0.832817	5
ENSMUSG00000064370	mt-Cytb	0.831495	5
ENSMUSG00000058470	Gm8369	0.831226	5
ENSMUSG00000036478	Btg1	0.829	5
ENSMUSG00000046330	Rpl37a	0.826996	5
ENSMUSG00000037563	Rps16	0.823466	5
ENSMUSG00000064354	mt-Co2	0.821598	5
ENSMUSG00000090862	Rps13	0.820653	5
ENSMUSG00000058546	Rpl23a	0.820234	5
ENSMUSG00000062006	Rpl34	0.819585	5
ENSMUSG00000008668	Rps18	0.812743	5
ENSMUSG00000028081	Rps3a1	0.812378	5
ENSMUSG00000079641	Rpl39	0.810747	5
ENSMUSG00000012848	Rps5	0.807799	5
ENSMUSG00000093674	Rpl41	0.806946	5
ENSMUSG00000034892	Rps29	0.805262	5
ENSMUSG00000020719	Ddx5	0.803158	5
ENSMUSG00000028495	Rps6	0.800708	5
ENSMUSG00000055148	Klf2	0.799276	5
ENSMUSG00000038900	Rpl12	0.799	5
ENSMUSG00000030744	Rps3	0.792683	5
ENSMUSG00000057863	Rpl36	0.792338	5
ENSMUSG00000041841	Rpl37	0.791832	5

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ENSMUSG00000057322	Rpl38	0.789317	5
ENSMUSG00000071076	Jund	0.786839	5
ENSMUSG00000060636	Rpl35a	0.786778	5
ENSMUSG00000047675	Rps8	0.784629	5
ENSMUSG00000046364	Rpl27a	0.783918	5
ENSMUSG00000064341	mt-Nd1	0.77984	5
ENSMUSG00000060938	Rpl26	0.777191	5
ENSMUSG00000057841	Rpl32	0.776129	5
ENSMUSG00000025794	Rpl14	0.774958	5
ENSMUSG00000090137	Uba52	0.773688	5
ENSMUSG00000049517	Rps23	0.771516	5
ENSMUSG00000071415	Rpl23	0.771126	5
ENSMUSG00000026238	Ptma	0.766507	5
ENSMUSG00000044533	Rps2	0.76469	5
ENSMUSG00000024608	Rps14	0.763522	5
ENSMUSG00000024353	Mzb1	0.762888	5
ENSMUSG00000047139	Cd24a	0.76142	5
ENSMUSG00000031320	Rps4x	0.757631	5
ENSMUSG00000032518	Rpsa	0.75205	5
ENSMUSG00000073702	Rpl31	0.750505	5
ENSMUSG00000022205	Sub1	0.749649	5
ENSMUSG00000064363	mt-Nd4	0.739044	5
ENSMUSG00000092341	Malat1	0.732298	5
ENSMUSG00000006333	Rps9	0.72828	5
ENSMUSG00000030156	Cd69	0.717562	5
ENSMUSG00000037742	Eef1a1	0.715273	5
ENSMUSG00000067274	Rplp0	0.713872	5
ENSMUSG00000061787	Rps17	0.71188	5
ENSMUSG00000016559	H3f3b	0.688559	5
ENSMUSG00000015396	Cd83	0.686277	5
ENSMUSG00000061983	Rps12	0.678124	5
ENSMUSG00000027368	Dusp2	0.667522	5
ENSMUSG00000049422	Chchd10	0.652847	5
ENSMUSG00000060143	Gm10076	0.652241	5
ENSMUSG00000000903	Vpreb3	0.651351	5
ENSMUSG00000044734	Serpinb1a	0.640196	5
ENSMUSG00000066551	Hmgb1	0.640032	5
ENSMUSG00000040435	Ppp1r15a	0.630539	5
ENSMUSG00000086503	Xist	0.58572	5
ENSMUSG00000021701	Plk2	0.565996	5
ENSMUSG00000036181	Hist1h1c	0.557838	5
ENSMUSG00000047281	Sfn	0.552997	5
ENSMUSG00000090223	Pcp4	0.505267	5
ENSMUSG00000051079	Rgs13	0.504868	5
ENSMUSG00000002033	Cd3g	0.934412	6
ENSMUSG00000032094	Cd3d	0.916801	6
ENSMUSG00000032011	Thy1	0.878962	6
ENSMUSG00000030742	Lat	0.864963	6
ENSMUSG00000032093	Cd3e	0.858563	6
ENSMUSG00000026012	Cd28	0.84762	6
ENSMUSG00000064109	Hcst	0.843777	6
ENSMUSG00000079523	Tmsb10	0.84317	6
ENSMUSG00000000409	Lck	0.837011	6
ENSMUSG00000056290	Ms4a4b	0.823474	6
ENSMUSG00000033220	Rac2	0.817246	6
ENSMUSG00000060550	H2-Q7	0.803985	6
ENSMUSG00000024399	Ltb	0.801508	6

ENSMUSG00000047867	Gimap6	0.78718	6
ENSMUSG00000054435	Gimap4	0.777665	6
ENSMUSG00000066278	Vps37b	0.767623	6
ENSMUSG00000048521	Cxcr6	0.760894	6
ENSMUSG00000027863	Cd2	0.753129	6
ENSMUSG00000041959	S100a10	0.748185	6
ENSMUSG00000026009	Icos	0.718733	6
ENSMUSG00000044258	Ctla2a	0.693897	6
ENSMUSG00000061232	H2-K1	0.686923	6
ENSMUSG00000032238	Rora	0.6862	6
ENSMUSG00000007892	Rplp1	0.682621	6
ENSMUSG00000071866	Ppia	0.67404	6
ENSMUSG00000045817	Zfp3612	0.673714	6
ENSMUSG00000060126	Tpt1	0.672592	6
ENSMUSG00000022018	Rgcc	0.649668	6
ENSMUSG00000015619	Gata3	0.644037	6
ENSMUSG00000052837	Junb	0.641141	6
ENSMUSG00000075602	Ly6a	0.638196	6
ENSMUSG00000053044	Cd8b1	0.620122	6
ENSMUSG00000053977	Cd8a	0.601785	6
ENSMUSG00000048376	F2r	0.594574	6
ENSMUSG00000086320	Gm12840	0.594468	6
ENSMUSG000000106874	NA	0.589567	6
ENSMUSG00000033307	Mif	0.588532	6
ENSMUSG00000028410	Dnaja1	0.588155	6
ENSMUSG00000054717	Hmgb2	0.585366	6
ENSMUSG00000026011	Ctla4	0.576976	6
ENSMUSG00000025997	Ikzf2	0.570131	6
ENSMUSG00000031933	Folr4	0.568896	6
ENSMUSG00000067613	5430421N21Rik	0.557549	6
ENSMUSG00000022015	Tnfsf11	0.55522	6
ENSMUSG00000026989	Dapl1	0.551841	6
ENSMUSG00000026285	Pdcd1	0.55153	6
ENSMUSG00000000869	Il4	0.550323	6
ENSMUSG00000024065	Ehd3	0.546647	6
ENSMUSG00000029075	Tnfrsf4	0.54378	6
ENSMUSG00000026475	Rgs16	0.543326	6
ENSMUSG00000042385	Gzmk	0.539097	6
ENSMUSG00000028362	Tnfsf8	0.535589	6
ENSMUSG00000079018	Ly6c1	0.533847	6
ENSMUSG00000018916	Csf2	0.53342	6
ENSMUSG00000030669	Calca	0.518359	6
ENSMUSG00000025929	Il17a	0.517123	6
ENSMUSG00000029875	Al836003	0.511872	6
ENSMUSG00000020702	Ccl1	0.510802	6
ENSMUSG00000025461	Cd163l1	0.510793	6
ENSMUSG00000020383	Il13	0.509188	6
ENSMUSG00000051225	Fam83a	0.508557	6
ENSMUSG00000041872	Il17f	0.504595	6
ENSMUSG00000036117	Il5	0.503598	6
ENSMUSG00000074695	Il22	0.503374	6
ENSMUSG00000045573	Penk	0.501455	6
ENSMUSG00000035557	Krt17	0.500992	6
ENSMUSG00000029151	Slc30a3	0.500348	6
ENSMUSG00000018819	Lsp1	0.89868	7
ENSMUSG00000031494	Cd209a	0.891715	7
ENSMUSG00000031838	Ifi30	0.87975	7
ENSMUSG00000001020	S100a4	0.871674	7
ENSMUSG00000002204	Napsa	0.86798	7

ENSMUSG00000006360	Crip1	0.855322	7
ENSMUSG00000026728	Vim	0.852862	7
ENSMUSG00000048277	Syngn2	0.85067	7
ENSMUSG00000001025	S100a6	0.844812	7
ENSMUSG00000044162	Tnip3	0.844233	7
ENSMUSG00000027907	S100a11	0.830865	7
ENSMUSG00000030103	Bhlhe40	0.820413	7
ENSMUSG00000037894	H2afz	0.816569	7
ENSMUSG00000000594	Gm2a	0.804866	7
ENSMUSG00000001128	Cfp	0.80466	7
ENSMUSG00000032231	Anxa2	0.801368	7
ENSMUSG00000000318	Clec10a	0.797395	7
ENSMUSG00000035678	Tnfsf9	0.794386	7
ENSMUSG00000018821	Avpi1	0.792984	7
ENSMUSG00000060591	Ifitm2	0.777529	7
ENSMUSG00000049775	Tmsb4x	0.769753	7
ENSMUSG00000021025	Nfkbia	0.737218	7
ENSMUSG00000024334	H2-Oa	0.73624	7
ENSMUSG00000026547	Tagln2	0.734319	7
ENSMUSG00000037649	H2-DMa	0.716199	7
ENSMUSG00000003429	Rps11	0.712243	7
ENSMUSG00000001270	Ckb	0.708771	7
ENSMUSG00000024675	Ms4a4c	0.708185	7
ENSMUSG00000023067	Cdkn1a	0.706696	7
ENSMUSG00000024014	Pim1	0.705265	7
ENSMUSG00000036781	Rps27l	0.697837	7
ENSMUSG00000030432	Rpl28	0.697751	7
ENSMUSG00000029580	Actb	0.697647	7
ENSMUSG00000099974	NA	0.697157	7
ENSMUSG00000030208	Emp1	0.660715	7
ENSMUSG00000076441	Ass1	0.658849	7
ENSMUSG00000000531	Grasp	0.657135	7
ENSMUSG00000033083	Tbc1d4	0.655451	7
ENSMUSG00000023004	Tuba1b	0.62691	7
ENSMUSG00000031779	Ccl22	0.623932	7
ENSMUSG00000031827	Cotl1	0.622789	7
ENSMUSG00000001525	Tubb5	0.616014	7
ENSMUSG00000050912	Tmem123	0.604685	7
ENSMUSG00000001627	lfrd1	0.603294	7
ENSMUSG00000074141	Il4i1	0.59959	7
ENSMUSG00000031495	Cd209d	0.588691	7
ENSMUSG00000029430	Ran	0.580836	7
ENSMUSG00000003814	Calr	0.575369	7
ENSMUSG00000053560	Ier2	0.554698	7
ENSMUSG00000029581	Fscn1	0.550538	7
ENSMUSG00000041046	Ramp3	0.545039	7
ENSMUSG00000030605	Mfge8	0.542817	7
ENSMUSG00000013584	Aldh1a2	0.539639	7
ENSMUSG00000003352	Cacnb3	0.537183	7
ENSMUSG00000046733	Gprc5a	0.535726	7
ENSMUSG00000028100	Nudt17	0.534529	7
ENSMUSG00000074476	Spc24	0.528015	7
ENSMUSG00000004296	Il12b	0.524366	7
ENSMUSG00000019489	Cd70	0.519382	7
ENSMUSG00000039519	Cyp7b1	0.51804	7
ENSMUSG00000044309	Apol7c	0.51752	7
ENSMUSG00000021367	Edn1	0.516286	7
ENSMUSG00000069272	Hist1h2ae	0.514815	7
ENSMUSG00000040197	Cd209e	0.512052	7

ENSMUSG00000022548	Apod	0.510909	7
ENSMUSG00000036578	Fxyd7	0.510673	7
ENSMUSG00000086862	Gm13546	0.510421	7
ENSMUSG00000024990	Rbp4	0.503631	7
ENSMUSG00000021490	Slc34a1	0.503595	7
ENSMUSG00000049436	Upk1b	0.503404	7
ENSMUSG00000078795	Ceacam15	0.503233	7
ENSMUSG00000033765	Calm4	0.502647	7
ENSMUSG00000079162	Trim43b	0.500397	7
ENSMUSG00000004612	Nkg7	0.818131	8
ENSMUSG00000030165	Klrd1	0.816996	8
ENSMUSG00000025163	Cd7	0.799569	8
ENSMUSG00000030149	Klrk1	0.795719	8
ENSMUSG00000035042	Ccl5	0.792748	8
ENSMUSG00000024910	Ctsw	0.786281	8
ENSMUSG00000062524	Ncr1	0.78289	8
ENSMUSG00000075010	AW112010	0.781075	8
ENSMUSG00000030325	Klrb1c	0.780606	8
ENSMUSG00000045826	Ptprcap	0.775549	8
ENSMUSG00000050241	Klre1	0.772733	8
ENSMUSG00000068220	Lgals1	0.769033	8
ENSMUSG00000026576	Atp1b1	0.760814	8
ENSMUSG00000054892	Txk	0.749954	8
ENSMUSG00000023132	Gzma	0.73326	8
ENSMUSG00000045827	Serpinb9	0.72163	8
ENSMUSG00000028214	Gem	0.719923	8
ENSMUSG00000026573	Xcl1	0.717598	8
ENSMUSG00000041515	Irf8	0.710071	8
ENSMUSG00000042842	Serpinb6b	0.708894	8
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