

Supplemental material

Differential Effects of HDAC8 Targeting on Foxp3+ T-regulatory Cells and Effector T-Cells Promote Anti-tumor Immunity

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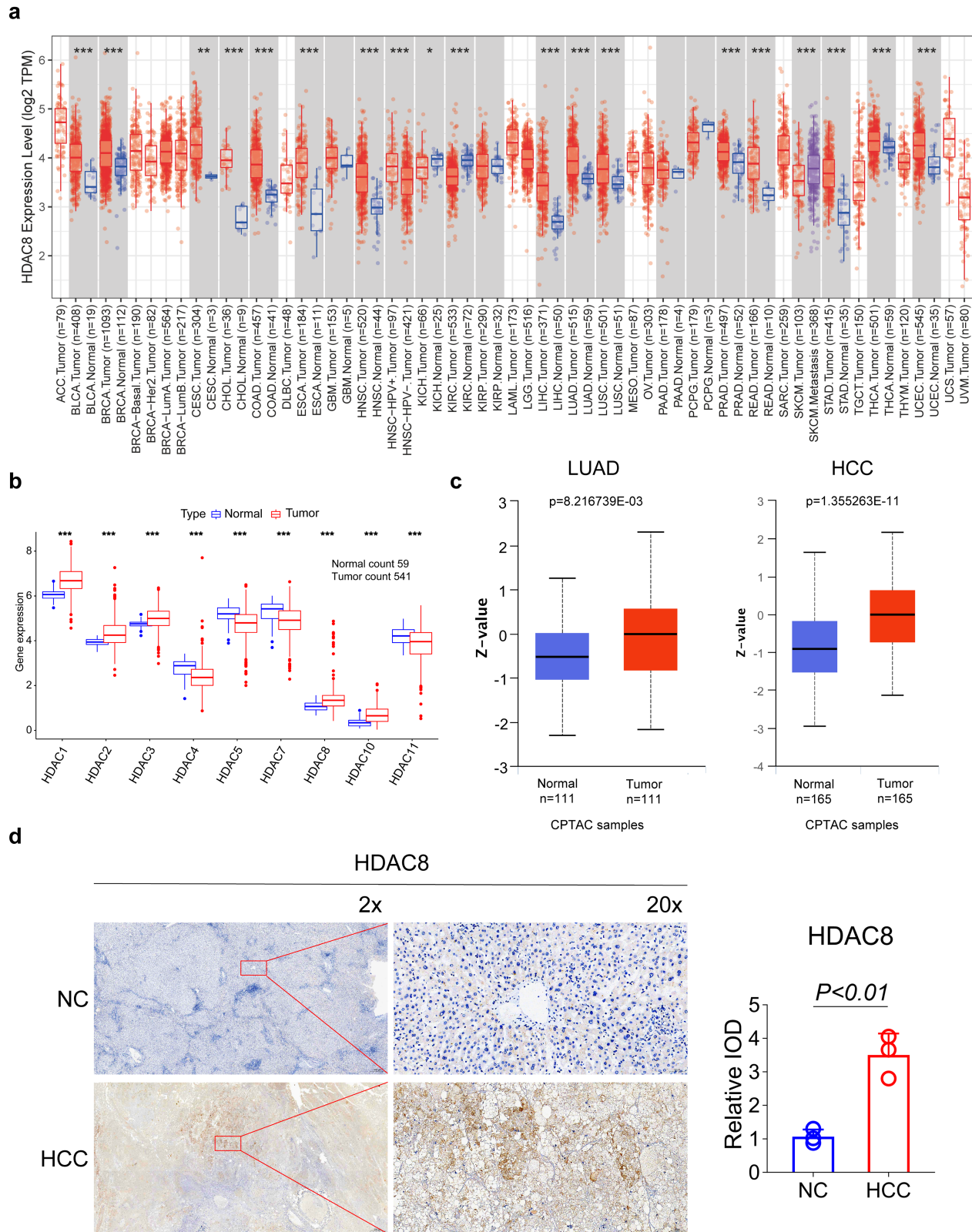


Fig. S1: HDAC8 expression is upregulated in human solid tumors. (a) TIMER2 was used to analyze the expression of the HDAC8 gene in different cancers or specific cancer subtypes. (b) TCGA database was used to analyze the expression levels of HDAC family genes in LUAD. (c) CPTAC module of UALCAN database was used to analyze the expression differences of HDAC8 between LUAD, HCC and normal tissues. (d)

Immunohistochemical analysis of HDAC8 in HCC and peri-cancerous tissues. Statistical analysis involved comparisons between two groups using a two-tailed Student's t-test for normally distributed data.

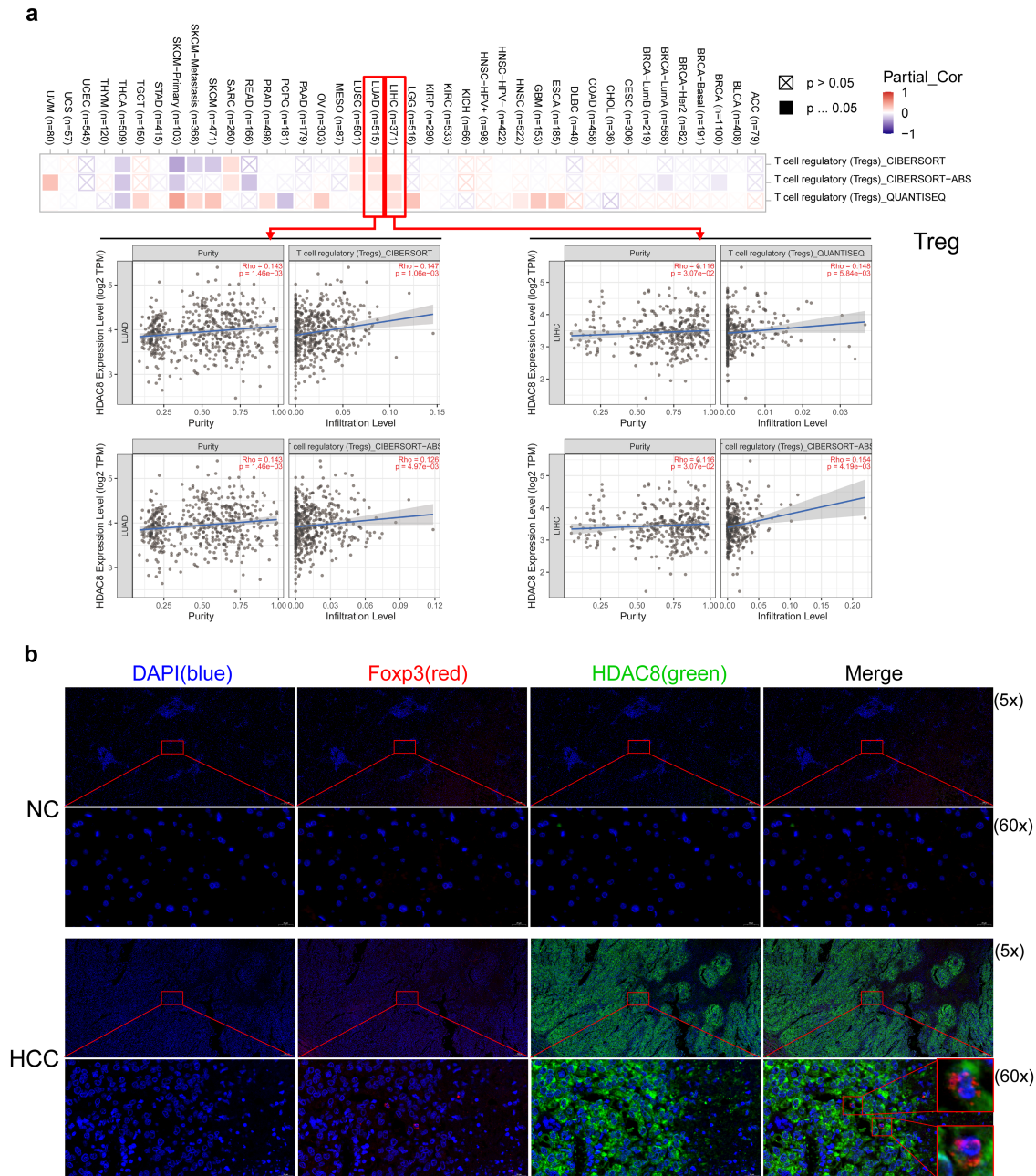


Fig. S2: HDAC8 promotes Treg infiltration in human solid tumors. (a) TIMER2 database was used to analyze the correlation between immune infiltration of Treg and HDAC8 expression. We used different algorithms to analyze the potential correlation between HDAC8 gene expression level and Treg invasion level in all types of cancer in the TCGA. (b) Representative combined staining of HDAC8 (green), Foxp3 (red), and 4',6-diamidino-2-phenylindole (DAPI) (blue) in tumor tissues and para-carcinoma tissues of patients with HCC. Statistical analysis involved comparisons between two groups using a two-tailed Student's t-test for normally distributed data.

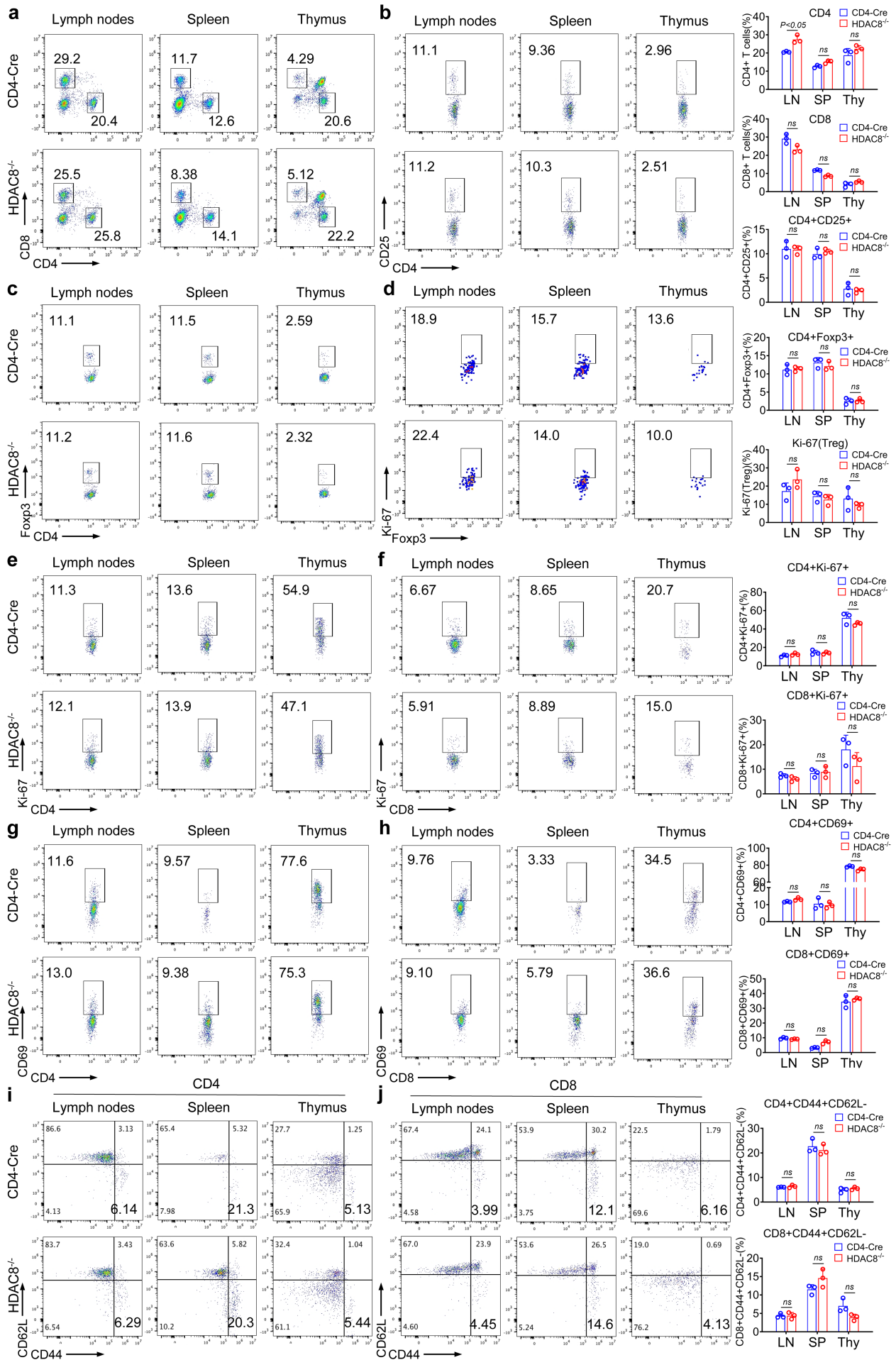


Fig. S3: Conditional knockout of HDAC8 has negligible effects on T cell development. (a) Flow cytometry was used to analysis the expression levels of CD4⁺/CD8⁺ T cells in lymph nodes, spleen and thymus of CD4-Cre and HDAC8^{-/-} mice. (b-c) Flow cytometry was used to analysis the expression levels of Tregs in lymph nodes, spleen and thymus of CD4-Cre and HDAC8^{-/-} mice. (d-f) Flow cytometry was used to analysis the expression levels of Ki-67 in lymph nodes, spleen and thymus of CD4-Cre and HDAC8^{-/-} mice. (g-h) Flow cytometry was used to analysis the expression levels of CD4⁺CD69⁺ and CD8⁺CD69⁺ in lymph nodes, spleen and thymus of CD4-Cre and HDAC8^{-/-} mice. (i-j) Flow cytometry was used to analysis the expression levels of CD44⁺CD62l⁻ in lymph nodes, spleen and thymus of CD4-Cre and HDAC8^{-/-} mice. Statistical analysis involved comparisons between two groups using a two-tailed Student's t-test for normally distributed data.

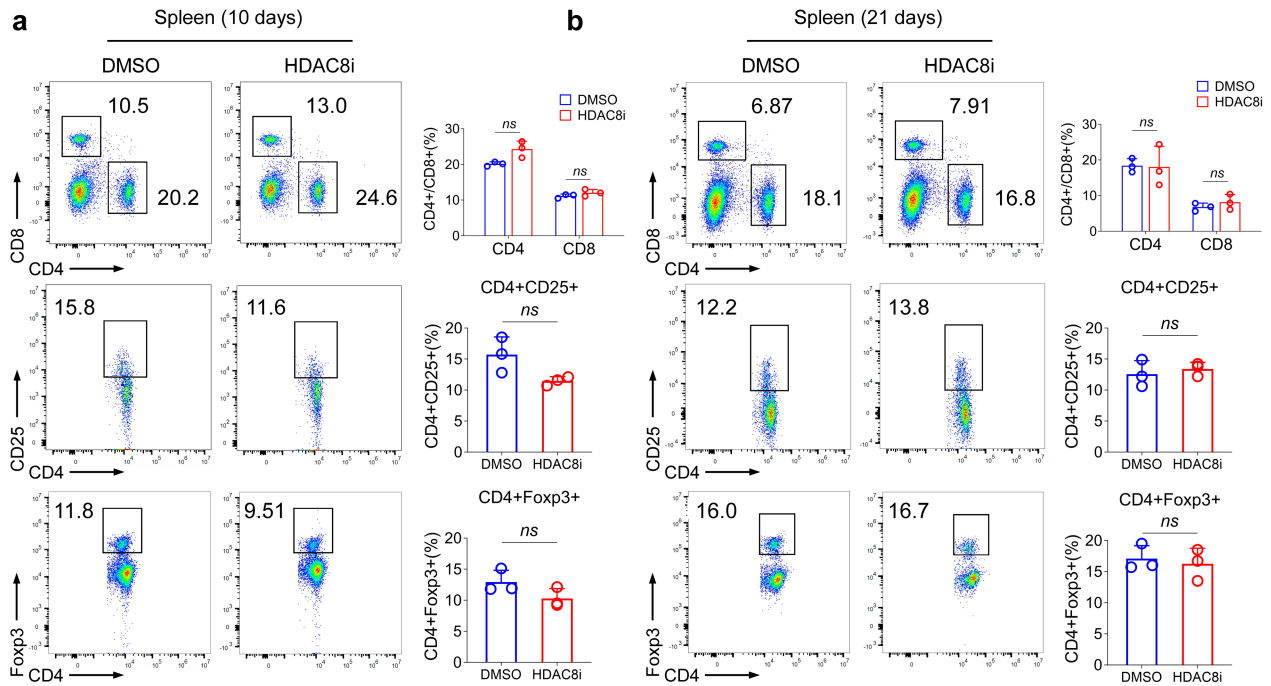


Fig. S4: (a) Flow cytometry was used to analyze the expression of CD4⁺ T cells (Gate: CD4⁺), CD8⁺ T cells (Gate: CD8⁺) and Treg cells (Gate: CD4⁺Foxp3⁺, CD4⁺CD25⁺) in spleen at 10 days after implantation of H22 cells(n=3/group). (b) Flow cytometry was used to analyze the expression of CD4⁺ T cells (Gate: CD4⁺), CD8⁺ T cells (Gate: CD8⁺) and Treg cells (Gate: CD4⁺Foxp3⁺, CD4⁺CD25⁺) in spleen at 21 days after implantation of H22 cells(n=3/group). Assays were run in triplicate and repeated at least 3 times. The results of a representative experiment are shown. Data were expressed as the mean \pm SD of three independent experiments (ns=not significant). Statistical analysis: Comparisons between two groups utilized a two-tailed Student's t-test for normally distributed data.

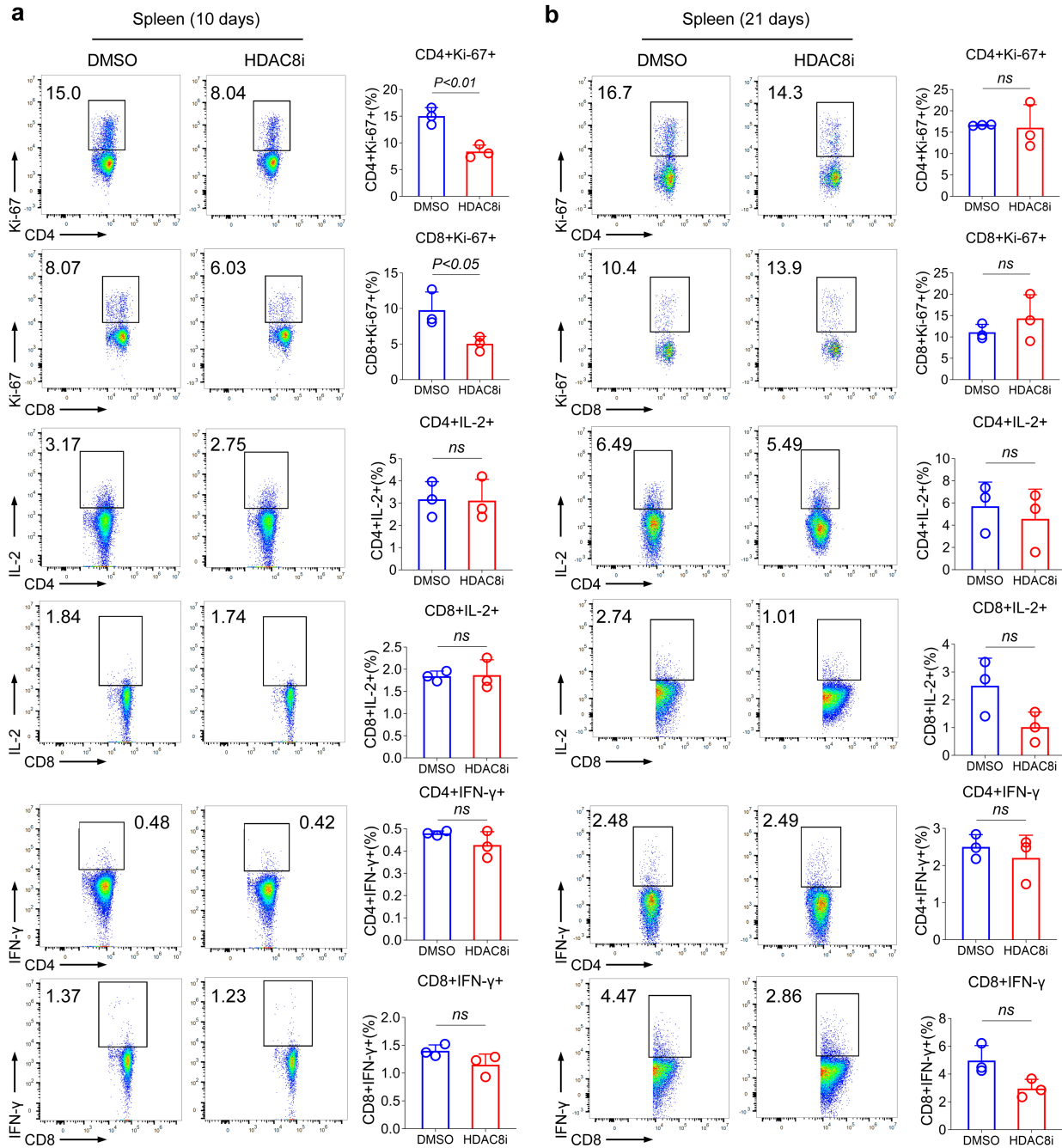


Fig. S5: (a) Flow cytometry was used to analyze the expression of Ki-67, IL-2 and IFN- γ in spleen at 10 days after implantation of H22 cells(n=3/group). (b) Flow cytometry was used to analyze the expression of Ki-67, IL-2 and IFN- γ in spleen at 21 days after implantation of H22 cells(n=3/group). Assays were run in triplicate and repeated at least 3 times. The results of a representative experiment are shown. Data were expressed as the mean \pm SD of three independent experiments (ns=not significant). Statistical analysis involved comparisons between two groups using a two-tailed Student's t-test for normally distributed data.

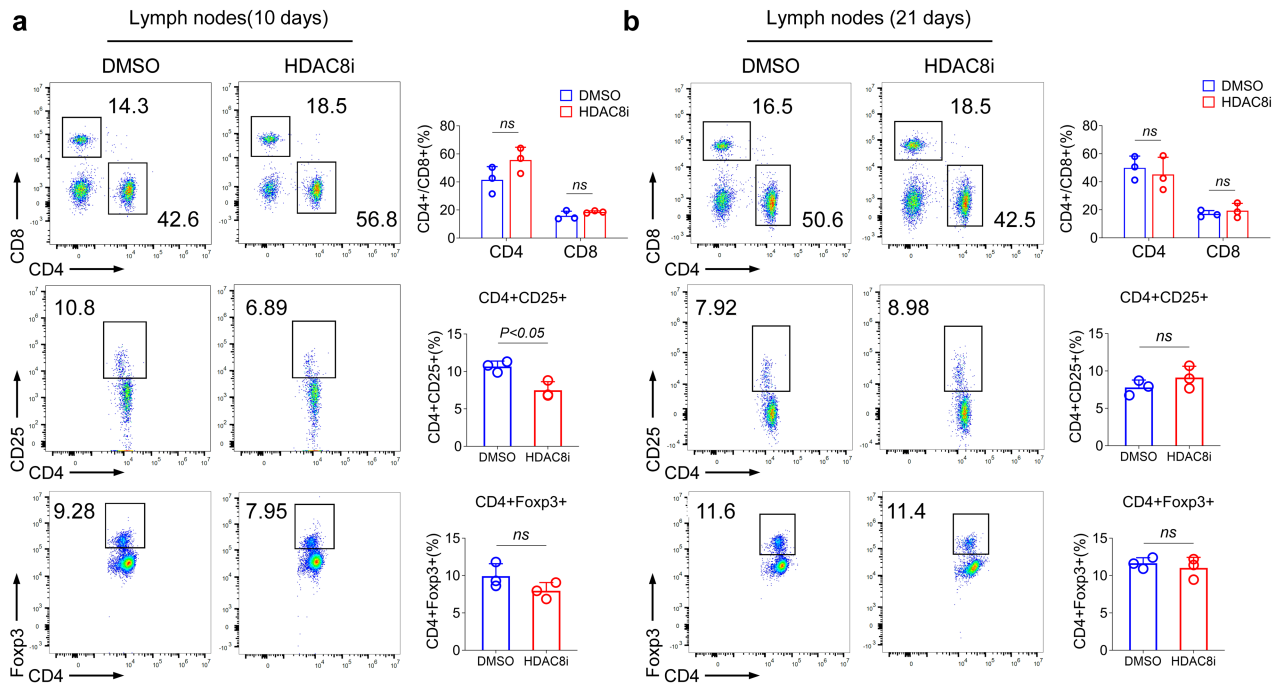


Fig. S6: (a) Flow cytometry was used to analyze the expression of CD4+ T cells (Gate: CD4+), CD8+ T cells (Gate: CD8+) and Treg cells (Gate: CD4+Foxp3+, CD4+CD25+) in lymph nodes at 10 days after implantation of H22 cells (n=3/group). (b) Flow cytometry was used to analyze the expression of CD4+ T cells (Gate: CD4+), CD8+ T cells (Gate: CD8+) and Treg cells (Gate: CD4+Foxp3+, CD4+CD25+) in lymph nodes at 21 days after implantation of H22 cells (n=3/group). Assays were run in triplicate and repeated at least 3 times. The results of a representative experiment are shown. Data were expressed as the mean \pm SD of three independent experiments (ns=not significant). Statistical analysis: Comparisons between two groups utilized a two-tailed Student's t-test for normally distributed data.

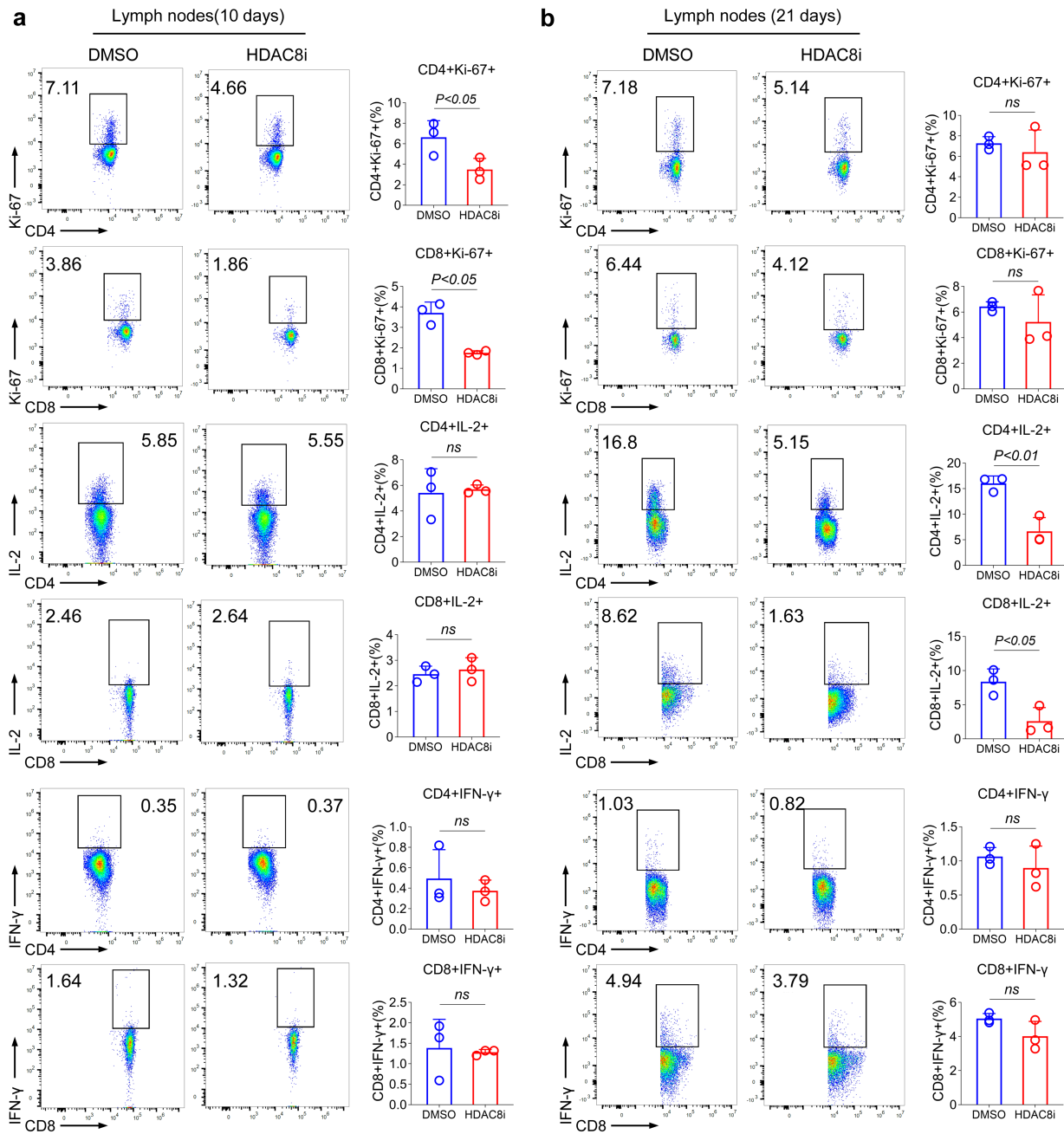


Fig. S7: (a) Flow cytometry was used to analyze the expression of Ki-67, IL-2 and IFN- γ in lymph nodes at 10 days after implantation of H22 cells(n=3/group). (b) Flow cytometry was used to analyze the expression of Ki-67, IL-2 and IFN- γ in lymph nodes at 21 days after implantation of H22 cells(n=3/group). Assays were run in triplicate and repeated at least 3 times. The results of a representative experiment are shown. Data were expressed as the mean \pm SD of three independent experiments (ns=not significant). Statistical analysis: Comparisons between two groups utilized a two-tailed Student's t-test for normally distributed data.

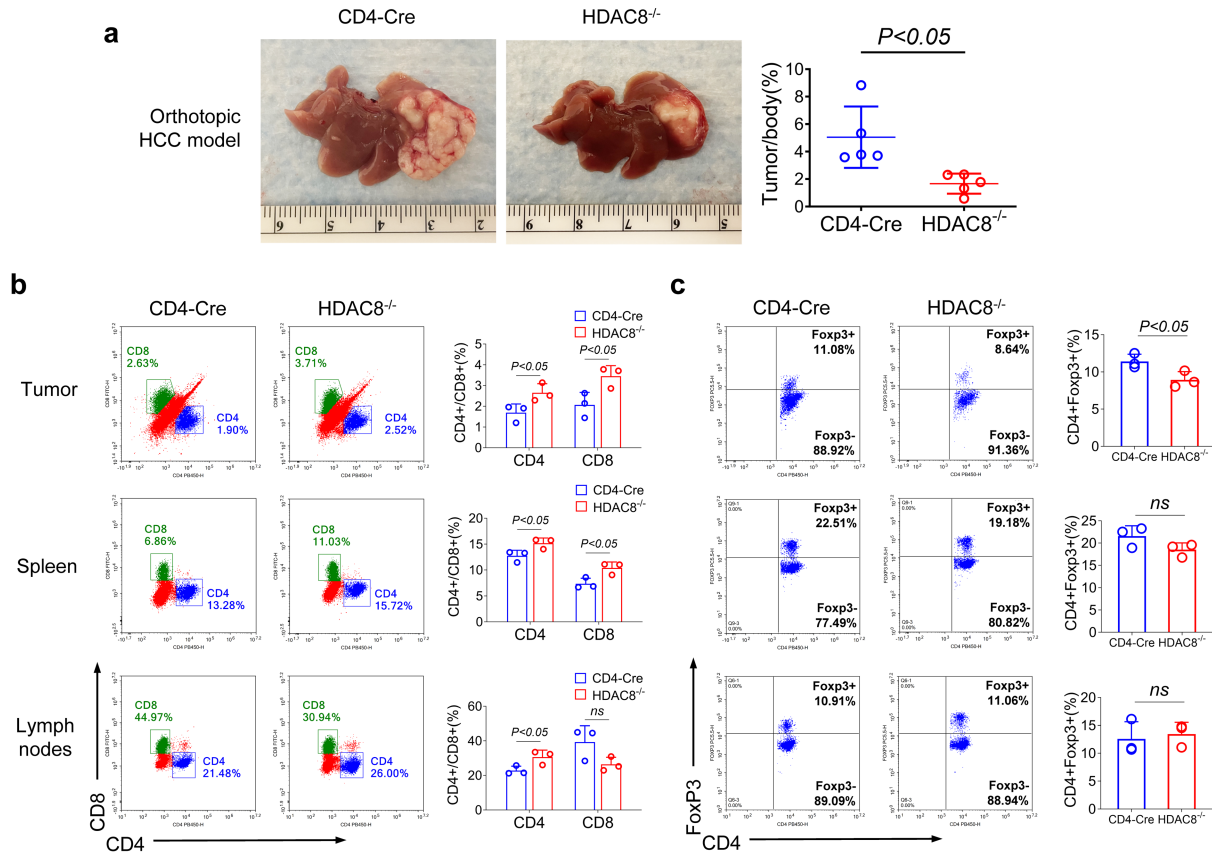


Fig. S8: Conditional deletion of HDAC8 promotes anti-tumor immunity in orthotopic HCC model. (a) Tumor/body weight ratios of WT and HDAC8^{-/-} mice (n=5/group) at 21 days. (b, c) Data are expressed as changes in CD4⁺ T cells (Gate: CD4⁺), CD8⁺ T cells (Gate: CD8⁺), Treg (Gate: CD4⁺Foxp3⁺), and Teff cells (Gate: CD4⁺Foxp3⁻) in HCC tumors, spleen, and lymph nodes (n=3/group). Assays were run in triplicate and repeated at least 3 times. The results of a representative experiment are shown. Data were expressed as the mean \pm SD of three independent experiments (ns=not significant). Statistical analysis: Comparisons between two groups utilized a two-tailed Student's t-test for normally distributed data.

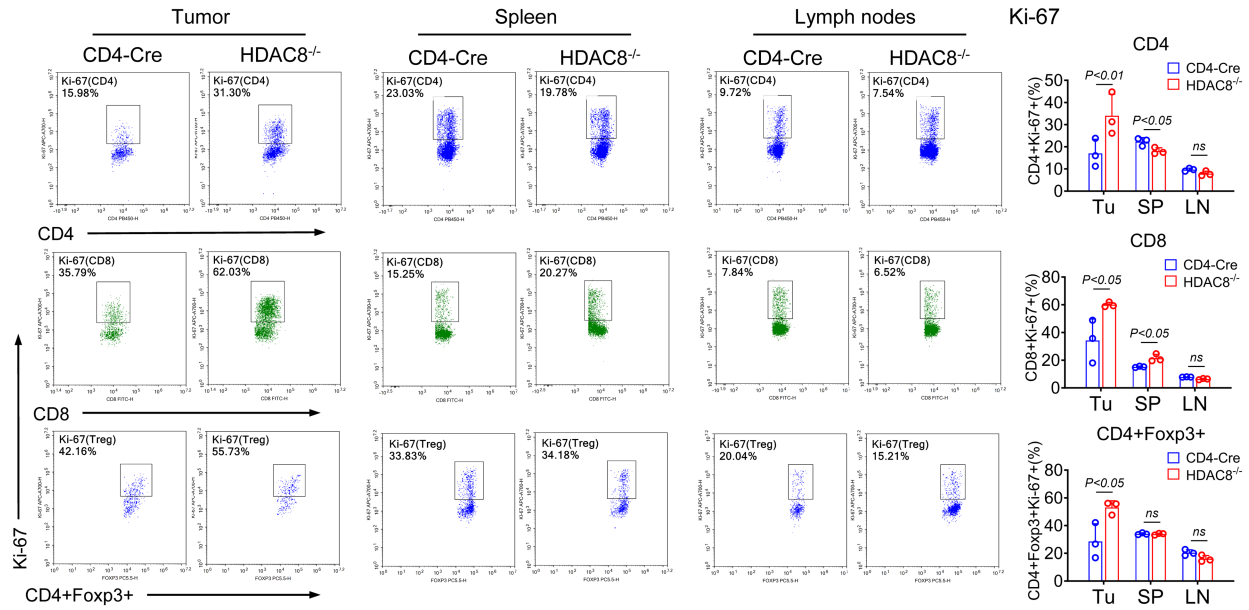


Fig. S9: Conditional knockout of HDAC8 promoted T cell proliferation in orthotopic HCC model. Expression of Ki-67 by tumor-infiltrating T cells, and spleen and lymph node T cells (n=3/group). Assays were run in triplicate and repeated at least 3 times. Data were expressed as the mean \pm SD of 3 independent experiments (ns=not significant). Statistical analysis: Comparisons between two groups utilized a two-tailed Student's t-test for normally distributed data.

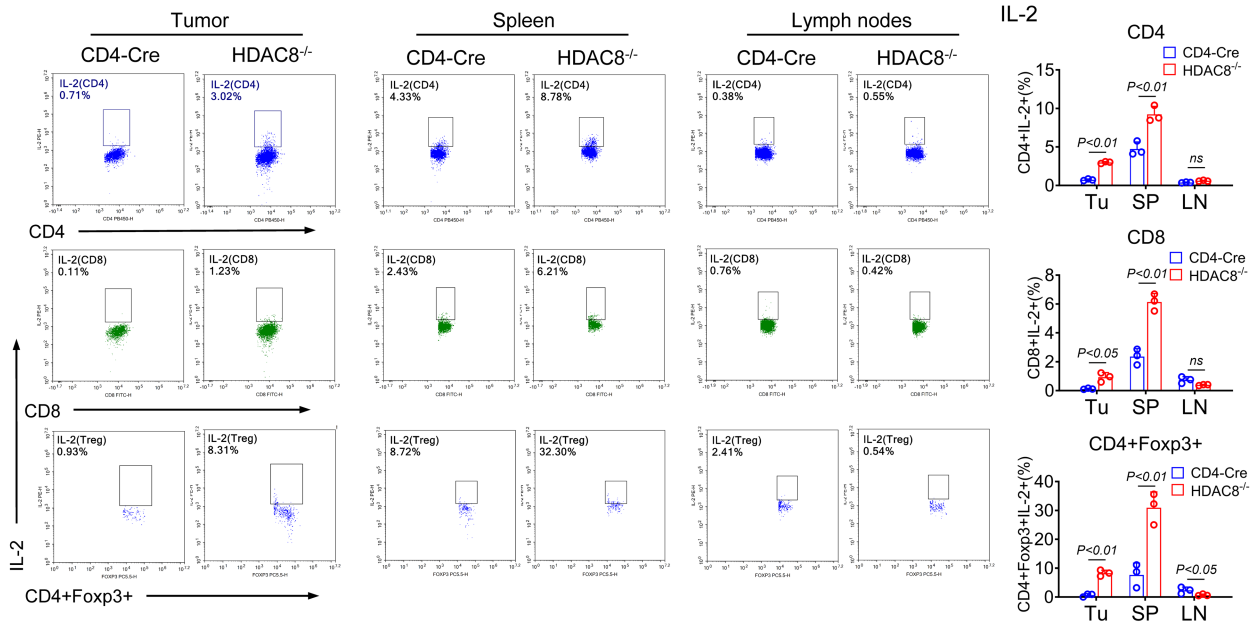


Fig. S10: Conditional knockout of HDAC8 promoted IL-2 production by CD4+, CD8+ T cells and Treg cells (n=3/group). Assays were run in triplicate and repeated at least 3 times. Data were expressed as the mean \pm SD of 3 independent experiments (ns=not significant). Statistical analysis: Comparisons between two groups utilized a two-tailed Student's t-test for normally distributed data.

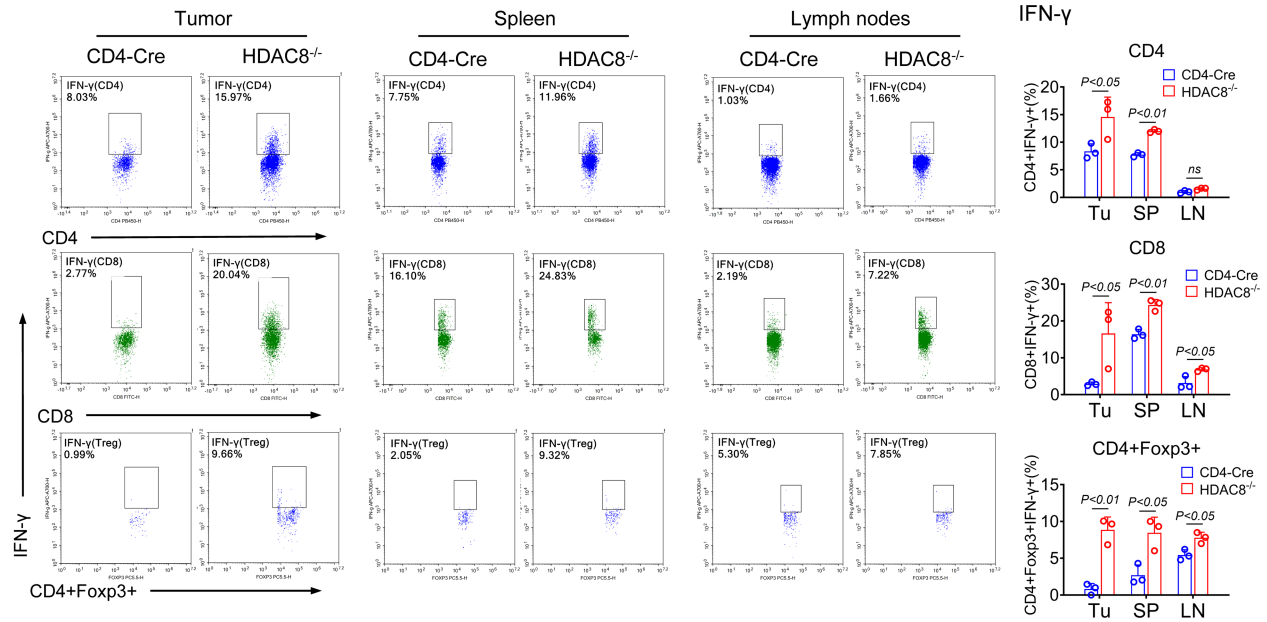


Fig. S11: Conditional knockout of HDAC8 promoted IFN- γ production by CD4⁺, CD8⁺ T cells and Treg cells (n=3/group). Assays were run in triplicate and repeated at least 3 times. Data were expressed as the mean \pm SD of 3 independent experiments (ns=not significant). Statistical analysis: Comparisons between two groups utilized a two-tailed Student's t-test for normally distributed data.

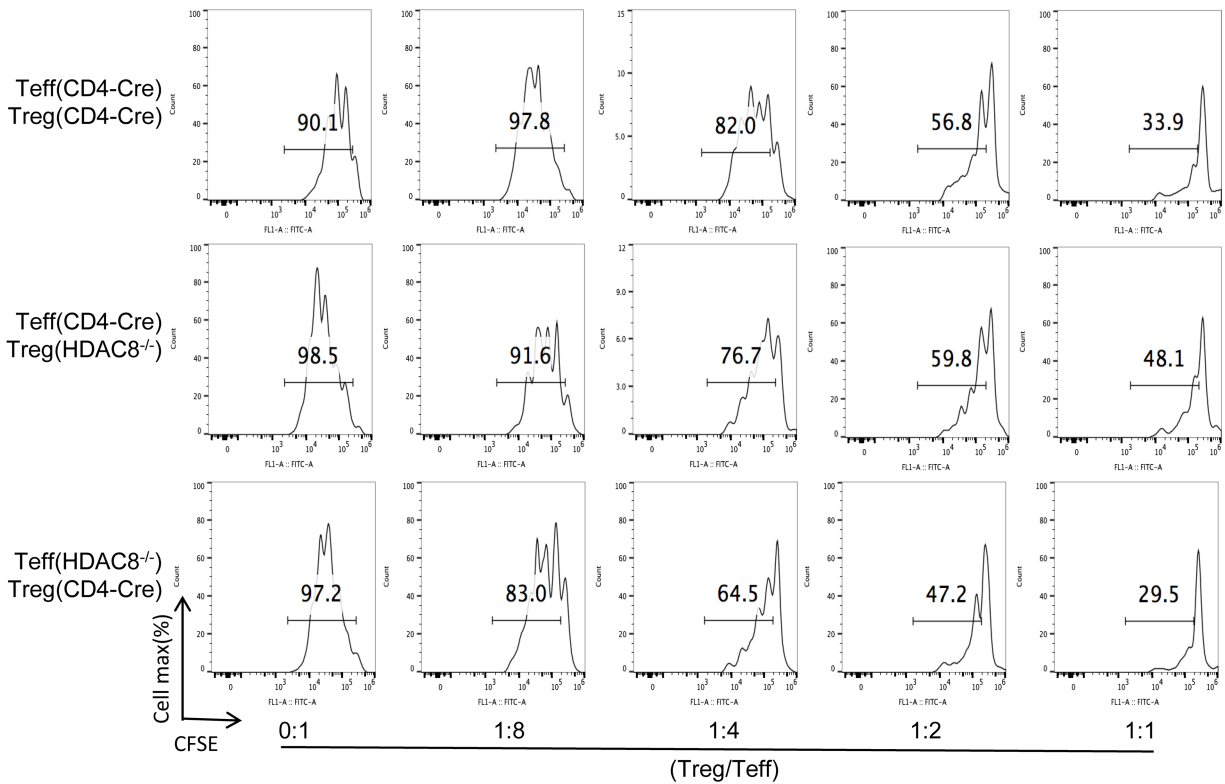


Fig. S12: Treg suppression assays using pooled Treg and Teff cells from lymph nodes and spleens of mice (CD4-Cre and HDAC8^{-/-}), as indicated.

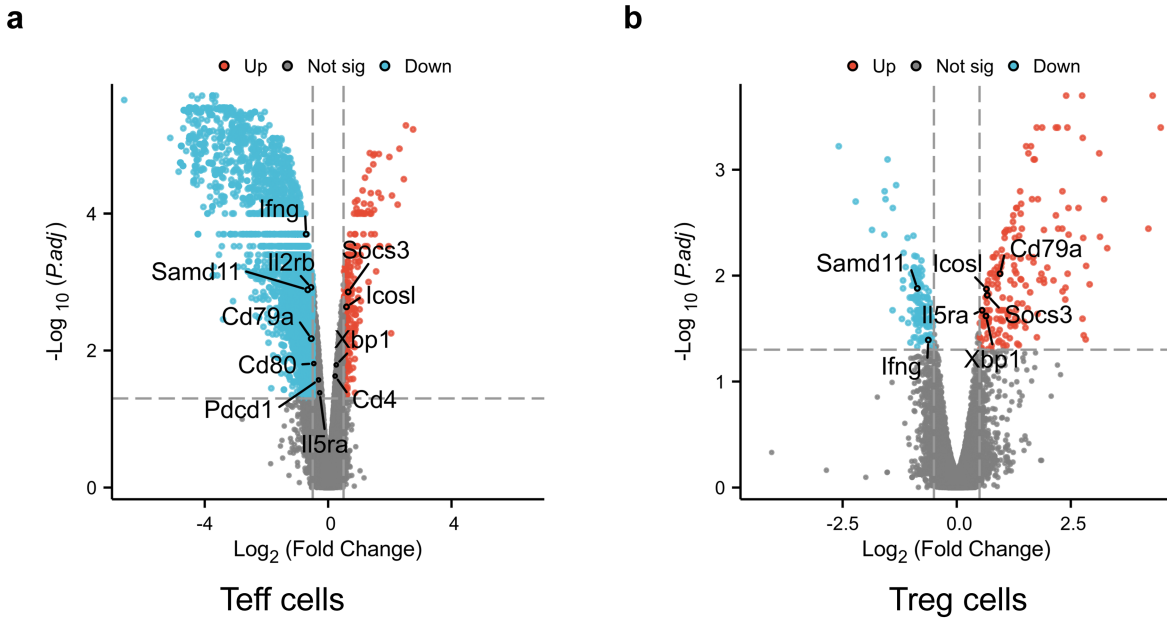


Fig. S14: Volcano plot showing statistical significance (P_{adj}) vs. fold change for genes differentially expressed as a result of HDAC8 deletion in Teff cells (a) and Foxp3⁺ Tregs (b).

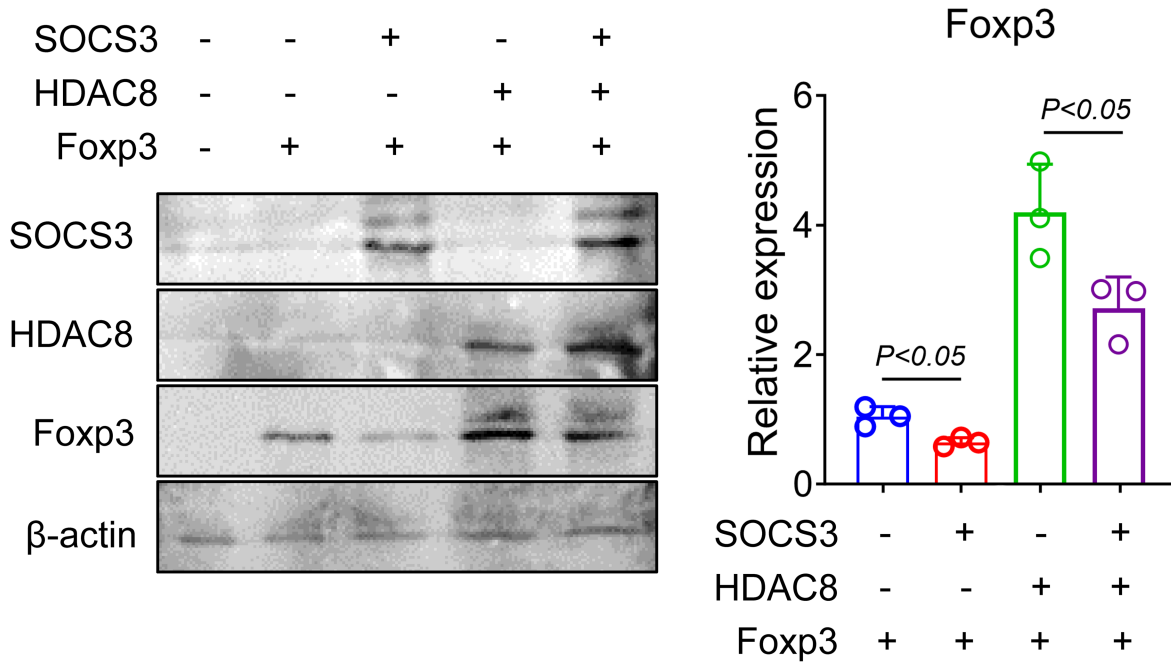


Fig. S15: Co-transfection analysis of HDAC8, Socs3 and Foxp3 in 293T cells ($n=3/\text{group}$). Assays were run in triplicate and repeated at least 3 times. Data were expressed as the mean \pm SD of 3 independent experiments. Statistical analysis: Comparisons between two groups utilized a two-tailed Student's t-test for normally distributed data.

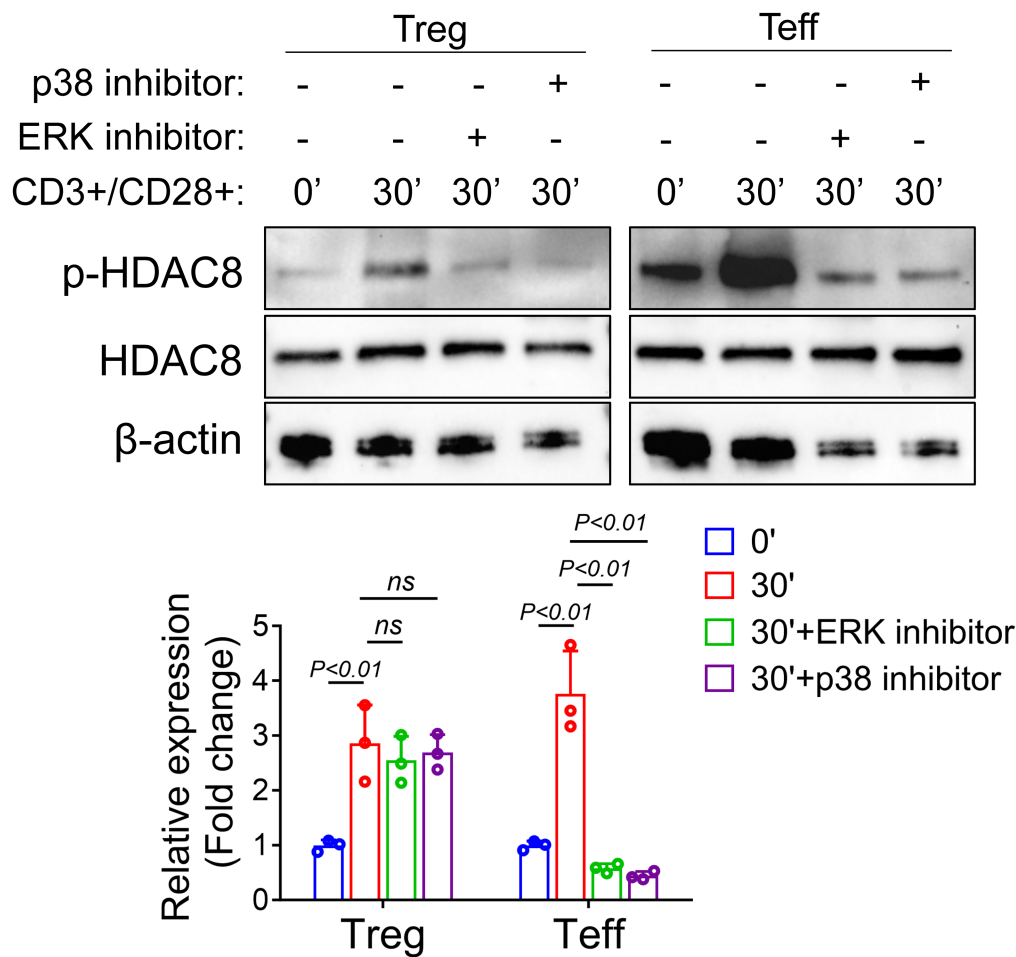


Fig. S16: Western blot was used to analysis the expression of p-HDAC8 in Teff and Treg cells stimulated with CD3/CD28 mAbs. Data were expressed as the mean \pm SD of 3 independent experiments (ns=not significant). Statistical analysis: Comparisons between two groups utilized a two-tailed Student's t-test for normally distributed data. For multiple comparisons, we used the two-way ANOVA method for statistical analysis.

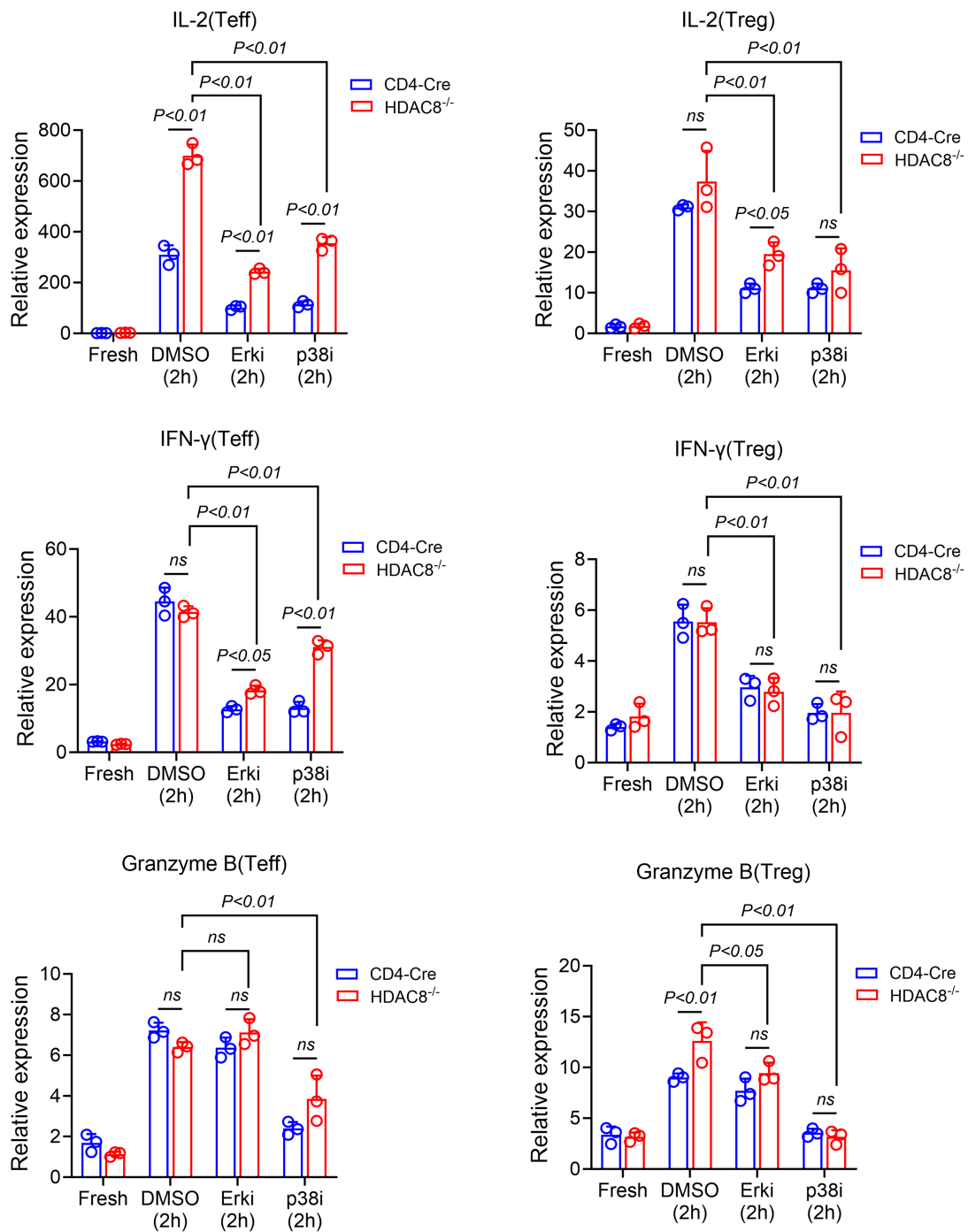


Fig. S17: The expression of IL-2, IFN- γ and Granzyme B in Teff/Treg cells stimulated with CD3/CD28 mAbs and treated with ERK/p38 inhibitor was detected by PCR. Data were expressed as the mean \pm SD of 3 independent experiments (ns=not significant). Statistical analysis: Comparisons between two groups utilized a two-tailed Student's t-test for normally distributed data. For multiple comparisons, we used the two-way ANOVA method for statistical analysis.

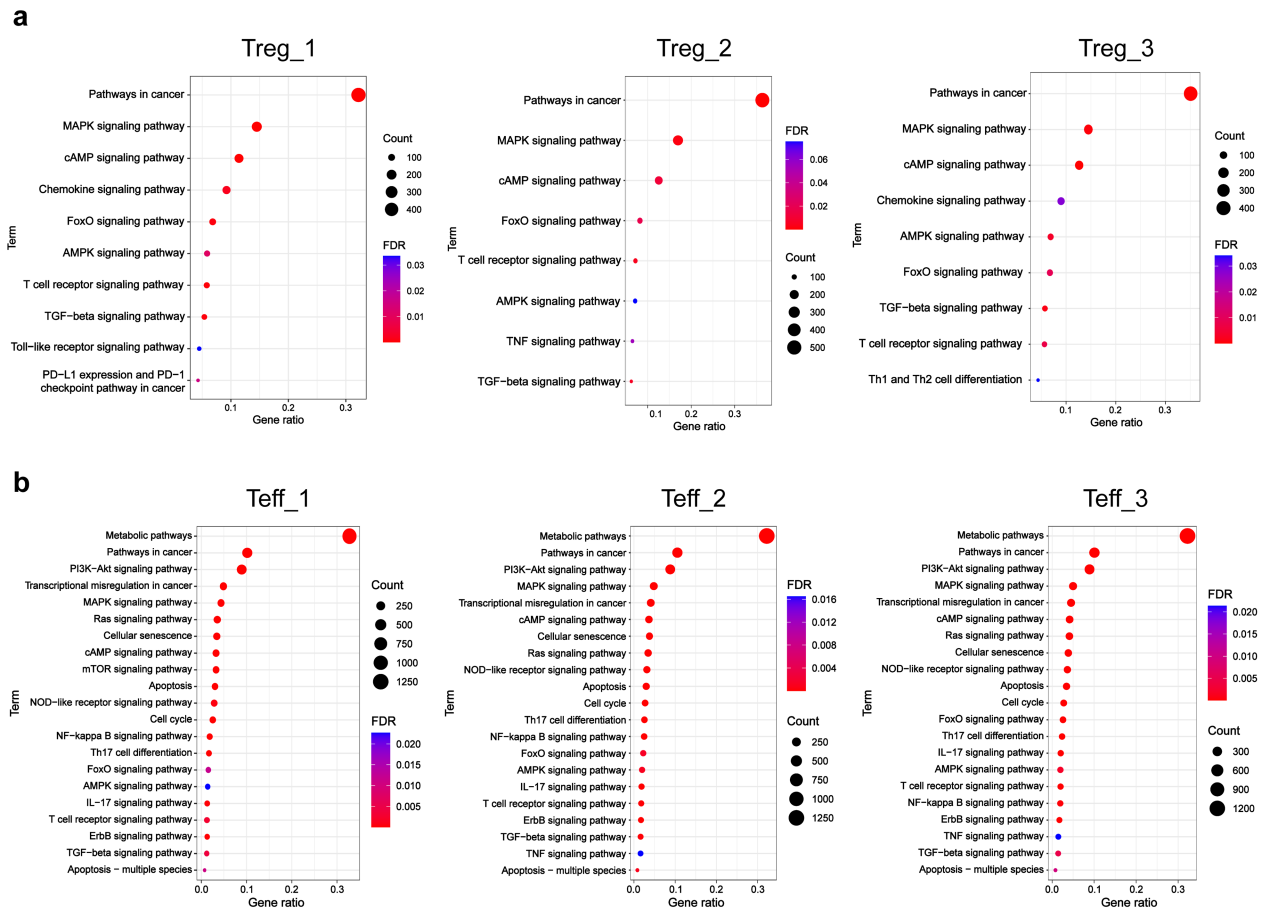
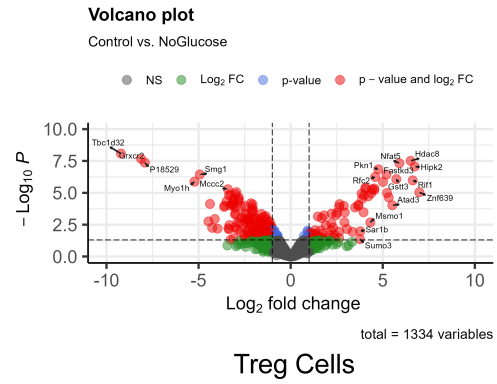
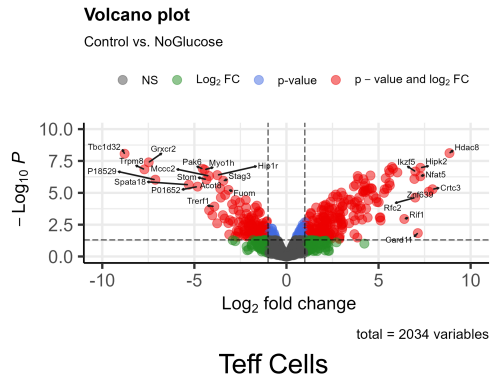


Fig. S18: HDAC8 ChIP-seq analysis in Treg (a) and Teff (b) cells (KEGG enrichment analysis).

a



b

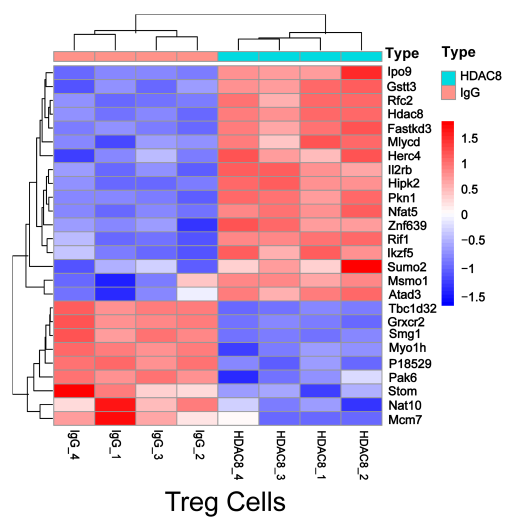
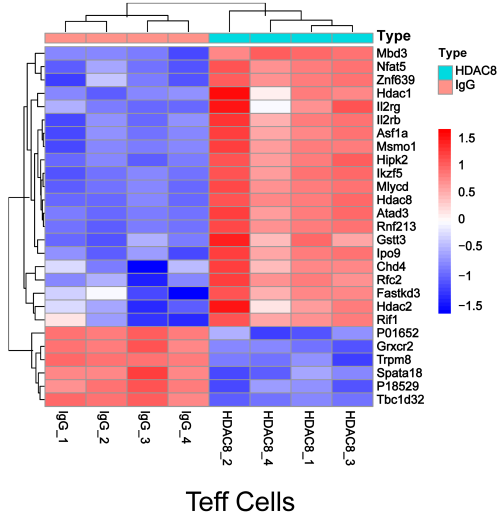
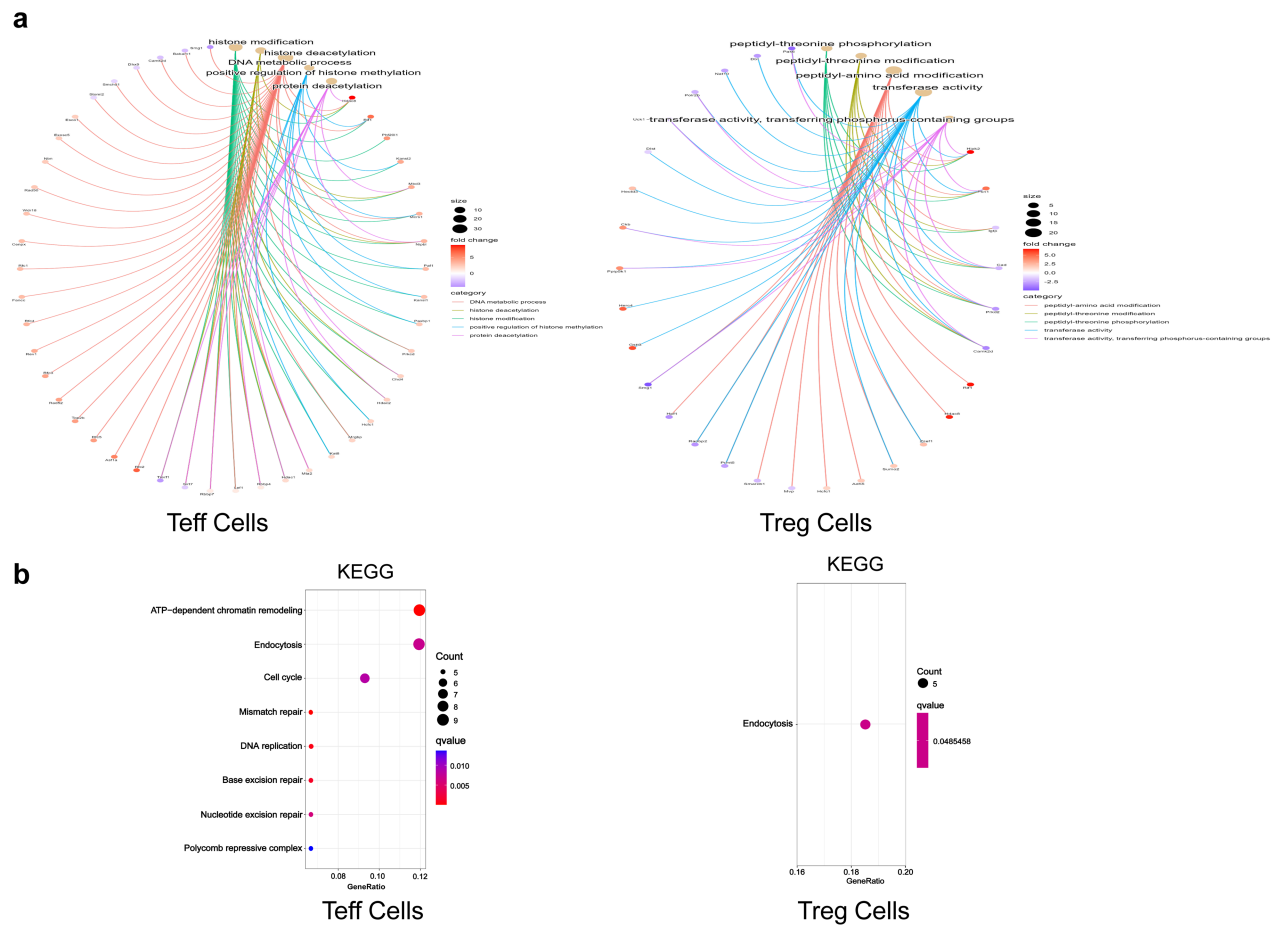


Fig. S19: HDAC8 mass spectrometry analysis in Treg and Teff cells. (a) Volcanic dot plot of HDAC8 mass spectrometry analysis in Treg and Teff cells. (b) Heat map of HDAC8 mass spectrometry analysis in Treg and Teff cells.



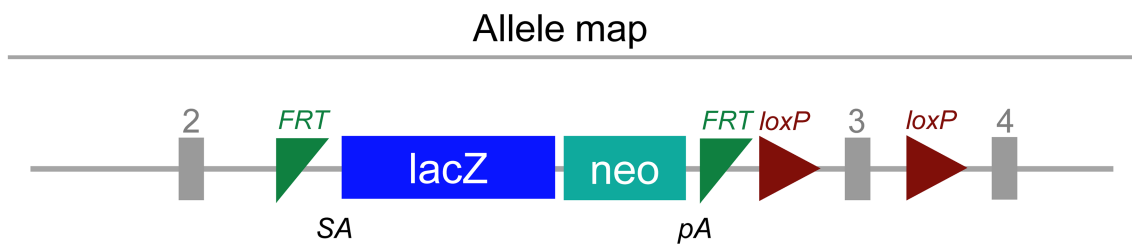
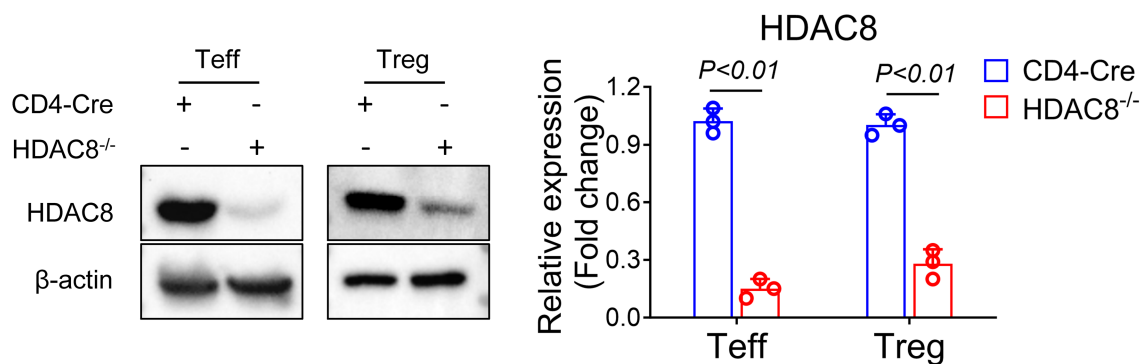
a**b**

Fig. S21: (a) Allele map of HDAC8^{fl/fl} mice. (b) Western blot analysis was used to detect the expression of HDAC8 in Teff and Treg cells. Assays were run in triplicate and repeated at least 3 times. The results of a representative experiment are shown. Data were expressed as the mean \pm SD of three independent experiments. Statistical analysis: Comparisons between two groups utilized a two-tailed Student's t-test for normally distributed data.

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Table S1: Methylation site and relative position of Foxp3 in Foxp3+ Treg and Effector T Cells

Methylation site	CPG Position	Location	CD4-Cre (Teff)	DHAC8-/- (Teff)	CD4-Cre (Treg)	DHAC8-/- (Treg)
24WXX2021-FoxP3-18_CpG_1	79	H_mass	NA	NA	NA	NA
24WXX2021-FoxP3-18_CpG_2	149	SN1	0.93	1	0.22	0.19
24WXX2021-FoxP3-18_CpG_3	211	SN3	1	0.71	0	0.13
24WXX2021-FoxP3-18_CpG_4.5	219:223	NA	0.96	0.98	0.22	0.25
24WXX2021-FoxP3-18_CpG_6	242	SN3	1	1	0.57	0.57
24WXX2021-FoxP3-18_CpG_7.8	291:296	NA	0.92	0.96	0.23	0.23
24WXX2021-FoxP3-18_CpG_9	323	SN1	1	1	0.06	0
24WXX2021-FoxP3-18_CpG_10	357	SN1	1	1	NA	NA
24WXX2021-FoxP3-18_CpG_11	373	SN1	0.86	0.9	0.5	0.64
24WXX2021-FoxP3-18_CpG_12	409	L_mass SN4	NA	NA	NA	NA

Table S2: The differentially expressed genes in Foxp3+ Treg cells after deletion of HDAC8

ID	HDAC8-KO Avg (log2)	CD4-Cre Avg (log2)	Fold Change (HDAC8-KO vs CD4-Cre) Tregs	P-val	FDR P-val	Gene Symbol
TC0900001592.mm.1	11.22	11.9	-1.6	0.0001	0.0293	Ccr8
TC0700002007.mm.1	8.12	6.21	3.76	2.59E-06	0.0037	Cd16311
TC1600000662.mm.1	9.29	9.98	-1.61	6.05E-05	0.0212	Cd200r1
TC0300000693.mm.1	5.64	6.57	-1.9	6.18E-06	0.0065	Cd51
TC0700000402.mm.1	10.24	9.29	1.93	1.46E-05	0.0096	Cd79a
TC1600001744.mm.1	10.34	9.89	1.37	0.0002	0.0431	Cep97
TC0X00001934.mm.1	7.76	8.33	-1.49	4.59E-05	0.0181	Cfp
TC0300001704.mm.1	9.3	8.85	1.37	0.0002	0.0384	Cpa3
TC0100003856.mm.1	5.98	6.49	-1.42	0.0003	0.0489	Cr2
TC1800000625.mm.1	6.11	7.19	-2.11	3.73E-06	0.0044	Csflr
TC0500000850.mm.1	6.14	6.75	-1.53	0.0001	0.0255	Cxcl2
TC09000002171.mm.1	11.12	10.24	1.85	1.41E-05	0.0096	Cxcr5
TC0500001894.mm.1	8.87	9.41	-1.45	0.0002	0.0441	Cyp51
TC0X00002834.mm.1	7.27	6.55	1.65	7.14E-05	0.0212	Cysltrl
TC1400000975.mm.1	10.04	9.04	1.99	6.72E-06	0.0067	Entpd4
TC1900001095.mm.1	7.28	6.62	1.58	6.93E-05	0.0212	Fads2
TC0X00001789.mm.1	8.6	8.11	1.4	0.0002	0.035	Gata1
TC0300001447.mm.1	13.12	12.5	1.53	8.51E-05	0.0239	Gbp2
TC1400001012.mm.1	5.51	6.41	-1.86	1.41E-05	0.0096	Gfra2
TC1700000625.mm.1	9.34	9.95	-1.53	2.98E-05	0.0141	H2-Ob
TC1300000262.mm.1	8.05	6.96	2.13	0.0003	0.0457	Hist1hla
TC0800000845.mm.1	6.9	8.08	-2.26	2.67E-05	0.0132	Hmox1
TC1000000778.mm.1	10.79	10.14	1.57	2.77E-05	0.0134	Icos1
TC1000001452.mm.1	9.55	10.17	-1.54	0.0002	0.0405	Ifng
TC1200002538.mm.1	8.17	5.86	4.97	2.24E-06	0.0036	Ighe
TC0100000300.mm.1	9.16	9.92	-1.69	0.0002	0.0391	Il18rap
TC0200004602.mm.1	5.59	6.4	-1.75	3.22E-05	0.015	Il1b
TC0100000295.mm.1	7.82	6.81	2.02	0.0001	0.0268	Il1r1
TC0600002425.mm.1	9.31	8.43	1.84	1.66E-05	0.0105	Il23r
TC0600002877.mm.1	6.76	6.2	1.47	7.21E-05	0.0212	Il5ra
TC0800001599.mm.1	13.14	13.78	-1.56	3.79E-05	0.0161	Itgbl
TC05000002712.mm.1	15.9	14.92	1.96	0.0001	0.0266	Jchain
TC0600003062.mm.1	10.55	11.47	-1.9	1.04E-05	0.0084	Klrg1
TC0600003246.mm.1	8.28	9.09	-1.75	0.0001	0.0255	Klri1
TC0600003247.mm.1	7.85	8.5	-1.58	0.0001	0.0255	Klri2
TC0400001697.mm.1	4.92	5.87	-1.92	2.32E-05	0.0121	LOC100862132
TC1000002929.mm.1	6.78	7.98	-2.3	0.0001	0.0256	Lyz2
TC0200001935.mm.1	5.91	6.61	-1.63	7.87E-05	0.0226	Mertk
TC0800000952.mm.1	8.78	8.23	1.46	0.0003	0.048	Mir27a
TC0600002009.mm.1	9.16	8.49	1.6	0.0002	0.035	Mir29a
TC06000003219.mm.1	8.37	7.42	1.93	1.28E-05	0.0093	Mir7649
TC0200000245.mm.1	6.04	6.77	-1.67	6.53E-05	0.0212	Mrc1
TC0800001095.mm.1	9.89	9	1.86	2.18E-05	0.0119	Mt1
TC1800001176.mm.1	11.19	9.87	2.49	1.15E-06	0.0023	Mzb1
TC0100002743.mm.1	8.41	7.42	1.98	8.53E-06	0.0076	Nmur1
TC0400002139.mm.1	9.02	10.08	-2.09	0.0001	0.0279	Penk
TC06000003329.mm.1	8	8.68	-1.6	0.0002	0.0366	Plbd1
TC1900000472.mm.1	9.6	10.04	-1.36	0.0003	0.0464	Pten
TC0100002413.mm.1	7.68	8.36	-1.6	2.64E-05	0.0131	Raph1
TC0300000864.mm.1	8.54	7.57	1.95	7.01E-05	0.0212	Rorc
TC04000004175.mm.1	6.06	6.93	-1.82	2.71E-05	0.0132	Samd11
TC03000002465.mm.1	9.86	9.15	1.64	0.0001	0.0255	Scnml
TC0200001959.mm.1	7.1	7.81	-1.65	3.53E-05	0.0159	Sirpa
TC1600001582.mm.1	9.04	8.35	1.61	1.90E-05	0.0111	Slc15a2
TC0100002285.mm.1	6.17	6.99	-1.77	7.69E-05	0.0223	Slc40a1
TC02000005112.mm.1	8.05	7.13	1.89	1.18E-05	0.009	Slpi; Mir7678
TC1500002177.mm.1	9.04	9.63	-1.51	0.0001	0.0279	Snora34; Mir1291
TC1100001783.mm.1	14.36	15.13	-1.71	2.47E-05	0.0125	Snord104
TSUnmapped00000178.	13.63	14.18	-1.46	0.0002	0.0385	Snord14e
TC1100004150.mm.1	8.65	7.98	1.59	3.33E-05	0.0153	Socs3
TC1000002647.mm.1	5.88	7.39	-2.86	2.01E-07	0.0008	Spic
TC02000005164.mm.1	7.74	8.32	-1.5	0.0002	0.0391	Sulf2
TC1300000144.mm.1	14.81	13.76	2.07	6.90E-05	0.0212	Tcrg-C3
TC1300000145.mm.1	11.97	12.73	-1.69	1.14E-05	0.0089	Tcrg-C4; Trgj4

TC1300000138. mm. 1	4.69	5.67	-1.98	3.85E-05	0.0161	Tcrg-V7
TC0300000889. mm. 1	6.13	7.01	-1.84	6.37E-06	0.0066	Tmod4
TC1600000137. mm. 1	9.13	8.13	2.01	3.78E-05	0.0161	Tnfrsf17
TC1100003694. mm. 1	6.33	5.8	1.45	0.0002	0.0417	Tns4
TC0100002038. mm. 1	12	11.12	1.85	9.82E-06	0.0083	Tram2
TC1400000632. mm. 1	11.6	12.41	-1.75	0.0001	0.0255	Trav11d
TC1400002800. mm. 1	11.43	11.9	-1.38	0.0003	0.048	Trav9d-2
TC1400000644. mm. 1	10.5	10.98	-1.4	0.0002	0.0359	Trav9d-3
TC1400000715. mm. 1	8.7	7.41	2.46	7.19E-05	0.0212	Trdv4
TC1300002762. mm. 1	14.57	13.27	2.47	1.10E-06	0.0023	Trgj1; Tcrg-C1
TC1300001835. mm. 1	13.09	12.22	1.83	5.73E-06	0.0062	Txndc5
TC0300002802. mm. 1	7.33	8.27	-1.92	1.05E-05	0.0084	Vcam1
TC1100000072. mm. 1	13.36	12.72	1.56	8.60E-05	0.024	Xbp1
TC0X00000676. mm. 1	6.77	7.62	-1.8	1.16E-05	0.0089	Xlr3b
TC0X00000723. mm. 1	6.35	7	-1.57	0.0001	0.0304	Xlr3d-ps
TC1600001838. mm. 1	10.59	11.21	-1.53	0.0001	0.0304	Zfp654

Table S3: The differentially expressed genes in effector T Cells after deletion of HDAC8

ID	HDAC8-KO Avg (log2)	CD4-Cre Avg (log2)	Fold Change (HDAC8-KO vs CD4-Cre) Teff	P-val	FDR P-val	Gene Symbol
TC1100000251. mm. 1	6.66	7.06	-1.32	0.0001	0.0032	Bcl11a
TC0100002894. mm. 1	12.41	12.65	-1.19	0.0023	0.029	Bcl2
TC0200001927. mm. 1	10.87	11.16	-1.22	0.0026	0.0314	Bcl2l11
TC0900003324. mm. 1	10.14	9.77	1.29	0.0018	0.0241	Bcl9l
TC0300003235. mm. 1	5.8	6.08	-1.22	0.0041	0.0443	Bglap3
TC0600001203. mm. 1	10.85	11.11	-1.19	0.0024	0.0297	Bhlhe40
TC0600003428. mm. 1	7.06	7.41	-1.27	0.003	0.0346	Bhlhe41
TC1300002437. mm. 1	5.36	5.65	-1.23	0.0018	0.0241	Bhmt2
TC1400002219. mm. 1	8.01	8.51	-1.41	6.60E-05	0.0017	Blk
TC1900001498. mm. 1	7.79	8.2	-1.33	0.0005	0.0081	Blnk
TC1700000420. mm. 1	7.86	7.67	1.14	0.0046	0.0478	Bnip1
TC0X00002994. mm. 1	7.02	7.39	-1.3	0.001	0.0147	Btk
TC0400002505. mm. 1	5.12	5.87	-1.68	3.42E-05	0.001	Ccl19
TC4_JH584293_random	5.52	6.12	-1.51	0.0001	0.0025	Ccl19
TC4_JH584294_random	5.96	6.45	-1.41	0.0003	0.0063	Ccl19; Gm2023
TC0400000395. mm. 1	5.99	6.64	-1.57	1.26E-05	0.0005	Ccl19; Gm2457
TC0400000412. mm. 1	5.93	6.8	-1.82	1.05E-05	0.0004	Ccl19; Gm2564
TC0400000389. mm. 1	5.8	6.34	-1.45	0.0002	0.0035	Ccl19-ps1
TC1100003396. mm. 1	14.67	15.32	-1.57	3.79E-05	0.0011	Ccl5
TC0700004610. mm. 1	6.62	6.86	-1.18	0.0022	0.0281	Cend1; Mir3962
TC0900003169. mm. 1	8.81	8.29	1.44	0.0032	0.0365	Ccr4
TC1100003696. mm. 1	15.77	15.32	1.36	0.0007	0.0109	Ccr7
TC0900001670. mm. 1	7.8	8.27	-1.38	7.80E-05	0.002	Ccr9
TC0300003241. mm. 1	8.78	9.61	-1.78	2.96E-05	0.0009	Cd160
TC1300001155. mm. 1	9.18	9.95	-1.71	3.69E-06	0.0002	Cd180
TC0700004277. mm. 1	8.31	9.26	-1.93	1.27E-05	0.0005	Cd19
TC1600000662. mm. 1	8.43	9.14	-1.64	3.87E-05	0.0011	Cd200r1
TC0800001625. mm. 1	6.29	7.08	-1.73	0.0003	0.0064	Cd209c
TC0700002779. mm. 1	7.7	7.93	-1.18	0.0045	0.0475	Cd22
TC1800000909. mm. 1	12.2	12.46	-1.2	0.0016	0.0217	Cd226
TC1000000402. mm. 1	10.26	10.78	-1.43	0.0036	0.0402	Cd24a
TC0600003140. mm. 1	14.41	14.05	1.28	0.0005	0.0084	Cd27; Mir8113
TC1100004052. mm. 1	6.48	6.78	-1.23	0.0033	0.0372	Cd300c
TC1100004060. mm. 1	7.01	7.39	-1.31	0.0008	0.0122	Cd3001f
TC0700002950. mm. 1	6.63	6.87	-1.18	0.0039	0.0422	Cd33
TC0500000468. mm. 1	8.58	9.5	-1.89	4.41E-06	0.0002	Cd38
TC0600003124. mm. 1	16.92	16.69	1.17	0.0018	0.0236	Cd4
TC0200002544. mm. 1	6.24	6.49	-1.18	0.0047	0.0487	Cd40
TC0X00000533. mm. 1	12.91	12.49	1.34	0.0001	0.0032	Cd401g
TC1900001113. mm. 1	15.89	15.53	1.29	0.0003	0.0057	Cd5
TC0100003037. mm. 1	13.43	13.16	1.21	0.0014	0.0196	Cd55
TC0200001551. mm. 1	6.08	6.5	-1.34	0.0002	0.0036	Cd59b
TC1100004240. mm. 1	10.46	11.37	-1.88	3.96E-05	0.0012	Cd7
TC0400002523. mm. 1	9.15	9.69	-1.45	2.28E-05	0.0007	Cd72
TC1800000617. mm. 1	15.2	15.95	-1.68	7.28E-06	0.0003	Cd74; Mir5107
TC0700000402. mm. 1	8.82	9.37	-1.46	0.0004	0.0067	Cd79a
TC1100003920. mm. 1	9.64	10.23	-1.51	5.11E-05	0.0014	Cd79b
TC1600000553. mm. 1	7.28	7.75	-1.38	0.001	0.0155	Cd80
TSUnmapped00000047.	7.28	7.93	-1.58	0.0003	0.0053	Cd83
TC0600003148. mm. 1	9.89	9.6	1.22	0.0012	0.0173	Cd9
TC1100003037. mm. 1	14.04	13.71	1.26	0.0004	0.008	Chd3
TC0300002684. mm. 1	5.18	5.65	-1.39	0.0005	0.0087	Chil3
TC0300002685. mm. 1	4.84	5.16	-1.25	0.0035	0.0391	Chil4
TC0200001441. mm. 1	5.67	6.2	-1.44	0.003	0.0346	Chst1
TC0700000991. mm. 1	11.82	12.49	-1.59	1.56E-05	0.0006	Chsy1
TC1600000116. mm. 1	6.84	7.32	-1.4	0.0006	0.0102	Ciita
TC0900001365. mm. 1	7.6	8.01	-1.33	0.0008	0.0134	Cish
TC0300003080. mm. 1	4.99	5.25	-1.19	0.0042	0.0447	C1ca3b
TC1400001288. mm. 1	7.39	6.84	1.47	0.0001	0.003	Cldn10
TC0600001521. mm. 1	12.06	12.31	-1.19	0.0031	0.0355	Clec2i
TC0600001401. mm. 1	5.59	5.88	-1.22	0.0045	0.0473	Clec4a2
TC0600001403. mm. 1	5.75	6.22	-1.39	0.0003	0.0064	Clec4a
TC0600003537. mm. 1	6.66	7.27	-1.53	0.0002	0.0038	Clec9a
TC0500003238. mm. 1	11.62	11.39	1.17	0.0039	0.0429	Clip1
TC1400001331. mm. 1	8.84	9.19	-1.27	0.0013	0.0189	Clybl
TC0400002603. mm. 1	8.62	9.04	-1.34	0.0002	0.0034	Coro2a
TC0100003029. mm. 1	13.51	13.9	-1.31	0.0017	0.0228	Cxcr4
TC0900001672. mm. 1	8.67	9.3	-1.55	0.0002	0.0048	Cxcr6
TC0900001416. mm. 1	10.81	10.47	1.27	0.0022	0.0281	Dalrd3
TC0200000894. mm. 1	12.5	11.38	2.17	5.51E-07	4.61E-05	Dapl1
TC0800002569. mm. 1	10.3	10.03	1.2	0.0018	0.024	Dcaf15
TC1400000304. mm. 1	10.49	10.28	1.16	0.0037	0.041	Dcpla

TC1000002224. mm. 1	11.85	12.22	-1.3	0.0037	0.0406	Ddit4
TC0800000211. mm. 1	5.41	6.28	-1.83	4.90E-06	0.0002	Defa21
TC0800000220. mm. 1	5.5	6.31	-1.76	4.74E-05	0.0013	Defa22
TC1000003161. mm. 1	17.57	17.32	1.19	0.0015	0.0201	Dgka
TC0800002904. mm. 1	10.01	9.74	1.21	0.0015	0.0206	Dhx38
TC0X00000735. mm. 1	11.01	11.25	-1.19	0.0028	0.0332	Dkcl
TC1400001432. mm. 1	7.27	8.15	-1.83	0.0001	0.0029	Dnasel13
TC1900001547. mm. 1	9.29	9.02	1.21	0.0047	0.0486	Dnmbp
TC0300001245. mm. 1	10.43	10.14	1.22	0.0008	0.0132	Dnttip2
TC1300002062. mm. 1	7.71	8.15	-1.36	0.0003	0.0057	Dok3
TC1600002182. mm. 1	11.01	10.78	1.17	0.0028	0.0336	Donson
TC0900002720. mm. 1	6.51	6.87	-1.28	0.0014	0.019	Dppa5a
TC1700001067. mm. 1	5.08	4.54	1.45	0.0018	0.0236	Dreh
TC0X00001888. mm. 1	17.43	17.83	-1.32	0.0005	0.0095	Drr1
TC0100002921. mm. 1	7.83	7.5	1.26	0.0039	0.0429	Dse1
TC0600002629. mm. 1	13.35	13.07	1.21	0.0009	0.0139	Duspl1
TC0200001913. mm. 1	12.61	12.91	-1.23	0.0024	0.0296	Dusp2
TC1000002199. mm. 1	5.06	5.79	-1.66	5.88E-05	0.0016	Dux
TC1400001872. mm. 1	5.41	5.81	-1.31	0.0005	0.0083	Ear10
TC1400000459. mm. 1	5.19	5.61	-1.33	0.0003	0.0057	Ear12; Ear2; Ear3
TC0700000787. mm. 1	5.53	5.92	-1.31	0.0005	0.0088	Egfbp2; Klk1b26
TC1000000934. mm. 1	6.85	6.4	1.36	0.0016	0.0213	Eid3
TC1200000829. mm. 1	9.45	9.18	1.2	0.0013	0.0179	Eif2b2
TC0600001606. mm. 1	8.95	8	1.92	7.91E-06	0.0003	Emp1
TC0200005472. mm. 1	6.82	7.39	-1.48	9.10E-05	0.0022	Eng
TC1400000975. mm. 1	10.15	9.19	1.95	2.04E-06	0.0001	Entpd4
TC1400000980. mm. 1	10.58	9.66	1.89	1.24E-06	8.45E-05	Entpd4; Gm21685
TC1700001299. mm. 1	8.14	7.47	1.59	1.05E-05	0.0004	Epas1
TC0600000444. mm. 1	7.95	8.23	-1.21	0.0029	0.0339	Ephb6
TC0700000033. mm. 1	8.33	7.91	1.34	0.0007	0.0109	Eps811
TC1400001086. mm. 1	12.75	12.97	-1.16	0.0047	0.0489	Epst11
TC0600003020. mm. 1	8.72	8.43	1.23	0.0013	0.018	Erc1
TC0200003573. mm. 1	4.18	4.42	-1.18	0.0036	0.0399	Ermn
TC1700000815. mm. 1	5.18	5.66	-1.39	0.0047	0.0487	Esp3
TC1700002092. mm. 1	4.85	5.3	-1.36	0.0004	0.0071	Esp36
TC1300002462. mm. 1	9.13	9.57	-1.36	0.0003	0.0065	F2r
TC1300002460. mm. 1	8.76	8.17	1.5	5.80E-05	0.0016	F2r11
TC0600003456. mm. 1	8.63	10.17	-2.92	8.46E-07	6.31E-05	Far2os1; RP23-285C21.5
TC1100002077. mm. 1	6.58	7.19	-1.52	0.0004	0.0077	Fau-ps2
TC0100001166. mm. 1	9.26	10.41	-2.21	9.52E-07	6.88E-05	Fcmr
TC0300000694. mm. 1	6.73	7.06	-1.25	0.0006	0.0098	Fcr11
TC0300000695. mm. 1	7.71	8.34	-1.54	8.74E-05	0.0022	Fcr15
TC0100003520. mm. 1	7.53	7.95	-1.34	0.0067	0.0004	Fcrla
TC0300000843. mm. 1	5.62	6.38	-1.69	1.77E-05	0.0006	Flg2
TC0500003626. mm. 1	7.31	7.52	-1.16	0.0047	0.0487	Flt3
TC1200002523. mm. 1	8.69	8.29	1.32	0.0025	0.0303	Fntb
TC0600001393. mm. 1	10.2	9.93	1.21	0.0028	0.0336	Foxj2; Mir7231
TC1700000214. mm. 1	5.13	5.47	-1.26	0.0009	0.0141	Fpr2; Fpr3
TC1200000688. mm. 1	9.92	10.15	-1.17	0.0049	0.0499	Fut8
TC1300002654. mm. 1	5.76	6.37	-1.52	0.0026	0.031	Gapt
TC1700002637. mm. 1	7.4	7.81	-1.33	0.002	0.0261	Haao
TC1100000336. mm. 1	6.27	7.43	-2.24	8.49E-06	0.0003	Hba-a2; Hba-a1
TC0700003909. mm. 1	6.39	6.93	-1.46	0.0008	0.0133	Hbb-bs; Hbb-b1
TC0700003908. mm. 1	6.4	7.17	-1.7	1.13E-05	0.0004	Hbb-bt; Hbb-b2; Hbb-b1
TC0500003243. mm. 1	6.11	6.76	-1.57	0.0038	0.042	Hcar2
TC0200002308. mm. 1	7.05	7.46	-1.33	0.0005	0.0083	Hck
TC0X00002741. mm. 1	8.94	9.26	-1.25	0.0015	0.0207	Hdac8
TC0700003622. mm. 1	7.89	7.52	1.29	0.0017	0.0231	Hdgfrp3
TC1100003395. mm. 1	8.49	8.87	-1.31	0.0007	0.0118	Heatr9
TC1300001353. mm. 1	10.57	10.87	-1.23	0.0044	0.0468	Hmgcs1
TC1000000836. mm. 1	14.86	14.62	1.18	0.002	0.0257	Hmha1
TC0600000625. mm. 1	4.95	5.27	-1.25	0.003	0.0352	Hottip
TC0500002843. mm. 1	6.5	6.76	-1.2	0.0013	0.0179	Hpse
TC0300002553. mm. 1	5.39	5.74	-1.28	0.0006	0.0108	Hsd3b4; Gm10681
TC1700001936. mm. 1	7.12	8	-1.84	5.90E-06	0.0003	Hspala
TC1700001935. mm. 1	7.9	8.57	-1.59	0.001	0.0152	Hspalb; Hspala
TC0300002680. mm. 1	7.83	8.27	-1.36	9.97E-05	0.0024	I830077J02Rik
TC0900000184. mm. 1	8.49	8.79	-1.23	0.0007	0.012	Icam1
TC0100000490. mm. 1	12.94	12.71	1.18	0.0044	0.0464	Icos
TC1000000778. mm. 1	10.05	9.45	1.51	9.49E-05	0.0023	Icos1
TC1200001544. mm. 1	14.52	14.91	-1.31	0.0019	0.0244	Id2
TC0700003581. mm. 1	10.13	9.7	1.35	0.0001	0.0025	Idh2
TC1200002269. mm. 1	10.57	10.16	1.33	0.0015	0.0201	Ifi2712a
TC0800002403. mm. 1	11.7	12.02	-1.25	0.0005	0.0093	Ifi30
TC1900001422. mm. 1	11.77	11.1	1.6	0.0006	0.0106	Ifit1b11

TC1900001423. mm. 1	6.72	6.3	1.34	0.0004	0.008	Ifit1b12
TC1900000501. mm. 1	9.38	9	1.3	0.0036	0.04	Ifit3
TC1900000502. mm. 1	7.77	6.95	1.76	0.0005	0.0087	Ifit3b
TC1000001452. mm. 1	10.36	11.07	-1.64	4.81E-06	0.0002	Ifng
TC0400000895. mm. 1	5.86	6.28	-1.33	0.0008	0.0122	Ifnz
TC0300002122. mm. 1	11.19	10.9	1.22	0.0007	0.0113	Ifn80
TC0700001008. mm. 1	8.6	8.96	-1.28	0.001	0.0149	Igflr
TC1200002462. mm. 1	4.58	5.21	-1.55	0.0035	0.0392	Ighd5-7
TC1200002467. mm. 1	4.58	5.21	-1.55	0.0035	0.0392	Ighd6-1
TC1200002540. mm. 1	9.18	8.31	1.83	9.39E-07	6.82E-05	Ighg1
TC1200002539. mm. 1	15.78	15.08	1.63	1.11E-05	0.0004	Ighg2b
TC1200002541. mm. 1	7.44	7.88	-1.36	8.01E-05	0.002	Ighg3
TC1200002542. mm. 1	16.56	17.34	-1.71	3.14E-06	0.0002	Ighm
TC0700004207. mm. 1	8.32	8.68	-1.28	0.0021	0.0264	Igsf6
TC1100004265. mm. 1	13.31	12.96	1.27	0.0026	0.0317	Igtp
TC1800000610. mm. 1	8.81	8.08	1.66	1.15E-05	0.0004	Iigpl
TC0800001874. mm. 1	12.43	12.17	1.19	0.0029	0.0338	Ikbkb
TC0100003057. mm. 1	12.81	12.5	1.25	0.0008	0.0127	Ikbke
TC0100002534. mm. 1	9.96	10.67	-1.64	6.35E-06	0.0003	Ikzf2
TC0100001167. mm. 1	6.07	6.53	-1.37	0.0025	0.0307	Il10
TC0100000299. mm. 1	11.85	12.11	-1.2	0.0014	0.0192	Il18r1
TC0100000300. mm. 1	10.24	10.75	-1.43	6.93E-05	0.0018	Il18rap
TC0200004602. mm. 1	5.52	5.94	-1.34	0.0046	0.0478	Il1b
TC0100000297. mm. 1	10.18	9.89	1.23	0.0032	0.0363	Il1r12
TC0700001794. mm. 1	12.47	12.12	1.28	0.001	0.0146	Il21r
TC0600002425. mm. 1	6.41	5.98	1.35	0.0009	0.0135	Il23r
TC1500001833. mm. 1	14.7	15.26	-1.47	4.17E-05	0.0012	Il2rb
TC0700001793. mm. 1	14.32	14.09	1.18	0.002	0.0254	Il4ra
TC0600002877. mm. 1	6.67	6.95	-1.21	0.0038	0.0413	Il5ra
TC1300001265. mm. 1	14.7	14.25	1.37	8.91E-05	0.0022	Il6st
TC0100000222. mm. 1	11.5	11.21	1.22	0.0047	0.0489	Imp4
TC0400000982. mm. 1	10.03	9.63	1.32	0.0002	0.0043	Inad1
TC0100000946. mm. 1	9.68	9.44	1.18	0.003	0.0346	Ing5
TC0700001888. mm. 1	9.85	9.51	1.26	0.0017	0.0224	Inpp5f
TC1000001691. mm. 1	13.38	13.04	1.26	0.0008	0.0128	Ipcefl
TC1300002463. mm. 1	12.53	12.88	-1.27	0.0005	0.0086	Iqgap2
TC0700000825. mm. 1	10.02	9.81	1.16	0.0043	0.0455	Irf3
TC1300000338. mm. 1	10.39	10.12	1.2	0.0017	0.0226	Irf4
TC0700004530. mm. 1	10.74	10.5	1.18	0.0023	0.0283	Irf7
TC0800000756. mm. 1	10.91	10.64	1.2	0.0044	0.0465	Isynal
TC1500002039. mm. 1	11.32	10.8	1.43	0.0002	0.0035	Mapk11
TC1300000972. mm. 1	8.06	8.45	-1.31	0.0003	0.0054	Mef2c
TC0700001739. mm. 1	10.82	10.49	1.25	0.0016	0.0219	Mett19
TC0700001192. mm. 1	8.92	8.54	1.29	0.0046	0.048	Mex3b
TC1100000874. mm. 1	4.15	3.91	1.19	0.0021	0.0268	Mfsd6l
TC1500000666. mm. 1	9.25	9.02	1.17	0.0033	0.0377	Micall1
TC1300001941. mm. 1	10.49	10.23	1.19	0.0049	0.0499	Mirlet7d
TC0700004451. mm. 1	11.78	12.1	-1.25	0.0008	0.0127	Mki67
TC0900000046. mm. 1	5.72	6.05	-1.25	0.0034	0.0384	Mmp12
TC1700001596. mm. 1	5.99	5.63	1.28	0.0023	0.0283	Mmp25
TC1900000246. mm. 1	8.95	9.61	-1.59	1.32E-05	0.0005	Mpeg1
TC1100001353. mm. 1	9.53	9.8	-1.2	0.0019	0.0244	Mpo
TC0X00002470. mm. 1	10.35	10.01	1.27	0.0018	0.024	Mpp1
TC0700003060. mm. 1	6.02	6.53	-1.42	0.0018	0.0234	Mrgpra4
TC0700002401. mm. 1	10.99	10.71	1.21	0.0013	0.0188	Mrip-ps
TC0100000845. mm. 1	5.79	5.99	-1.15	0.0045	0.0475	Mroh2a
TC1900001128. mm. 1	8.6	9.59	-1.97	1.13E-06	7.83E-05	Ms4a1
TC1900001137. mm. 1	7.14	7.75	-1.52	0.0003	0.0052	Ms4a6d
TC1000000492. mm. 1	8.21	7.76	1.36	0.0026	0.0309	Ms1312
TC0500003618. mm. 1	8.41	7.95	1.38	0.0009	0.0142	Mtif3
TC0600002641. mm. 1	10.66	11.01	-1.27	0.0005	0.0093	Mxd1
TC1000001840. mm. 1	12.15	11.59	1.47	2.46E-05	0.0008	Myb
TC1500000453. mm. 1	10.43	10.83	-1.32	0.0002	0.004	Myc
TC0900000927. mm. 1	8.83	9.56	-1.67	5.89E-06	0.0003	Myole
TC1700000585. mm. 1	11.03	11.28	-1.19	0.0017	0.0224	Myo1f
TC1800001176. mm. 1	9.42	9.67	-1.19	0.0028	0.0328	Mzb1
TC1600001255. mm. 1	6.41	6.18	1.18	0.0025	0.0302	Mzt2
TC0500000623. mm. 1	9.63	9.95	-1.25	0.0011	0.0162	N4bp2
TC0500003685. mm. 1	10.41	10.12	1.22	0.0013	0.0183	N4bp211
TC0700000810. mm. 1	8.09	8.65	-1.47	3.85E-05	0.0011	Napsa
TC0800000694. mm. 1	7.84	7.33	1.42	0.0009	0.0143	Nat2
TC0100003129. mm. 1	7	7.29	-1.23	0.0024	0.0292	Nav1
TC0400000140. mm. 1	9.75	9.43	1.24	0.0018	0.0241	Nbn
TC0500003368. mm. 1	8.27	8.62	-1.27	0.0003	0.0061	Ncf1
TC1200001353. mm. 1	11.18	10.95	1.17	0.0033	0.0372	Ncoal

TC0200005006. mm. 1	12. 12	11. 83	1. 22	0. 0015	0. 0201	Ndrq3
TC0900000976. mm. 1	9. 04	9. 72	-1. 61	6. 77E-06	0. 0003	Nedd4
TC0100002177. mm. 1	12. 85	12. 01	1. 79	5. 92E-06	0. 0003	Neur13
TC0200003791. mm. 1	10. 2	9. 96	1. 18	0. 004	0. 0432	Nfe2l2
TC1900000689. mm. 1	9. 94	9. 66	1. 21	0. 0031	0. 0355	Nfkb2
TC1700000864. mm. 1	10. 55	10. 18	1. 29	0. 0046	0. 0485	Nfkbie
TC1600001742. mm. 1	12. 3	11. 96	1. 27	0. 0003	0. 0064	Nfkbiz
TC1300000087. mm. 1	6. 16	6. 44	-1. 21	0. 0042	0. 0454	Nid1
TC0700000759. mm. 1	13. 73	14. 23	-1. 41	8. 11E-05	0. 002	Nkg7
TC0700000350. mm. 1	5. 15	5. 41	-1. 2	0. 0025	0. 0303	Nlrp4e
TC0700004656. mm. 1	8. 74	8. 47	1. 2	0. 0036	0. 0397	Nmb
TC1300001812. mm. 1	7. 07	7. 76	-1. 61	0. 0003	0. 0055	Nrn1
TC1100000327. mm. 1	12. 49	12. 21	1. 21	0. 0012	0. 0169	Nsg2
TC0700004388. mm. 1	9. 9	9. 65	1. 19	0. 002	0. 0255	Nsmce4a
TC0400000374. mm. 1	6. 96	7. 33	-1. 29	0. 0031	0. 036	Nudt2
TC1200002053. mm. 1	10. 36	9. 84	1. 43	2. 21E-05	0. 0007	Numb
TC0900002233. mm. 1	5. 36	5. 6	-1. 18	0. 0028	0. 033	Nxpe2
TC1600001743. mm. 1	11. 76	12. 19	-1. 34	0. 001	0. 0149	Nxpe3
TC0500001349. mm. 1	9. 58	9. 27	1. 23	0. 0022	0. 028	Oas1b
TC1000000140. mm. 1	4. 65	5. 04	-1. 31	0. 0027	0. 0324	Olig3
TC0X00000949. mm. 1	4. 67	4. 89	-1. 17	0. 0029	0. 0346	Otud6a
TC0500001399. mm. 1	10. 92	11. 36	-1. 36	0. 0003	0. 0053	P2rx7
TC0300002053. mm. 1	5. 34	6. 13	-1. 73	0. 0012	0. 0168	P2ryl3
TC1000003152. mm. 1	13. 46	13. 7	-1. 18	0. 0033	0. 0379	Pa2g4
TC1900000954. mm. 1	12. 38	12. 13	1. 19	0. 0025	0. 03	Pacs1
TC0400001770. mm. 1	8. 45	8. 74	-1. 23	0. 0011	0. 0156	Padi2
TC0400002063. mm. 1	10. 04	9. 78	1. 2	0. 0024	0. 0294	Pank4
TC1500002347. mm. 1	9. 48	9. 21	1. 21	0. 0014	0. 0197	Parp10
TC0400002562. mm. 1	6. 54	6. 93	-1. 31	0. 0002	0. 004	Pax5
TC1800000359. mm. 1	5. 18	5. 52	-1. 27	0. 0004	0. 0079	Pcdhb5
TC0100002840. mm. 1	9. 85	10. 16	-1. 24	0. 0021	0. 0269	Pcdcl1
TC0800002869. mm. 1	9. 83	9. 6	1. 17	0. 0045	0. 0475	Pdf; Cog8
TC0200001047. mm. 1	12	11. 66	1. 27	0. 001	0. 0154	Pdk1
TC1100002755. mm. 1	8. 35	7. 99	1. 28	0. 0041	0. 044	Pdlim4
TC0900002347. mm. 1	11. 1	11. 49	-1. 31	0. 0003	0. 0065	Peak1
TC1100003932. mm. 1	13. 07	12. 86	1. 16	0. 0028	0. 0336	Pecam1
TC1100000205. mm. 1	14. 77	14. 47	1. 23	0. 0016	0. 0215	Pelil1
TC0300001601. mm. 1	7. 85	7. 58	1. 21	0. 0016	0. 0215	Pex2
TC1700000426. mm. 1	12. 43	12. 17	1. 2	0. 0048	0. 0496	Phf1
TC0200001396. mm. 1	11. 31	11. 02	1. 22	0. 0017	0. 023	Phf21a
TC0100000112. mm. 1	4. 07	4. 43	-1. 28	0. 0022	0. 0276	Pil5
TC1900001506. mm. 1	8. 46	8. 87	-1. 33	0. 0009	0. 0134	Pik3ap1
TC1100000009. mm. 1	10. 25	9. 99	1. 19	0. 0028	0. 0331	Pik3ip1
TC0200003051. mm. 1	14. 26	13. 99	1. 2	0. 0044	0. 0464	Pip4k2a
TC0700004632. mm. 1	7. 06	7. 75	-1. 6	0. 0002	0. 0046	Piral
TC0700000030. mm. 1	6. 31	6. 7	-1. 31	0. 0013	0. 0189	Pira6
TC0700004631. mm. 1	7. 87	8. 35	-1. 39	8. 48E-05	0. 0021	Pirb; Piral
TC1600000163. mm. 1	6. 45	7. 18	-1. 66	0. 0006	0. 0103	Pla2g10os
TC0500002840. mm. 1	7. 58	8. 16	-1. 5	2. 29E-05	0. 0008	Plac8
TC0800000286. mm. 1	7. 39	6. 77	1. 54	0. 0002	0. 005	Plat
TC0300002172. mm. 1	6. 11	6. 72	-1. 53	0. 0042	0. 0447	Platr10
TC1300000799. mm. 1	5. 26	5. 57	-1. 25	0. 0024	0. 0296	Platr2
TC0600001477. mm. 1	5. 86	6. 15	-1. 22	0. 0019	0. 0247	Platr31
TC0400002395. mm. 1	5. 62	6. 13	-1. 42	3. 81E-05	0. 0011	Platr9
TC0600003329. mm. 1	8. 89	9. 44	-1. 47	5. 90E-05	0. 0016	Plbd1
TC0800001407. mm. 1	8. 05	8. 3	-1. 19	0. 0025	0. 0308	Plcg2
TC1200001272. mm. 1	8. 43	9. 19	-1. 69	5. 75E-06	0. 0003	Pld4
TC0200005136. mm. 1	6. 85	7. 18	-1. 26	0. 001	0. 0147	Pltp
TC1000002714. mm. 1	9. 57	9. 83	-1. 2	0. 0015	0. 0202	Plxncl
TC0600002965. mm. 1	7. 62	7. 15	1. 39	0. 0004	0. 0068	Plxnd1
TC0200002026. mm. 1	6. 88	7. 35	-1. 38	0. 0018	0. 0237	Prnd; Prnp; Prn; PRND
TC0500000809. mm. 1	7. 19	7. 54	-1. 27	0. 0012	0. 0167	Pro11
TC0900001119. mm. 1	6. 75	7. 32	-1. 48	0. 0008	0. 013	Prss35
TC1800000834. mm. 1	7. 35	7. 95	-1. 51	4. 73E-05	0. 0013	Pstpip2
TC0400001593. mm. 1	5. 86	6. 24	-1. 3	0. 0032	0. 0365	Ptafr
TC0300002595. mm. 1	6. 57	6. 97	-1. 32	0. 0009	0. 0141	Ptgfrn
TC1500001690. mm. 1	6. 98	7. 21	-1. 17	0. 0031	0. 0359	Ptk2
TC0200002602. mm. 1	11. 42	11. 2	1. 17	0. 0039	0. 0426	Ptpnl
TC0200004090. mm. 1	9. 13	9. 85	-1. 65	5. 30E-05	0. 0015	Ptprj
TC0500002059. mm. 1	7. 52	7. 81	-1. 23	0. 0017	0. 0225	Pus7
TC0700002507. mm. 1	11. 16	10. 82	1. 26	0. 001	0. 0151	Pvr
TC1400000076. mm. 1	12. 14	11. 94	1. 15	0. 0048	0. 0496	Pxk
TC0100003591. mm. 1	13. 55	13. 25	1. 23	0. 001	0. 0154	Pydc4
TC1200001225. mm. 1	11. 94	11. 66	1. 22	0. 003	0. 0351	Rcor1
TSUnmapped00000010.	9. 81	9. 32	1. 4	0. 0005	0. 0092	Rcor3

TC0100003826. mm. 1	9.07	8.74	1.25	0.0009	0.0138	Rcor3
TC0300000807. mm. 1	7.3	7.99	-1.61	1.01E-05	0.0004	SI00a4
TC0700003041. mm. 1	6.17	6.61	-1.36	0.0046	0.048	Saa1
TC0800000941. mm. 1	8.12	7.75	1.29	0.0003	0.0055	Samd1
TC0400004175. mm. 1	5.52	6.18	-1.58	4.41E-05	0.0013	Samd11
TC1000000231. mm. 1	9.13	9.52	-1.3	0.002	0.0252	Samd3
TC1600001919. mm. 1	8.69	8.93	-1.18	0.0036	0.0401	Samsn1
TC0200000468. mm. 1	5.42	5.8	-1.3	0.002	0.0255	Sardhos; RP23-171K6.3
TC0100001446. mm. 1	7.42	8.09	-1.59	0.0015	0.0203	Scarna3a; Mir1843b
TC0700000610. mm. 1	8.09	8.63	-1.46	0.0033	0.0378	Scgblb19
TC0700000612. mm. 1	7.37	7.84	-1.38	0.0004	0.0079	Scgblb20; Scgblb11
TC0700000625. mm. 1	4.23	4.79	-1.48	0.0014	0.0197	Scgblb26-ps; Scgblb28-ps
TC0700000597. mm. 1	5.46	6.35	-1.85	3.30E-06	0.0002	Scgblb29
TC0700000591. mm. 1	5.78	6.51	-1.65	0.0009	0.0134	Scgblb3
TC0700000592. mm. 1	7.28	8.17	-1.86	3.55E-06	0.0002	Scgblb7
TC0700002802. mm. 1	5.36	6.06	-1.62	0.0041	0.0444	Scgb2b15; Scgb2b17
TC0700002805. mm. 1	5.36	6.06	-1.62	0.0041	0.0444	Scgb2b15; Scgb2b17
TC0700002815. mm. 1	6.47	6.84	-1.29	0.0005	0.0094	Scgb2b23-ps
TC0700002796. mm. 1	5.61	6.03	-1.34	0.0018	0.0237	Scgb2b7
TC1000000388. mm. 1	11.35	11.04	1.24	0.0019	0.025	Scml4
TC0300002465. mm. 1	9.97	9.34	1.55	9.70E-06	0.0004	Scnml
TC0600002553. mm. 1	8.39	8.08	1.24	0.0005	0.0091	Sema4f
TC1600000307. mm. 1	11.64	11.4	1.19	0.0038	0.0415	Senp2
TC1200002533. mm. 1	5.1	5.36	-1.19	0.0028	0.0335	Serpinala
TC1200002524. mm. 1	7.62	8.36	-1.68	4.30E-05	0.0012	Serpina3f
TC1200002525. mm. 1	9.69	10.52	-1.78	9.64E-06	0.0004	Serpina3g
TC1800001640. mm. 1	6.91	7.18	-1.2	0.0034	0.0383	Setbp1
TC0300001958. mm. 1	10.4	10.15	1.2	0.0023	0.0287	Setd7
TC1100004285. mm. 1	8.94	9.34	-1.32	0.0002	0.0044	Sfil
TC0200000087. mm. 1	8.15	8.45	-1.23	0.0007	0.0113	Sfmbt2
TC1000000171. mm. 1	10.1	9.79	1.24	0.0018	0.024	Sgk1
TC1500002333. mm. 1	12.71	12.39	1.25	0.0021	0.0262	Sh3bp1
TC1400001676. mm. 1	10.5	10.85	-1.27	0.0035	0.0395	Sh3bp5
TC0700000757. mm. 1	6.47	6.85	-1.3	0.0003	0.0057	Siglecg
TC0700000931. mm. 1	7.91	8.79	-1.84	1.43E-06	9.33E-05	Siglech
TC0200001959. mm. 1	7.39	7.98	-1.5	4.27E-05	0.0012	Sirpa
TC0300003225. mm. 1	5.95	6.75	-1.74	7.07E-06	0.0003	Sirpbl1a
TC0300001674. mm. 1	6.01	6.88	-1.83	5.99E-05	0.0016	Sirpbl1a; Sirpbl1b
TC0300000210. mm. 1	11.83	11.6	1.17	0.0035	0.0392	Skil
TC1800000805. mm. 1	11.04	10.69	1.27	0.0003	0.0064	Smad7
TC0300000574. mm. 1	15.4	15.14	1.2	0.0023	0.0282	Smc4
TC1700000152. mm. 1	5.45	6.01	-1.48	0.0006	0.0095	Smok2a
TC0500003714. mm. 1	6.61	7.04	-1.34	0.0008	0.0124	Smok3a
TC0500003715. mm. 1	6.54	7.08	-1.46	0.0004	0.0069	Smok3b; Smok3a
TC1100003937. mm. 1	12.16	11.87	1.22	0.0008	0.0134	Smurf2
TC0800001976. mm. 1	11.78	11.1	1.6	0.0005	0.0086	Snord13
TSUnmapped00000175.	11.91	11.05	1.82	0.0005	0.0089	Snord13
TC0700002993. mm. 1	15.42	15.7	-1.21	0.0028	0.0331	Snord35a
TC0700002991. mm. 1	11.69	12.2	-1.42	0.0007	0.0115	Snord35b
TC0300002445. mm. 1	11.34	11.07	1.21	0.0015	0.0203	Snx27
TC0900002359. mm. 1	9.27	9.04	1.18	0.0028	0.0331	Snx33
TC0200004756. mm. 1	12.49	12.81	-1.25	0.0007	0.0114	Snx5
TC1100004150. mm. 1	8.27	7.62	1.57	5.07E-05	0.0014	Socs3
TC1200000321. mm. 1	7.18	7.57	-1.32	0.0007	0.0119	Sostdc1
TC0800003095. mm. 1	6.14	5.85	1.22	0.0024	0.0295	Spata21
TC0500000072. mm. 1	6.43	7.11	-1.6	0.0002	0.004	Speer1
TC0500002115. mm. 1	5.64	6.48	-1.79	3.22E-05	0.001	Speer4a; Gm10471
TC0500002130. mm. 1	5.83	6.58	-1.68	0.0011	0.0158	Speer4b
TC0500001980. mm. 1	6.13	7.34	-2.3	2.98E-06	0.0002	Speer4c
TC0500001976. mm. 1	6.06	7.18	-2.17	2.88E-06	0.0002	Speer4c; 4930572003Rik
TC0500000108. mm. 1	5.71	6.76	-2.07	1.52E-06	9.79E-05	Speer4cos
TC0500000110. mm. 1	6.31	7.4	-2.13	2.63E-05	0.0008	Speer4d
TC0500001973. mm. 1	6.01	7.05	-2.06	0.0003	0.0055	Speer4e
TC1000000412. mm. 1	5.53	5.94	-1.33	0.0023	0.0287	Speer5-ps1
TC0500000106. mm. 1	6.04	7.46	-2.67	4.69E-05	0.0013	Speer8-ps1
TC0200001368. mm. 1	7.14	7.41	-1.2	0.0031	0.036	Spil
TC0700002967. mm. 1	6.96	7.64	-1.6	7.81E-06	0.0003	Spib
TC1000002647. mm. 1	5.36	5.92	-1.47	0.0005	0.0081	Spic
TC0X00002421. mm. 1	5.88	6.21	-1.26	0.0027	0.032	Spin2d
TC0X00002017. mm. 1	5.11	6.84	-3.31	9.97E-07	7.13E-05	Spin2e
TC0X00002034. mm. 1	5.81	6.76	-1.93	0.0028	0.0328	Spin2g
TC0X00000287. mm. 1	5.06	6.19	-2.19	0.0002	0.0046	Spin2-ps6; 4930408F14Rik
TC0700002720. mm. 1	8.94	8.56	1.3	0.0017	0.0225	Spint2
TC1100003147. mm. 1	6.37	6.6	-1.17	0.0037	0.041	Spns3
TC0600000957. mm. 1	7.15	6.92	1.18	0.0036	0.04	Spr-ps1

TC0300000821. mm. 1	5.62	6.09	-1.39	0.0005	0.0091	Sprr2a2; Sprr2a1
TC0300000822. mm. 1	6.43	6.91	-1.4	0.0005	0.009	Sprr2a3; Sprr2a1
TC0300000823. mm. 1	5.47	5.94	-1.39	0.0004	0.0067	Sprr2b
TC0200000518. mm. 1	12.88	12.64	1.18	0.0024	0.0292	Sptan1
TC0500003439. mm. 1	11.95	11.7	1.19	0.0033	0.0375	Srrt
TC0X00002922. mm. 1	4.75	5.91	-2.22	4.93E-05	0.0014	Srsx
TC0X00003385. mm. 1	4.97	5.42	-1.36	0.0006	0.0105	Ssxb1
TC0X00001802. mm. 1	5.63	6.07	-1.36	0.0003	0.0056	Ssxb2
TC1600001770. mm. 1	8.42	8.76	-1.27	0.0021	0.0269	St3ga16
TC0600003383. mm. 1	12.65	12.28	1.29	0.0004	0.0069	St8sial
TC1800000758. mm. 1	6.73	7.02	-1.22	0.0029	0.0343	Stard6
TC1100003790. mm. 1	11.99	11.73	1.2	0.0012	0.0178	Stat3
TC1600000507. mm. 1	6.05	6.54	-1.41	0.0023	0.0286	Stfa211
TC0200005164. mm. 1	8.08	8.4	-1.24	0.0008	0.0127	Sulf2
TC0700002374. mm. 1	5.42	5.69	-1.2	0.0013	0.0181	Sult2a3
TC0700002375. mm. 1	5.41	5.78	-1.3	0.0015	0.0203	Sult2a-ps3
TC1000003158. mm. 1	9.14	9.41	-1.2	0.0045	0.0474	Suox
TC1000002380. mm. 1	7.9	8.17	-1.21	0.0023	0.0291	Susd2
TC0700001626. mm. 1	8.64	8.96	-1.24	0.0044	0.0468	Swap70
TC1300000612. mm. 1	7.88	8.29	-1.33	0.0001	0.0032	Syk
TC0400003873. mm. 1	10.96	10.61	1.28	0.0043	0.0456	Szrd1
TC1700000077. mm. 1	14.65	14.35	1.23	0.0024	0.0297	Tagap
TC0600003139. mm. 1	11.58	11.3	1.22	0.0013	0.0186	Tapbp1
TC1700000118. mm. 1	6.73	7.11	-1.3	0.0043	0.0456	Tdgf1-ps2
TC0300002425. mm. 1	4.96	5.29	-1.26	0.0024	0.0294	Tdpoz1
TC0700002597. mm. 1	5.23	4.84	1.31	0.003	0.0347	Tesc1
TC1000001661. mm. 1	13.07	12.82	1.19	0.0029	0.0337	Tespa1
TC1000002269. mm. 1	8.9	9.2	-1.23	0.0034	0.0385	Tet1
TC1100003928. mm. 1	9.7	10	-1.23	0.0007	0.0113	Tex2
TC1700002481. mm. 1	10.75	10.39	1.29	0.0005	0.0094	Tgif1
TC1100002649. mm. 1	13.89	13.54	1.28	0.0021	0.0265	Tgtp2
TC1100004148. mm. 1	7.38	7.07	1.24	0.0023	0.0287	Tha1
TC0400003681. mm. 1	8.66	9.14	-1.4	0.0002	0.0046	Themis2
TC0500002480. mm. 1	10.89	10.52	1.29	0.0002	0.0041	Tlr1
TC0400003577. mm. 1	7.14	7.44	-1.23	0.0024	0.0292	Tlr12
TC0400001738. mm. 1	10.74	10.54	1.15	0.0046	0.0477	Tmco4
TC1000002992. mm. 1	7.53	7.82	-1.22	0.0047	0.0491	Tmevpg1
TCX_GL456233 random	9.9	9.49	1.33	0.0006	0.0096	Tmlhe
TC0300000889. mm. 1	6.32	7.06	-1.67	1.30E-05	0.0005	Tmod4
TC0500002678. mm. 1	4.95	5.29	-1.27	0.0003	0.0059	Tmprss11c
TC1500001939. mm. 1	7.51	7.87	-1.28	0.0005	0.0084	Tnfrsf13c
TC0400002013. mm. 1	9.18	8.75	1.35	0.0004	0.007	Tnfrsf25
TC1100002207. mm. 1	6.49	6.77	-1.22	0.0035	0.0396	Tns3
TC1100003694. mm. 1	7.11	5.91	2.29	3.04E-07	3.00E-05	Tns4
TC1500002349. mm. 1	7.61	7.38	1.17	0.0034	0.0383	Tonsl
TC0200003355. mm. 1	12.29	12.05	1.18	0.0048	0.0491	Traf1
TC0100000897. mm. 1	7.83	7.63	1.15	0.0048	0.0494	Traf3ipl
TC1500002111. mm. 1	10.91	10.66	1.18	0.0033	0.0378	Twfl
TC0700000364. mm. 1	4.99	5.64	-1.56	0.0012	0.0172	Vlrd18; Vlrd19
TC0500001880. mm. 1	5.37	6.17	-1.74	9.82E-05	0.0024	Vlrg10; Vmnlr79
TC1100000899. mm. 1	13.14	12.78	1.28	0.0005	0.0093	Vamp2
TC0900001621. mm. 1	11.31	10.97	1.26	0.0006	0.0104	Vipr1
TC1000000548. mm. 1	11.74	11.48	1.19	0.0028	0.0332	Vsir
TC1400001709. mm. 1	8.34	9	-1.59	7.92E-06	0.0003	Wdfy4
TC0300001589. mm. 1	8.53	8.9	-1.29	0.0003	0.006	Wls
TC0400002271. mm. 1	10.52	10.75	-1.18	0.0047	0.0488	Wwp1
TC1100000072. mm. 1	12.28	12.02	1.2	0.0011	0.0162	Xbp1
TC1700002526. mm. 1	9.66	10.01	-1.28	0.0003	0.0061	Xdh
TC0X00002247. mm. 1	6.91	7.21	-1.24	0.0028	0.0333	Xlr
TC0X00002418. mm. 1	5.95	6.37	-1.34	0.0012	0.0177	Xlr3a
TC0X00000676. mm. 1	6.7	7.32	-1.53	0.0044	0.0464	Xlr3b
TC0X00002424. mm. 1	6.95	7.44	-1.41	0.0031	0.0355	Xlr3c
TC0X00000723. mm. 1	6.47	7.22	-1.69	0.0003	0.0064	Xlr3d-ps
TC0700004265. mm. 1	13.63	13.37	1.2	0.0016	0.0216	Xpo6
TC1100003570. mm. 1	9.62	9.29	1.26	0.0009	0.0135	Xylt2
TC0700001816. mm. 1	11.38	11.07	1.25	0.0012	0.0178	Ypel3
TC1100002679. mm. 1	8.07	7.84	1.17	0.0032	0.037	Zfp354c
TC1100002835. mm. 1	10.02	9.72	1.23	0.0032	0.0366	Zfp39
TC1000000908. mm. 1	10.27	10.05	1.17	0.0046	0.0478	Zfp433
TC0400003995. mm. 1	6.86	7.13	-1.21	0.0034	0.0384	Zfp534
TC0900001834. mm. 1	7.35	7.15	1.15	0.004	0.0435	Zfp560
TC0400001878. mm. 1	6.61	7.27	-1.57	4.91E-05	0.0014	Zfp600
TC0800003231. mm. 1	8.6	8.37	1.18	0.0049	0.0499	Zfp617
TC1300002228. mm. 1	7.17	8.11	-1.92	7.49E-05	0.0019	Zfp640
TC0800000874. mm. 1	8.98	9.32	-1.27	0.0008	0.0122	Zfp827

TC0200002709. mm. 1	12.01	11.74	1.21	0.0017	0.023	Zfp831
TC0800002368. mm. 1	10.12	9.79	1.25	0.0025	0.0304	Zfp868
TC0800002369. mm. 1	10.85	10.55	1.23	0.0037	0.0405	Zfp869
TC1100000839. mm. 1	8.49	8.22	1.2	0.0017	0.0225	Zkscan6
TC0200005155. mm. 1	10.78	10.57	1.16	0.0048	0.0493	Zmynd8
TC0800003235. mm. 1	11	10.72	1.22	0.0019	0.0251	Znrf1
TC1100000231. mm. 1	10.6	10.14	1.38	0.0012	0.017	Zrsr1
TC0700000113. mm. 1	4.99	5.39	-1.32	0.0017	0.0229	Zscan4c
TC0700002323. mm. 1	4.68	5.29	-1.52	0.0001	0.0025	Zscan4d
TC0700000115. mm. 1	5.13	5.54	-1.33	0.0008	0.0126	Zscan4f

Table S4: Narrow peaks ChIPseeker annotation of HDAC8 in Teff cells (1)

name	signalValue	'-log10pvalue	'-log10qvalue	peak summit	annotation	geneStart	geneEnd	geneName
Teff_1_peak_20565	4.06257	5.34677	2.44727	106	Intron (ENSMUST000000256)	34300075	34316677	Fas
Teff_1_peak_2618	3.25006	4.00752	1.3737	123	Distal Intergenic	161781422	161788358	Fasl
Teff_1_peak_5431	20.3079	41.1946	36.2183	174	Intron (ENSMUST000002394)	118502035	118555352	lfn gas1
Teff_1_peak_5432	7.60641	11.7718	8.1354	163	Distal Intergenic	118502035	118556525	lfn gas1
Teff_1_peak_5430	4.74045	6.40962	3.4088	134	Intron (ENSMUST000002394)	118502035	118555352	lfn gas1
Teff_1_peak_5433	3.8722	5.18708	2.43194	163	Distal Intergenic	118502035	118556525	lfn gas1
Teff_1_peak_3616	4.87509	6.76423	3.64202	180	Distal Intergenic	19591949	19610229	lfn gr1
Teff_1_peak_8255	4.06257	5.34677	2.44727	212	Promoter (<=1kb)	40203131	40207062	lfrd1
Teff_1_peak_33688	5.2373	7.03074	3.87203	163	Distal Intergenic	138657089	138658544	lgbp1b
Teff_1_peak_33687	4.8739	6.76096	3.64202	115	Distal Intergenic	138657089	138658544	lgbp1b
Teff_1_peak_33686	4.06257	5.34677	2.44727	112	Distal Intergenic	138657089	138658544	lgbp1b
Teff_1_peak_39290	5.63696	7.97698	4.75884	105	Intron (ENSMUST000000354)	65101535	65135580	lgdc4
Teff_1_peak_4809	5.68622	8.24419	4.94201	128	Distal Intergenic	87826377	87828362	lglf1os
Teff_1_peak_34858	21.1254	43.2605	38.2193	252	Intron (ENSMUST000000056)	68148590	68187969	lglf1r
Teff_1_peak_34857	10.3968	17.5237	13.5064	131	Intron (ENSMUST000000056)	68148590	68187969	lglf1r
Teff_1_peak_34859	9.65718	16.1589	12.2314	194	Promoter (<=1kb)	68210259	68212926	lglf1r
Teff_1_peak_34855	5.6876	8.24801	4.94201	127	Intron (ENSMUST000000056)	67952827	68233668	lglf1r
Teff_1_peak_34856	4.06158	5.34407	2.44727	110	Intron (ENSMUST000000056)	68148590	68187969	lglf1r
Teff_1_peak_15486	8.20741	12.8886	9.18821	116	Intron (ENSMUST000001000)	22083942	22137209	lglf2bp2
Teff_1_peak_15485	6.32601	9.91631	6.42252	156	Intron (ENSMUST000001000)	22059074	22089118	lglf2bp2
Teff_1_peak_15484	3.89293	4.82424	2.09523	175	Intron (ENSMUST000001000)	22076018	22079118	lglf2bp2
Teff_1_peak_32192	4.86616	6.742	3.64202	168	Intron (ENSMUST000000318)	49093111	49214161	lglf2bp3
Teff_1_peak_32193	4.06257	5.34677	2.44727	231	Intron (ENSMUST000000318)	49093111	49214161	lglf2bp3
Teff_1_peak_32191	4.06257	5.34677	2.44727	98	Intron (ENSMUST000000318)	49107400	49111100	lglf2bp3
Teff_1_peak_17045	6.49854	9.785	6.3163	94	Intron (ENSMUST000001609)	12682406	12769664	lglf2r
Teff_1_peak_17044	4.82859	6.63811	3.62767	108	Intron (ENSMUST000000245)	12698527	12701279	lglf2r
Teff_1_peak_1101	5.35278	7.76387	4.56047	108	Distal Intergenic	72824503	72852474	lglfbp2
Teff_1_peak_1103	4.02382	5.24228	2.44727	100	Distal Intergenic	72824503	72852474	lglfbp2
Teff_1_peak_1102	3.89293	4.82424	2.09523	177	Distal Intergenic	72824503	72852474	lglfbp2
Teff_1_peak_1104	3.25006	4.00752	1.3737	87	Distal Intergenic	72824503	72852474	lglfbp2
Teff_1_peak_7257	6.43812	9.61993	6.21244	145	Distal Intergenic	99041244	99054392	lglfbp4
Teff_1_peak_7256	6.33868	9.17091	5.7961	124	Distal Intergenic	99041244	99054392	lglfbp4
Teff_1_peak_9435	9.79491	16.4512	12.4844	305	Distal Intergenic	113254830	113260236	lgha
Teff_1_peak_9436	6.81263	11.0415	7.48584	311	Distal Intergenic	113254830	113260236	lgha
Teff_1_peak_9434	4.53674	5.76459	2.82567	191	Distal Intergenic	113254830	113260236	lgha
Teff_1_peak_9437	3.02404	4.00811	1.37413	96	Downstream (2-3kb)	113254830	113260236	lgha
Teff_1_peak_34468	5.48614	7.97585	4.75786	101	Intron (ENSMUST000001079)	43474186	43478233	lglon5
Teff_1_peak_40563	3.25006	4.00752	1.3737	96	Downstream (1-2kb)	49782536	49788243	lgsf1
Teff_1_peak_15791	4.82859	6.63811	3.62767	128	Intron (ENSMUST000002095)	38892671	38924468	lgsf11
Teff_1_peak_15792	4.06257	5.34677	2.44727	177	Intron (ENSMUST000002095)	38892671	38924468	lgsf11
Teff_1_peak_15793	3.91464	4.96478	2.22899	172	Intron (ENSMUST000002095)	38902508	38924468	lgsf11
Teff_1_peak_28685	24.8174	65.4539	59.8419	230	Distal Intergenic	140026846	140246784	lgsf21
Teff_1_peak_25632	4.78411	6.52117	3.51573	339	Distal Intergenic	101377083	101379540	lgsf3
Teff_1_peak_16814	11.3004	19.5869	15.4588	259	Distal Intergenic	96361668	96422121	lgsf5
Teff_1_peak_16818	5.6876	8.24801	4.94201	126	Promoter (2-3kb)	96386331	96403328	lgsf5
Teff_1_peak_16815	4.63987	6.38707	3.88873	107	Distal Intergenic	96361668	96422121	lgsf5
Teff_1_peak_16817	3.95037	5.05305	2.30734	91	Intron (ENSMUST000001137)	96386331	96403328	lgsf5
Teff_1_peak_2855	5.42499	7.63169	4.43834	108	Intron (ENSMUST000001395)	172311771	172319841	lgsf8
Teff_1_peak_19121	4.87509	6.76423	3.64202	217	Promoter (<=1kb)	36752355	36753454	lk
Teff_1_peak_5821	4.06158	5.34407	2.44727	112	Intron (ENSMUST000001457)	11685503	11707800	lkzf1
Teff_1_peak_7246	12.1848	21.755	17.5156	182	Intron (ENSMUST000001031)	98484267	98489020	lkzf3
Teff_1_peak_7245	7.31085	11.3767	7.75927	178	Promoter (<=1kb)	98484267	98489020	lkzf3
Teff_1_peak_7247	4.87509	6.76423	3.64202	116	Intron (ENSMUST000001031)	98464902	98545800	lkzf3
Teff_1_peak_5668	8.24028	13.1256	9.37352	121	Intron (ENSMUST000002386)	128630843	128669358	lkzf4
Teff_1_peak_2131	5.94102	8.42072	5.08169	137	Distal Intergenic	131019845	131024974	ll10
Teff_1_peak_25102	13.9664	25.6341	21.2176	139	Promoter (2-3kb)	68690644	68698547	ll12a
Teff_1_peak_25103	11.8124	21.8562	17.6016	122	Distal Intergenic	68694021	68698547	ll12a
Teff_1_peak_25100	5.19839	7.05527	3.88204	157	Distal Intergenic	68690644	68698547	ll12a
Teff_1_peak_25101	4.87509	6.76423	3.64202	95	Distal Intergenic	68690644	68698547	ll12a
Teff_1_peak_25104	4.78411	6.52117	3.51573	107	Distal Intergenic	68694021	68698547	ll12a
Teff_1_peak_32498	10.7056	20.977	16.776	142	Intron (ENSMUST000000184)	67292018	67376188	ll12rb2
Teff_1_peak_32494	10.5601	18.1593	14.0921	142	Intron (ENSMUST000001174)	67291318	67339694	ll12rb2
Teff_1_peak_32497	6.49854	9.785	6.3163	104	Intron (ENSMUST000000184)	67292018	67376188	ll12rb2
Teff_1_peak_32493	4.87509	6.76423	3.64202	120	Intron (ENSMUST000001174)	67291318	67339694	ll12rb2
Teff_1_peak_32496	4.87509	6.76423	3.64202	174	Promoter (<=1kb)	67291318	67339694	ll12rb2
Teff_1_peak_32495	4.06257	5.34677	2.44727	107	Intron (ENSMUST000001174)	67291318	67339694	ll12rb2
Teff_1_peak_40980	5.6876	8.24801	4.94201	111	Distal Intergenic	147383478	147403832	ll13ra2
Teff_1_peak_37426	6.50011	9.78938	6.3163	117	Distal Intergenic	82331914	82344473	ll15
Teff_1_peak_21235	11.7839	21.0232	16.8089	152	Promoter (1-2kb)	11723164	11733968	ll15ra
Teff_1_peak_267	28.438	62.4018	56.8625	175	Distal Intergenic	20730905	20734496	ll17a
Teff_1_peak_33337	6.49854	9.785	6.3163	110	Distal Intergenic	120463247	120483729	ll17ra
Teff_1_peak_11969	11.3752	19.95	15.7816	239	Intron (ENSMUST000000353)	27087765	27101491	ll17rd
Teff_1_peak_11968	8.07973	12.6436	8.96196	134	Intron (ENSMUST000000353)	27067397	27100976	ll17rd
Teff_1_peak_11967	7.85596	12.2248	8.55132	114	Intron (ENSMUST000000353)	27067397	27100976	ll17rd
Teff_1_peak_11966	3.98676	5.14542	2.3925	115	Distal Intergenic	27038941	27107286	ll17rd
Teff_1_peak_33218	5.35278	7.76387	4.56047	116	Distal Intergenic	113458484	113470758	ll17re
Teff_1_peak_603	5.6876	8.24801	4.94201	137	Intron (ENSMUST000001677)	40466006	40500854	ll18r1
Teff_1_peak_2130	4.8739	6.76096	3.64202	186	Distal Intergenic	130932816	130940115	ll19
Teff_1_peak_23134	4.06257	5.34677	2.44727	111	Promoter (1-2kb)	129299610	129309972	ll1a
Teff_1_peak_21463	6.97254	10.4526	6.9404	111	Distal Intergenic	24291196	24293820	ll1f10
Teff_1_peak_21462	4.02382	5.24228	2.44727	103	Distal Intergenic	24153161	24160519	ll1f8
Teff_1_peak_595	8.51062	13.6178	9.83287	123	Intron (ENSMUST000000272)	40266657	40277178	ll1r1
Teff_1_peak_593	7.42628	11.2985	7.72844	331	Intron (ENSMUST000000272)	40225080	40317257	ll1r1
Teff_1_peak_592	5.6876	8.24801	4.94201	112	Distal Intergenic	40225080	40317257	ll1r1
Teff_1_peak_594	4.37955	5.76076	2.82232	104	Intron (ENSMUST000000272)	40266657	40277178	ll1r1
Teff_1_peak_589	5.2373	7.03074	3.87203	112	Intron (ENSMUST000001916)	40084698	40125231	ll1r2
Teff_1_peak_15584	7.78586	13.379	9.61786	121	Intron (ENSMUST000000961)	26624156	26715068	ll1rap
Teff_1_peak_15582	5.19839	7.05527	3.88204	146	Distal Intergenic	26581704	26725264	ll1rap
Teff_1_peak_15583	4.06257	5.34677	2.44727	76	Promoter (1-2kb)	26624156	26715068	ll1rap
Teff_1_peak_40729	12.6247	22.5167	18.2394	164	Intron (ENSMUST000001139)	86747242	87890235	ll1rapl1
Teff_1_peak_40731	5.94102	8.42072	5.08169	122	Distal Intergenic	86769118	88115645	ll1rapl1
Teff_1_peak_40727	4.87509	6.76423	3.64202	117	Intron (ENSMUST000001139)	86747242	87890235	ll1rapl1
Teff_1_peak_40728	4.8739	6.76096	3.64202	135	Intron (ENSMUST000001139)	86747242	87890235	ll1rapl1

Teff_1_peak_602	6.97254	10.4526	6.9404	132	Distal Intergenic	40429570	40446723	1r1
Teff_1_peak_601	4.58264	5.84655	2.87288	199	Distal Intergenic	40429570	40446723	1r1
Teff_1_peak_24612	17.871	35.1453	30.3733	150	Promoter (<=1kb)	37120523	37125959	2
Teff_1_peak_24613	7.11067	10.8439	7.3222	160	Distal Intergenic	37120523	37125959	2
Teff_1_peak_3621	10.7056	20.977	16.776	158	Distal Intergenic	19712570	19760053	20ra
Teff_1_peak_39807	8.51062	13.6178	9.83287	145	Intron (ENSMUST000000984)	100465708	100486385	20rb
Teff_1_peak_39808	8.12514	13.0194	9.27358	317	Promoter (2-3kb)	100465708	100486385	20rb
Teff_1_peak_35815	8.77087	14.2462	10.4486	157	Intron (ENSMUST000002062)	125603537	125633570	21r
Teff_1_peak_35816	3.80321	4.50137	1.82856	105	Intron (ENSMUST000002062)	125603537	125633570	21r
Teff_1_peak_28625	8.08438	16.5758	12.5918	135	Distal Intergenic	135728172	135752140	22ra1
Teff_1_peak_3617	6.49854	9.785	6.3163	142	Distal Intergenic	19621998	19634681	22ra2
Teff_1_peak_3618	4.58264	5.84655	2.87288	93	Intron (ENSMUST000000365)	19621998	19634681	22ra2
Teff_1_peak_32502	11.3752	19.95	15.7816	153	Intron (ENSMUST000001183)	67422932	67491855	23r
Teff_1_peak_32501	5.68622	8.24419	4.94201	98	Intron (ENSMUST000001183)	67422932	67491855	23r
Teff_1_peak_2129	4.87509	6.76423	3.64202	106	Distal Intergenic	130882074	130887454	24
Teff_1_peak_35832	6.51595	9.47786	6.09566	128	Distal Intergenic	126589010	126594941	27
Teff_1_peak_21233	13.6253	29.2751	24.7091	154	Promoter (2-3kb)	11642807	11693193	2ra
Teff_1_peak_21234	3.80321	4.50137	1.82856	106	Promoter (<=1kb)	11679708	11680209	2ra
Teff_1_peak_6464	4.87509	6.76423	3.64202	113	Promoter (<=1kb)	54265303	54267277	3
Teff_1_peak_30917	14.7655	29.4594	24.883	182	Intron (ENSMUST000001968)	123480401	123489489	31
Teff_1_peak_11492	6.54663	9.54535	6.14107	133	Promoter (1-2kb)	112522795	112580662	31ra
Teff_1_peak_11490	5.42108	8.78878	5.43457	264	Intron (ENSMUST000002238)	112525846	112532344	31ra
Teff_1_peak_11491	3.25006	4.00752	1.3737	68	Intron (ENSMUST000002238)	112522795	112580662	31ra
Teff_1_peak_6448	7.07355	11.8301	8.19063	135	Distal Intergenic	53612460	53618669	4
Teff_1_peak_29333	4.87509	6.76423	3.64202	128	Intron (ENSMUST000000268)	30013321	30019839	6
Teff_1_peak_29332	4.06257	5.34677	2.44727	155	Promoter (<=1kb)	30013321	30019839	6
Teff_1_peak_25433	6.50011	9.78938	6.3163	125	Distal Intergenic	89864059	89913196	6ra
Teff_1_peak_25434	3.21906	3.9246	1.3737	61	Distal Intergenic	89864059	89913196	6ra
Teff_1_peak_24093	7.31263	11.3816	7.75927	129	Distal Intergenic	7573182	7613760	7
Teff_1_peak_24092	4.06257	5.34677	2.44727	124	Intron (ENSMUST000001812)	7573182	7613760	7
Teff_1_peak_13646	13.8127	25.4723	21.0571	143	Intron (ENSMUST000002287)	9511898	9529766	7r
Teff_1_peak_13647	5.6876	8.24801	4.94201	122	Intron (ENSMUST000001602)	9516409	9530176	7r
Teff_1_peak_13645	4.8739	6.76096	3.64202	152	Downstream (1-2kb)	9511898	9529766	7r
Teff_1_peak_2726	4.87509	6.76423	3.64202	167	Intron (ENSMUST000001114)	166254193	166311270	dr2
Teff_1_peak_38590	6.50011	9.78938	6.3163	164	Promoter (<=1kb)	21377126	21405090	f3

Table S5: Narrow peaks ChIPseeker annotation of HDAC8 in Teff cells (2)

name	signalValue	'-log10pvalue	'-log10qvalue	peak_summit	annotation	geneStart	geneEnd	geneName
Teff 2_peak 30502	3.97432	4.94962	2.1674	120	Distal Intergenic	43662346	43740972	Cc2d2a
Teff 2_peak 30504	4.10242	5.458	2.50376	139	Intron (ENSMUST0000	43696582	43717017	Cc2d2a
Teff 2_peak 30503	3.98284	4.81771	2.04745	192	Promoter (<=1kb)	43662346	43740972	Cc2d2a
Teff 2_peak 21408	13.2761	24.5046	20.0717	149	Promoter (2-3kb)	40774370	40778148	Cc2d2b
Teff 2_peak 20368	5.74473	8.40906	5.0264	106	Distal Intergenic	66269021	66302741	Ccbe1
Teff 2_peak 20369	6.22957	9.18015	5.74621	127	Distal Intergenic	66269021	66302741	Ccbe1
Teff 2_peak 41579	4.17367	5.17321	2.37415	148	Distal Intergenic	121489824	121493564	Cck
Teff 2_peak 41580	4.6268	7.46535	4.22207	116	Distal Intergenic	121489824	121493564	Cck
Teff 2_peak 7231	5.74473	8.40906	5.0264	109	Distal Intergenic	82176657	82179812	Ccl1
Teff 2_peak 7237	14.6038	27.761	23.2049	182	Distal Intergenic	82176657	82305690	Ccl1
Teff 2_peak 7233	4.92405	6.9017	3.72503	131	Intron (ENSMUST0000	82176657	82305690	Ccl1
Teff 2_peak 7234	5.31046	7.1641	3.94449	161	Intron (ENSMUST0000	82176657	82305690	Ccl1
Teff 2_peak 7235	4.92405	6.9017	3.72503	147	Intron (ENSMUST0000	82176657	82305690	Ccl1
Teff 2_peak 7232	16.4135	31.6871	26.9664	256	Intron (ENSMUST0000	82176659	82179812	Ccl1
Teff 2_peak 7236	4.9679	6.90231	3.72503	125	Promoter (1-2kb)	82176657	82305690	Ccl1
Teff 2_peak 1281	4.36614	6.20454	3.16549	219	Distal Intergenic	83116793	83119167	Ccl20
Teff 2_peak 38854	11.2936	19.5082	15.3251	132	Distal Intergenic	94745590	94751699	Ccl22
Teff 2_peak 38855	3.76453	4.61687	1.89299	80	Distal Intergenic	94745590	94751699	Ccl22
Teff 2_peak 38856	9.2933	15.2818	11.3219	209	Distal Intergenic	94745590	94751699	Ccl22
Teff 2_peak 37363	7.38436	11.5849	7.89665	147	Promoter (1-2kb)	4332259	4334807	Ccl25
Teff 2_peak 12037	3.2827	4.09797	1.41255	162	Promoter (1-2kb)	119623819	119654359	Ccl28
Teff 2_peak 7254	8.28196	13.0543	9.2873	145	Intron (ENSMUST0000	83587882	83593087	Ccl6
Teff 2_peak 7252	9.04295	14.6368	10.7517	146	Distal Intergenic	83575318	83577142	Ccl9
Teff 2_peak 5953	4.92405	6.9017	3.72503	109	Intron (ENSMUST0000	6561230	6596742	Ccm2
Teff 2_peak 14839	5.74473	8.40906	5.0264	156	Distal Intergenic	54745702	54754039	Ccn3
Teff 2_peak 15053	15.5028	30.7666	26.0951	171	Intron (ENSMUST0000	66909311	66919235	Ccn4
Teff 2_peak 27846	7.52906	11.528	7.88604	140	Intron (ENSMUST0000	21727767	21748554	Ccnc
Teff 2_peak 18337	3.31903	3.7386	1.30114	172	Intron (ENSMUST0000	47505241	47598649	Ccnd3
Teff 2_peak 18338	5.49671	7.74757	4.49151	112	Intron (ENSMUST0000	47505241	47598649	Ccnd3
Teff 2_peak 18339	5.54433	7.86753	4.60879	121	Intron (ENSMUST0000	47505241	47598649	Ccnd3
Teff 2_peak 18340	4.92291	6.89843	3.72503	127	Intron (ENSMUST0000	47593436	47598174	Ccnd3
Teff 2_peak 23707	4.83251	6.30984	3.26795	104	Promoter (<=1kb)	121011055	121011756	Ccndbp1
Teff 2_peak 35515a	16.8908	38.7077	33.7558	180	Distal Intergenic	38097984	38107534	Ccne1
Teff 2_peak 35515b	5.86615	8.58555	5.19271	549	Distal Intergenic	38097984	38107534	Ccne1
Teff 2_peak 6480	13.1278	23.9695	19.5727	178	Distal Intergenic	40748552	40755311	Ccng1
Teff 2_peak 6481	3.47753	4.04546	1.41255	146	Distal Intergenic	40748552	40755311	Ccng1
Teff 2_peak 6482	4.92405	6.9017	3.72503	137	Distal Intergenic	40748552	40755311	Ccng1
Teff 2_peak 6483	4.10338	5.46071	2.50376	146	Distal Intergenic	40748552	40755311	Ccng1
Teff 2_peak 31302	3.82758	4.75883	2.02433	62	Distal Intergenic	93268708	93273485	Ccng2
Teff 2_peak 21409	3.47753	4.04546	1.41255	203	Exon (ENSMUST0000	40831279	40848572	Ccnj
Teff 2_peak 21410	3.31903	3.7386	1.30114	101	Intron (ENSMUST0000	40831279	40848572	Ccnj
Teff 2_peak 6514	6.39177	9.49669	6.05007	140	Intron (ENSMUST0000	43529246	43556689	Ccnjl
Teff 2_peak 6515	6.77615	10.0428	6.48531	132	Intron (ENSMUST0000	43529246	43556689	Ccnjl
Teff 2_peak 25861	4.10338	5.46071	2.50376	137	Promoter (2-3kb)	65946782	65947998	Ccnl1
Teff 2_peak 7141	12.6123	22.9075	18.548	178	Distal Intergenic	78750506	78751729	Ccnq
Teff 2_peak 41625	3.2827	4.09797	1.41255	100	Distal Intergenic	123962124	123968692	Ccr1
Teff 2_peak 41626	4.87911	6.77535	3.70633	106	Distal Intergenic	123977243	123978408	Ccr1l1
Teff 2_peak 41627	20.578	43.2871	38.1892	170	Distal Intergenic	123977243	123978408	Ccr1l1
Teff 2_peak 41628	3.98284	4.81771	2.04745	213	Distal Intergenic	124128748	124147699	Ccr5
Teff 2_peak 7551	5.74473	8.40906	5.0264	116	Distal Intergenic	99144196	99155077	Ccr7
Teff 2_peak 33443	3.2827	4.09797	1.41255	189	Intron (ENSMUST0000	61373997	61811178	Ccser1
Teff 2_peak 33446	11.4895	20.2764	16.0329	179	Intron (ENSMUST0000	61570670	61820582	Ccser1
Teff 2_peak 33447	6.95506	11.272	7.64474	222	Intron (ENSMUST0000	61570670	61820582	Ccser1
Teff 2_peak 33448	5.55691	9.01087	5.58791	124	Intron (ENSMUST0000	61785111	61820121	Ccser1
Teff 2_peak 33449	7.96568	12.4285	8.69114	155	Intron (ENSMUST0000	61785111	61820121	Ccser1
Teff 2_peak 33450	4.10338	5.46071	2.50376	102	Intron (ENSMUST0000	61785111	61820121	Ccser1
Teff 2_peak 33451	4.10338	5.46071	2.50376	190	Intron (ENSMUST0000	61956689	62382865	Ccser1
Teff 2_peak 33452	3.2827	4.09797	1.41255	84	Intron (ENSMUST0000	61956689	62382865	Ccser1
Teff 2_peak 33444	11.2847	19.7813	15.58	146	Promoter (<=1kb)	61374040	61470265	Ccser1
Teff 2_peak 33445	4.92405	6.9017	3.72503	90	Promoter (1-2kb)	61570670	61820582	Ccser1
Teff 2_peak 12577	4.64665	5.96237	2.93175	190	Distal Intergenic	36874936	36968777	Ccser2
Teff 2_peak 12573	4.92405	6.9017	3.72503	114	Downstream (<1kb)	36879570	36886360	Ccser2
Teff 2_peak 12576	6.5654	9.97402	6.43068	143	Intron (ENSMUST0000	36900790	36939945	Ccser2
Teff 2_peak 12575	6.02325	8.603	5.19669	177	Promoter (<=1kb)	36878840	36906318	Ccser2
Teff 2_peak 12574	4.10338	5.46071	2.50376	148	Promoter (2-3kb)	36878840	36906318	Ccser2
Teff 2_peak 26212	5.74339	8.40523	5.0264	446	Intron (ENSMUST0000	88302838	88320650	Cct3
Teff 2_peak 26211	5.74473	8.40906	5.0264	128	Promoter (<=1kb)	88302838	88320650	Cct3
Teff 2_peak 30201	4.10242	5.458	2.50376	192	Promoter (<=1kb)	25516067	25518027	Cct8l1
Teff 2_peak 32264	4.64665	5.96237	2.93175	199	Promoter (<=1kb)	143992478	144004159	Ccz1
Teff 2_peak 4098	5.74473	8.40906	5.0264	107	Distal Intergenic	41520044	41526876	Cd164
Teff 2_peak 11723	3.98284	4.81771	2.04745	115	Distal Intergenic	102693558	102706955	Cd180
Teff 2_peak 11724	3.79795	4.49235	1.79138	105	Distal Intergenic	102693558	102706955	Cd180
Teff 2_peak 11725	5.74339	8.40523	5.0264	92	Intron (ENSMUST0000	102693611	102739504	Cd180
Teff 2_peak 37052	5.97426	8.41633	5.0264	104	Distal Intergenic	126409362	126409796	Cd19
Teff 2_peak 26195	7.30188	11.0524	7.43798	127	Distal Intergenic	86986551	86989780	Cd1d2
Teff 2_peak 26444	3.92622	4.99313	2.20858	140	Promoter (2-3kb)	101275899	101287939	Cd2
Teff 2_peak 16484	8.20675	13.2513	9.43183	132	Distal Intergenic	45392245	45400312	Cd200
Teff 2_peak 16485	9.02533	14.9479	11.0176	136	Downstream (1-2kb)	45392245	45400312	Cd200
Teff 2_peak 16486	7.30188	11.0524	7.43798	188	Intron (ENSMUST0000	45392245	45400312	Cd200
Teff 2_peak 16487	4.10338	5.46071	2.50376	100	Promoter (2-3kb)	45392245	45400312	Cd200
Teff 2_peak 16475	4.47111	5.90358	2.90631	115	Intron (ENSMUST0000	44765826	44794344	Cd200r1
Teff 2_peak 16477	5.31046	7.1641	3.94449	112	Distal Intergenic	44965254	44966854	Cd200r3
Teff 2_peak 16476	3.76453	4.61687	1.89299	210	Intron (ENSMUST0000	44820728	44839150	Cd200r4
Teff 2_peak 37354	9.2933	15.2818	11.3219	362	Downstream (1-2kb)	3743801	3748927	Cd209a

Teff 2_peak 37355	3.2827	4.09797	1.41255	93	Intron (ENSMUST0000	3743801	3748927	Cd209a
Teff 2_peak 37360	4.92291	6.89843	3.72503	113	Intron (ENSMUST0000	3918677	3926813	Cd209b
Teff 2_peak 37358	4.79382	6.54641	3.48709	133	Distal Intergenic	3871824	3878555	Cd209d
Teff 2_peak 37359	8.20675	13.2513	9.43183	154	Distal Intergenic	3871824	3878555	Cd209d
Teff 2_peak 37357	4.10338	5.46071	2.50376	112	Distal Intergenic	3847965	3854309	Cd209e
Teff 2_peak 37356	5.31046	7.1641	3.94449	171	Intron (ENSMUST0000	3847965	3854309	Cd209e
Teff 2_peak 20829	4.92291	6.89843	3.72503	108	Distal Intergenic	89206101	89207338	Cd226
Teff 2_peak 20827	4.92291	6.89843	3.72503	109	Intron (ENSMUST0000	89206101	89207338	Cd226
Teff 2_peak 20828	4.64665	5.96237	2.93175	146	Intron (ENSMUST0000	89206101	89207338	Cd226
Teff 2_peak 2907	7.1446	13.1601	9.38856	192	Intron (ENSMUST0000	171579063	171585318	Cd244a
Teff 2_peak 2908	4.64665	5.96237	2.93175	95	Intron (ENSMUST0000	171579063	171585318	Cd244a
Teff 2_peak 2768	11.4868	20.2686	16.0329	139	Intron (ENSMUST0000	165788765	165870249	Cd247
Teff 2_peak 34523	6.95506	11.272	7.64474	123	Exon (ENSMUST00000	125232622	125237010	Cd27
Teff 2_peak 931	5.31046	7.1641	3.94449	140	Intron (ENSMUST0000	60746358	60773359	Cd28
Teff 2_peak 18242	4.51743	5.8824	2.89265	156	Distal Intergenic	42816264	42876665	Cd2ap
Teff 2_peak 18243	5.97426	8.41633	5.0264	92	Distal Intergenic	42816264	42876665	Cd2ap
Teff 2_peak 18244	4.51743	5.8824	2.89265	152	Distal Intergenic	42816264	42876665	Cd2ap
Teff 2_peak 18245	5.31046	7.1641	3.94449	109	Distal Intergenic	42816264	42876665	Cd2ap
Teff 2_peak 18246	4.64665	5.96237	2.93175	131	Distal Intergenic	42816264	42876665	Cd2ap
Teff 2_peak 18241	7.24474	11.1372	7.51869	129	Intron (ENSMUST0000	42825421	42831030	Cd2ap
Teff 2_peak 7883	6.22845	9.08335	5.65213	115	Distal Intergenic	114890041	114904654	Cd300a
Teff 2_peak 7887	5.81779	8.13128	4.85068	95	Exon (ENSMUST00000	115120357	115126791	Cd300if
Teff 2_peak 7888	7.16347	11.976	8.27117	103	Intron (ENSMUST0000	115120357	115126791	Cd300if
Teff 2_peak 7890	4.64665	5.96237	2.93175	111	Promoter (<=1kb)	115116214	115133992	Cd300if
Teff 2_peak 7889	4.52495	5.74368	2.77404	191	Promoter (2-3kb)	115120261	115126850	Cd300if
Teff 2_peak 30085	4.17367	5.17321	2.37415	103	Distal Intergenic	17782016	17835696	Cd36
Teff 2_peak 30086	5.74473	8.40906	5.0264	101	Intron (ENSMUST0000	17782016	17835696	Cd36
Teff 2_peak 40243	5.54433	7.86753	4.60879	105	Promoter (<=1kb)	44969572	44980431	Cd3g
Teff 2_peak 34512	3.04976	6.1612	3.12474	129	Intron (ENSMUST0000	124867333	124888199	Cd4
Teff 2_peak 34513	3.85728	24.2124	19.795	189	Intron (ENSMUST0000	124867333	124888199	Cd4
Teff 2_peak 34515	6.1603	15.5774	11.6101	150	Promoter (<=1kb)	124867333	124888199	Cd4
Teff 2_peak 34514	15.3321	102.437	95.8422	234	Promoter (1-2kb)	124867333	124888199	Cd4
Teff 2_peak 23420	7.92048	12.4712	8.72434	143	Distal Intergenic	102811141	102901665	Cd44
Teff 2_peak 23419	3.96341	6.3117	3.26967	129	Promoter (1-2kb)	102811141	102901665	Cd44
Teff 2_peak 3403	3.98284	4.81771	2.04745	130	Promoter (2-3kb)	195036826	195092249	Cd46
Teff 2_peak 16579	5.74339	8.40523	5.0264	131	Distal Intergenic	49866833	49911091	Cd47
Teff 2_peak 16580	9.2933	15.2818	11.3219	172	Distal Intergenic	49866833	49911091	Cd47
Teff 2_peak 16581	6.56388	9.96963	6.43068	119	Distal Intergenic	49866833	49911091	Cd47
Teff 2_peak 16582	4.10338	5.46071	2.50376	179	Distal Intergenic	49866833	49911091	Cd47
Teff 2_peak 16583	9.02743	14.9539	11.0176	121	Distal Intergenic	49866833	49911091	Cd47
Teff 2_peak 16577	3.2827	4.09797	1.41255	98	Intron (ENSMUST0000	49866833	49911091	Cd47
Teff 2_peak 16578	8.20675	13.2513	9.43183	169	Intron (ENSMUST0000	49866833	49911091	Cd47
Teff 2_peak 16576	4.92405	6.9017	3.72503	123	Intron (ENSMUST0000	49866833	49911091	Cd47
Teff 2_peak 26522	5.97426	8.41633	5.0264	217	Intron (ENSMUST0000	106759921	106790149	Cd53
Teff 2_peak 26523	3.98284	4.81771	2.04745	153	Intron (ENSMUST0000	106759921	106790149	Cd53
Teff 2_peak 2157	4.92291	6.89843	3.72503	116	Promoter (<=1kb)	130440154	130448849	Cd55
Teff 2_peak 2153	5.74473	8.40906	5.0264	117	Distal Intergenic	130419601	130422740	Cd55b
Teff 2_peak 2154	4.47111	5.90358	2.90631	99	Distal Intergenic	130419601	130422740	Cd55b
Teff 2_peak 2155	4.06593	5.35599	2.50376	87	Intron (ENSMUST0000	130419601	130422740	Cd55b
Teff 2_peak 2156	4.83609	6.65819	3.594	146	Intron (ENSMUST0000	130419601	130422740	Cd55b
Teff 2_peak 20957	4.64665	5.96237	2.93175	111	Promoter (<=1kb)	10789341	10830058	Cd6
Teff 2_peak 20956	4.10338	5.46071	2.50376	192	Promoter (2-3kb)	10794564	10829856	Cd6
Teff 2_peak 5848	4.92405	6.9017	3.72503	145	Distal Intergenic	128900989	128912822	Cd63
Teff 2_peak 6983	12.1548	22.4558	18.1218	148	Promoter (<=1kb)	69664306	69666062	Cd68
Teff 2_peak 34599	7.75705	12.0436	8.3332	133	Distal Intergenic	129267325	129275436	Cd69
Teff 2_peak 28167	3.2827	4.09797	1.41255	98	Distal Intergenic	43447724	43454628	Cd72
Teff 2_peak 20244	4.10242	5.458	2.50376	150	Distal Intergenic	60803848	60809253	Cd74
Teff 2_peak 35301	8.97466	14.5018	10.6298	171	Distal Intergenic	24897381	24902197	Cd79a
Teff 2_peak 7671	4.65667	5.98066	2.94866	100	Downstream (<1kb)	106311344	106314529	Cd79b
Teff 2_peak 10667	6.02325	8.603	5.19669	153	Distal Intergenic	43784775	43803132	Cd83
Teff 2_peak 10668	4.10242	5.458	2.50376	170	Distal Intergenic	43785185	43803128	Cd83
Teff 2_peak 2915	9.8481	16.6943	12.6544	151	Intron (ENSMUST0000	171840633	171886430	Cd84
Teff 2_peak 16333	5.96148	9.01831	5.58862	130	Intron (ENSMUST0000	36603869	36606077	Cd86
Teff 2_peak 16332	10.6688	18.4693	14.3201	149	Intron (ENSMUST0000	36603897	36604519	Cd86
Teff 2_peak 34528	7.11063	10.7008	7.11598	164	Exon (ENSMUST00000	125460266	125494791	Cd9
Teff 2_peak 21310	5.74339	8.40523	5.0264	131	Distal Intergenic	34300075	34316677	Fas
Teff 2_peak 21307	4.92405	6.9017	3.72503	146	Intron (ENSMUST0000	34300075	34316677	Fas
Teff 2_peak 21308	4.10338	5.46071	2.50376	200	Intron (ENSMUST0000	34300075	34316677	Fas
Teff 2_peak 21309	4.92405	6.9017	3.72503	189	Intron (ENSMUST0000	34300075	34316677	Fas
Teff 2_peak 2683	4.10338	5.46071	2.50376	109	Distal Intergenic	161780689	161788495	Fasl
Teff 2_peak 2682	4.92405	6.9017	3.72503	370	Promoter (2-3kb)	161780689	161788495	Fasl
Teff 2_peak 5570	4.64665	5.96237	2.93175	122	Distal Intergenic	118441046	118445892	lfnng
Teff 2_peak 5575	5.81779	8.13128	4.85068	93	Distal Intergenic	118502035	118556525	lfnngas1
Teff 2_peak 5574	4.10242	5.458	2.50376	107	Intron (ENSMUST0000	118502035	118555352	lfnngas1
Teff 2_peak 5573	17.2302	33.6584	28.8807	197	Intron (ENSMUST0000	118502035	118555352	lfnngas1
Teff 2_peak 17305	3.31903	3.7386	1.30114	209	Downstream (1-2kb)	91561323	91565169	lfngr2
Teff 2_peak 17297	4.10338	5.46071	2.50376	152	Distal Intergenic	91406444	91414632	l 10rb
Teff 2_peak 25909	6.02325	8.603	5.19669	120	Distal Intergenic	68690644	68698547	l 12a
Teff 2_peak 25911	7.24474	11.1372	7.51869	95	Distal Intergenic	68694021	68698547	l 12a
Teff 2_peak 25910	10.2082	17.2243	13.1606	165	Promoter (2-3kb)	68690644	68698547	l 12a
Teff 2_peak 33540	6.56388	9.96963	6.43068	129	Exon (ENSMUST00000	67291318	67339694	l 12rb2
Teff 2_peak 33542	11.923	24.0808	19.6682	142	Intron (ENSMUST0000	67292018	67376188	l 12rb2
Teff 2_peak 33541	4.92291	6.89843	3.72503	316	Intron (ENSMUST0000	67291318	67339694	l 12rb2
Teff 2_peak 33543	7.26475	10.9834	7.39244	152	Promoter (2-3kb)	67292018	67376188	l 12rb2
Teff 2_peak 6684	6.35075	11.0334	7.43798	124	Downstream (1-2kb)	53631324	53634702	l 13
Teff 2_peak 41852	3.97432	4.94962	2.1674	119	Intron (ENSMUST0000	36112110	36171259	l 13ra1

Teff 2_peak 38669	8.20675	13.2513	9.43183	117	Distal Intergenic	82331914	82344473	15
Teff 2_peak 21982	4.92405	6.9017	3.72503	169	Intron (ENSMUST0000	11723164	11733968	15ra
Teff 2_peak 21981	11.9485	21.3327	17.0479	198	Promoter (1-2kb)	11723164	11733968	15ra
Teff 2_peak 268	23.7996	50.1937	44.8763	239	Distal Intergenic	20730905	20734496	17a
Teff 2_peak 269	3.76453	4.61687	1.89299	62	Promoter (1-2kb)	20777679	20779554	17f
Teff 2_peak 34443	4.51743	5.8824	2.89265	142	Distal Intergenic	120463247	120483729	17ra
Teff 2_peak 12404	4.92405	6.9017	3.72503	94	Intron (ENSMUST0000	27067397	27100976	17rd
Teff 2_peak 12405	6.85184	10.1183	6.55995	154	Intron (ENSMUST0000	27067397	27100976	17rd
Teff 2_peak 12406	12.3101	22.1134	17.791	234	Intron (ENSMUST0000	27087765	27101491	17rd
Teff 2_peak 40359	3.98284	4.81771	2.04745	144	Distal Intergenic	50575273	50581837	18
Teff 2_peak 626	5.74473	8.40906	5.0264	119	Intron (ENSMUST0000	40466006	40500854	18r1
Teff 2_peak 628	5.31046	7.1641	3.94449	96	Intron (ENSMUST0000	40541692	40547903	18rap
Teff 2_peak 2164	4.10338	5.46071	2.50376	116	Distal Intergenic	130932816	130940115	19
Teff 2_peak 22207	5.31046	7.1641	3.94449	107	Promoter (2-3kb)	24186476	24193568	1f9
Teff 2_peak 610	3.31903	3.7386	1.30114	197	Distal Intergenic	40225080	40317257	1r1
Teff 2_peak 611	6.88964	10.3039	6.73513	111	Distal Intergenic	40225080	40317257	1r1
Teff 2_peak 612	3.2827	4.09797	1.41255	107	Distal Intergenic	40225080	40317257	1r1
Teff 2_peak 613	6.02325	8.603	5.19669	112	Intron (ENSMUST0000	40225080	40317257	1r1
Teff 2_peak 614	6.45827	10.1292	6.5638	113	Intron (ENSMUST0000	40266657	40277178	1r1
Teff 2_peak 615	6.63807	9.71386	6.24177	220	Intron (ENSMUST0000	40266657	40277178	1r1
Teff 2_peak 608	3.40043	3.8861	1.41255	229	Distal Intergenic	40074079	40112136	1r2
Teff 2_peak 609	4.10242	5.458	2.50376	100	Promoter (2-3kb)	40084698	40125231	1r2
Teff 2_peak 16139	4.92405	6.9017	3.72503	114	Intron (ENSMUST0000	26727042	26728228	1rap
Teff 2_peak 16138	5.31046	7.1641	3.94449	61	Promoter (<=1kb)	26722434	26730117	1rap
Teff 2_peak 42068	6.5654	9.97402	6.43068	165	Intron (ENSMUST0000	86747242	87890235	1rap1
Teff 2_peak 42069	9.78778	16.2169	12.225	151	Intron (ENSMUST0000	86747242	87890235	1rap1
Teff 2_peak 621	4.10338	5.46071	2.50376	179	Distal Intergenic	40429570	40446723	1r1
Teff 2_peak 622	4.03008	5.25891	2.45255	379	Distal Intergenic	40429570	40446723	1r1
Teff 2_peak 623	7.11063	10.7008	7.11598	118	Distal Intergenic	40429570	40446723	1r1
Teff 2_peak 625	4.10338	5.46071	2.50376	108	Intron (ENSMUST0000	40440628	40465396	1r1
Teff 2_peak 624	5.74473	8.40906	5.0264	118	Promoter (1-2kb)	40429570	40446723	1r1
Teff 2_peak 616	3.31903	3.7386	1.30114	126	Intron (ENSMUST0000	40325611	40329171	1r2
Teff 2_peak 25398	7.92048	12.4712	8.72434	127	Distal Intergenic	37120523	37125959	2
Teff 2_peak 25397	13.9482	25.8603	21.377	148	Promoter (<=1kb)	37120523	37125959	2
Teff 2_peak 3715	8.94221	16.1221	12.1431	175	Distal Intergenic	19712570	19760053	20ra
Teff 2_peak 41163	5.97426	8.41633	5.0264	186	Intron (ENSMUST0000	100465708	100486385	20rb
Teff 2_peak 41164	5.74473	8.40906	5.0264	170	Intron (ENSMUST0000	100465708	100486385	20rb
Teff 2_peak 37036	6.44812	9.64692	6.19689	133	Intron (ENSMUST0000	125603537	125633570	21r
Teff 2_peak 5566	4.92405	6.9017	3.72503	120	Distal Intergenic	118204942	118210047	22
Teff 2_peak 5567	6.63807	9.71386	6.24177	112	Distal Intergenic	118204942	118210047	22
Teff 2_peak 29576	6.84411	12.6561	8.90588	138	Distal Intergenic	135728172	135752140	22ra1
Teff 2_peak 3712	5.31046	7.1641	3.94449	247	Distal Intergenic	19621998	19634681	22ra2
Teff 2_peak 33546	8.20485	13.2458	9.43183	133	Intron (ENSMUST0000	67422932	67491855	23r
Teff 2_peak 33547	6.5654	9.97402	6.43068	160	Intron (ENSMUST0000	67422932	67491855	23r
Teff 2_peak 38701	5.64773	8.82844	5.41566	106	Intron (ENSMUST0000	84041769	84042540	27ra
Teff 2_peak 21980	8.94221	16.1221	12.1431	116	Promoter (2-3kb)	11642807	11693191	2ra
Teff 2_peak 6698	5.74473	8.40906	5.0264	110	Distal Intergenic	54265303	54267277	3
Teff 2_peak 31914	8.39674	13.6699	9.83431	140	Intron (ENSMUST0000	123480401	123489489	31
Teff 2_peak 11911	6.95506	11.272	7.64474	415	Intron (ENSMUST0000	112525846	112532344	31ra
Teff 2_peak 21233	4.10338	5.46071	2.50376	101	Distal Intergenic	29951816	29952813	33
Teff 2_peak 39127	3.76453	4.61687	1.89299	226	Promoter (<=1kb)	110755525	110805924	34
Teff 2_peak 6683	11.7062	23.7197	19.3462	153	Distal Intergenic	53612460	53618669	4
Teff 2_peak 6681	3.96024	5.07784	2.28876	89	Intron (ENSMUST0000	53602982	53617224	4
Teff 2_peak 6682	5.56489	7.64554	4.39188	151	Promoter (<=1kb)	53602982	53617224	4
Teff 2_peak 24886	3.31903	3.7386	1.30114	47	Distal Intergenic	7573182	7613760	7
Teff 2_peak 24887	6.5654	9.97402	6.43068	124	Distal Intergenic	7573182	7613760	7
Teff 2_peak 24885	4.92405	6.9017	3.72503	102	Intron (ENSMUST0000	7573182	7613760	7
Teff 2_peak 14147	3.28194	4.09582	1.41255	89	Intron (ENSMUST0000	9516409	9530176	7r
Teff 2_peak 14146	13.9515	25.8697	21.377	140	Intron (ENSMUST0000	9511898	9529766	7r
Teff 2_peak 14145	6.63807	9.71386	6.24177	108	Intron (ENSMUST0000	9511898	9529766	7r
Teff 2_peak 10937	5.48147	7.48443	4.24006	110	Intron (ENSMUST0000	56479277	56482246	9
Teff 2_peak 16334	4.83609	6.65819	3.594	171	Intron (ENSMUST0000	36694038	36726741	ldr1
Teff 2_peak 39853	5.74473	8.40906	5.0264	145	Promoter (<=1kb)	21377126	21405090	f3
Teff 2_peak 39854	4.51743	5.8824	2.89265	142	Promoter (1-2kb)	21384218	21388030	f3
Teff 2_peak 5092	4.10338	5.46071	2.50376	107	Downstream (1-2kb)	95387667	95392967	Socs2
Teff 2_peak 19113	7.11063	10.7008	7.11598	103	Distal Intergenic	87107679	87137839	Socs5
Teff 2_peak 19114	5.33286	7.48319	4.23909	127	Distal Intergenic	87107679	87137839	Socs5
Teff 2_peak 20822	10.5407	17.8476	13.755	160	Intron (ENSMUST0000	88665224	88758491	Socs6
Teff 2_peak 20820	3.98284	4.81771	2.04745	210	Intron (ENSMUST0000	88665224	88758491	Socs6
Teff 2_peak 20821	6.02325	8.603	5.19669	103	Promoter (1-2kb)	88665224	88758491	Socs6

Table S6: Narrow peaks ChIPseeker annotation of HDAC8 in Teff cells (3)

name	signalValue	⁻ log10pvalue	⁻ log10qvalue	peak_summit	annotation	geneStart	geneEnd	geneName
Teff_3_peak_7464	7.05578	11.6449	8.1365	110	Distal Intergenic	82176657	82305690	Ccl1
Teff_3_peak_7465	5.67971	7.87313	4.72643	154	Distal Intergenic	82176657	82305690	Ccl1
Teff_3_peak_7462	5.67971	7.87313	4.72643	75	Intron (ENSMUST000	82176659	82179812	Ccl1
Teff_3_peak_7463	13.2276	25.2647	21.1312	122	Intron (ENSMUST000	82176659	82179812	Ccl1
Teff_3_peak_7460	5.82851	8.65643	5.39801	90	Promoter (2-3kb)	82057823	82062955	Ccl11
Teff_3_peak_40601	4.96975	6.57871	3.52008	72	Distal Intergenic	94810453	94812036	Ccl17
Teff_3_peak_1401	6.38967	9.21819	5.92099	141	Distal Intergenic	83116766	83119166	Ccl20
Teff_3_peak_1402	7.15447	11.2639	7.81453	89	Distal Intergenic	83116766	83119166	Ccl20
Teff_3_peak_1403	4.40986	6.4949	3.4655	141	Distal Intergenic	83116793	83119167	Ccl20
Teff_3_peak_1404	6.05378	8.89083	5.62235	121	Distal Intergenic	83116793	83119167	Ccl20
Teff_3_peak_40599	12.2732	22.9215	18.8843	134	Distal Intergenic	94745590	94751699	Ccl22
Teff_3_peak_38940	11.4124	19.8174	15.8785	142	Intron (ENSMUST000	4349588	4357993	Ccl25
Teff_3_peak_12391	5.29103	8.14461	4.91462	73	Intron (ENSMUST000	119649516	119651156	Ccl28
Teff_3_peak_12390	8.81973	15.3473	11.6033	94	Promoter (1-2kb)	119623819	119654359	Ccl28
Teff_3_peak_12392	5.29103	8.14461	4.91462	88	Promoter (1-2kb)	119649516	119651156	Ccl28
Teff_3_peak_7484	5.67971	7.87313	4.72643	75	Promoter (1-2kb)	83647844	83649355	Ccl3
Teff_3_peak_7479	5.50344	7.75885	4.64312	112	Promoter (<=1kb)	83525778	83530518	Ccl5
Teff_3_peak_7482	7.09964	10.6086	7.18149	163	Intron (ENSMUST000	83587882	83593087	Ccl6
Teff_3_peak_7481	4.25978	5.34154	2.48427	84	Promoter (<=1kb)	83587882	83593087	Ccl6
Teff_3_peak_7461	4.40986	6.4949	3.4655	223	Distal Intergenic	82115185	82116799	Ccl8
Teff_3_peak_7480a	9.98583	16.6443	12.8592	155	Distal Intergenic	83575318	83577142	Ccl9
Teff_3_peak_7480b	11.17189	20.902	16.9364	544	Distal Intergenic	83575318	83577142	Ccl9
Teff_3_peak_43696	6.66115	10.2576	6.85385	243	Distal Intergenic	123977243	123978408	Ccr11
Teff_3_peak_43410	4.92235	6.48454	3.4655	116	Intron (ENSMUST000	114491779	114496038	Ccr4
Teff_3_peak_43697	3.52735	4.9183	2.11459	41	Intron (ENSMUST000	124128748	124147699	Ccr5
Teff_3_peak_18293	5.52054	7.80724	4.68311	105	Promoter (<=1kb)	8236043	8256108	Ccr6
Teff_3_peak_18294	7.8096	12.0402	8.49867	99	Promoter (<=1kb)	8236212	8257141	Ccr6
Teff_3_peak_18292	5.82851	8.65643	5.39801	102	Promoter (1-2kb)	8236043	8256108	Ccr6
Teff_3_peak_43588	15.2257	28.6964	24.4616	292	Distal Intergenic	120092114	120094906	Ccr8
Teff_3_peak_36761	5.8412	9.13862	5.86439	90	Distal Intergenic	24743983	24760311	Cd177
Teff_3_peak_12052	4.96975	6.57871	3.52008	80	Distal Intergenic	102693558	102706955	Cd180
Teff_3_peak_12053	9.70021	17.2565	13.4304	95	Distal Intergenic	102693558	102706955	Cd180
Teff_3_peak_26925	8.56535	14.3858	10.7187	97	Downstream (2-3kb)	86995834	86997947	Cd1d1
Teff_3_peak_26924	5.29184	8.14792	4.91462	82	Distal Intergenic	86986551	86989780	Cd1d2
Teff_3_peak_27103	15.8202	30.4076	26.1215	105	Distal Intergenic	101275899	101287939	Cd2
Teff_3_peak_17176	8.46364	13.5312	9.89627	98	Distal Intergenic	45392245	45400312	Cd200
Teff_3_peak_17177	26.475	127.639	121.661	187	Distal Intergenic	45392245	45400312	Cd200
Teff_3_peak_17178	7.93775	13.4733	9.85683	82	Promoter (2-3kb)	45392245	45400312	Cd200
Teff_3_peak_17172	3.52735	4.9183	2.11459	76	Intron (ENSMUST000	44867097	44915840	Cd200r2
Teff_3_peak_17171	6.60413	10.0602	6.67267	89	Promoter (2-3kb)	44867097	44915840	Cd200r2
Teff_3_peak_17170	6.17381	9.86754	6.4921	88	Promoter (1-2kb)	44820728	44839150	Cd200r4
Teff_3_peak_38934	4.96975	6.57871	3.52008	91	Downstream (1-2kb)	3743801	3748927	Cd209a
Teff_3_peak_38939	5.67971	7.87313	4.72643	73	Promoter (<=1kb)	4134098	4137516	Cd209g
Teff_3_peak_21510	4.94256	7.11533	4.02182	94	Intron (ENSMUST000	89197330	89207052	Cd226
Teff_3_peak_21511	5.29184	8.14792	4.91462	82	Intron (ENSMUST000	89206101	89207338	Cd226
Teff_3_peak_3135	9.90619	17.7217	13.8788	119	Intron (ENSMUST000	171579063	171585318	Cd244a
Teff_3_peak_3003	3.56637	4.2029	1.62158	39	Promoter (<=1kb)	165788681	165871153	Cd247
Teff_3_peak_4399	18.4591	36.8848	32.4354	288	Distal Intergenic	43578284	43579197	Cd24a
Teff_3_peak_4400	10.8244	18.9339	15.0531	102	Distal Intergenic	43578284	43579197	Cd24a
Teff_3_peak_35935	8.67514	13.9984	10.3379	89	Distal Intergenic	125232622	125237010	Cd27
Teff_3_peak_986	6.38967	9.21819	5.92099	91	Intron (ENSMUST000	60746358	60773359	Cd28
Teff_3_peak_31037	6.17286	9.86367	6.4921	85	Intron (ENSMUST000	17782016	17835696	Cd36
Teff_3_peak_42080	9.47627	16.3962	12.6294	135	Promoter (<=1kb)	44969572	44980431	Cd3g
Teff_3_peak_35931	8.23619	27.6783	23.4732	124	Promoter (2-3kb)	124867333	124888199	Cd4
Teff_3_peak_24047	30.371	102.493	96.9088	173	Promoter (1-2kb)	102811141	102901665	Cd44
Teff_3_peak_3678	11.4639	21.1961	17.2103	113	Intron (ENSMUST000	195041835	195069114	Cd46
Teff_3_peak_17264	11.3594	19.708	15.7709	279	Distal Intergenic	49866833	49911091	Cd47
Teff_3_peak_17265	9.70021	17.2565	13.4304	106	Distal Intergenic	49866833	49911091	Cd47
Teff_3_peak_17261	3.85241	4.62535	1.99578	101	Intron (ENSMUST000	49855366	49911091	Cd47
Teff_3_peak_17262	7.0547	11.6405	8.1365	100	Promoter (1-2kb)	49866833	49911091	Cd47
Teff_3_peak_17263	6.17381	9.86754	6.4921	89	Promoter (2-3kb)	49866833	49911091	Cd47
Teff_3_peak_27198	8.32644	13.6072	9.9597	100	Distal Intergenic	106759921	106790149	Cd53
Teff_3_peak_2412	5.29184	8.14792	4.91462	96	Distal Intergenic	130419601	130422740	Cd55b
Teff_3_peak_2413	3.85241	4.62535	1.99578	187	Distal Intergenic	130419601	130422740	Cd55b
Teff_3_peak_2414	7.48606	11.558	8.09739	103	Promoter (1-2kb)	130388537	130423009	Cd55b
Teff_3_peak_24073a	4.55565	6.77297	3.70269	69	Intron (ENSMUST000	104095801	104115349	Cd59a
Teff_3_peak_24073b	6.66447	14.475	10.807	271	Intron (ENSMUST000	104095801	104115349	Cd59a
Teff_3_peak_21586	3.52789	4.92049	2.11459	76	Intron (ENSMUST000	10794564	10829856	Cd6
Teff_3_peak_36024	8.8055	15.0582	11.36	203	Distal Intergenic	129267325	129275436	Cd69
Teff_3_peak_8219	7.05578	11.6449	8.1365	212	Promoter (1-2kb)	121036747	121039418	Cd7
Teff_3_peak_7903	3.82208	4.74621	2.11442	129	Downstream (<1kb)	106311344	106314529	Cd79b
Teff_3_peak_38879	13.3223	24.5518	20.4528	98	Intron (ENSMUST000	143052739	143067934	Cd81
Teff_3_peak_17020	7.09964	10.6086	7.18149	79	Intron (ENSMUST000	36603869	36666077	Cd86
Teff_3_peak_17021	8.25516	13.7649	10.1104	126	Intron (ENSMUST000	36603869	36666077	Cd86
Teff_3_peak_17018	7.93775	13.4733	9.85683	216	Intron (ENSMUST000	36603897	36604519	Cd86
Teff_3_peak_17019	6.17381	9.86754	6.4921	188	Intron (ENSMUST000	36603897	36604519	Cd86
Teff_3_peak_34917	3.33058	4.23708	1.63193	80	Exon (ENSMUST000	71322788	71337494	Cd8b1
Teff_3_peak_34916	7.09964	10.6086	7.18149	91	Promoter (<=1kb)	71322788	71337494	Cd8b1
Teff_3_peak_35939	6.51854	11.7023	8.19319	114	Distal Intergenic	125462116	125463024	Cd9
Teff_3_peak_35940	5.10989	7.47587	4.37033	85	Distal Intergenic	125462116	125463024	Cd9
Teff_3_peak_35941	6.74163	9.96522	6.58591	87	Intron (ENSMUST000	125460266	125494791	Cd9
Teff_3_peak_21973	5.67971	7.87313	4.72643	75	Distal Intergenic	34300075	34316677	Fas
Teff_3_peak_2911	4.40986	6.4949	3.4655	77	Distal Intergenic	161780689	161788495	Fas1
Teff_3_peak_2912	8.81973	15.3473	11.6033	123	Distal Intergenic	161780689	161788495	Fas1
Teff_3_peak_2910	6.17286	9.86367	6.4921	104	Downstream (2-3kb)	161781422	161788358	Fas1

Teff 3_peak 5832	5.82851	8.65643	5.39801	170	Distal Intergenic	118441046	118445892	lfng
Teff 3_peak 5833	5.29184	8.14792	4.91462	81	Distal Intergenic	118441046	118445892	lfng
Teff 3_peak 5834	4.25978	5.34154	2.48427	89	Distal Intergenic	118441046	118445892	lfng
Teff 3_peak 5838	13.3223	24.5518	20.4528	132	Distal Intergenic	118502035	118556525	lfngas1
Teff 3_peak 5839	4.40275	5.62147	2.74648	162	Distal Intergenic	118502035	118556525	lfngas1
Teff 3_peak 5840	7.09784	10.8113	7.37327	83	Distal Intergenic	118502035	118556525	lfngas1
Teff 3_peak 5841	9.93949	16.5488	12.7662	97	Distal Intergenic	118502035	118556525	lfngas1
Teff 3_peak 5837	4.95309	6.66767	3.59937	80	Intron (ENSMUST000	118502035	118555352	lfngas1
Teff 3_peak 5835	15.8731	31.5738	27.2616	92	Intron (ENSMUST000	118502035	118555352	lfngas1
Teff 3_peak 5836	4.40986	6.4949	3.4655	85	Intron (ENSMUST000	118502035	118555352	lfngas1
Teff 3_peak 2417	13.3223	24.5518	20.4528	162	Distal Intergenic	131019845	131024974	10
Teff 3_peak 18006	5.67971	7.87313	4.72643	112	Intron (ENSMUST000	91406444	91414632	10rb
Teff 3_peak 26617	5.29184	8.14792	4.91462	115	Distal Intergenic	68690644	68698547	12a
Teff 3_peak 26618	4.99586	7.11293	4.0208	88	Distal Intergenic	68690644	68698547	12a
Teff 3_peak 26619a	4.94256	7.11533	4.02182	101	Distal Intergenic	68694021	68698547	12a
Teff 3_peak 26619b	14.1993	26.3307	22.1625	282	Distal Intergenic	68694021	68698547	12a
Teff 3_peak 34868	4.95309	6.66767	3.59937	145	Intron (ENSMUST000	67292018	67376188	12rb2
Teff 3_peak 34867	3.52789	4.92049	2.11459	22	Intron (ENSMUST000	67291318	67339694	12rb2
Teff 3_peak 6955	6.82605	10.7251	7.29485	86	Downstream (1-2kb)	53631324	53634702	13
Teff 3_peak 44227	5.29103	8.14461	4.91462	81	Intron (ENSMUST000	36112110	36171259	13ra1
Teff 3_peak 44228	6.05378	8.89083	5.62235	96	Intron (ENSMUST000	36112110	36171259	13ra1
Teff 3_peak 45287	17.6395	35.9109	31.4793	176	Distal Intergenic	147383478	147403832	13ra2
Teff 3_peak 45288	6.17286	9.86367	6.4921	85	Intron (ENSMUST000	147383478	147403832	13ra2
Teff 3_peak 22697	6.17381	9.86754	6.4921	86	Distal Intergenic	11705290	11734317	15ra
Teff 3_peak 22698	4.96975	6.57871	3.52008	84	Intron (ENSMUST000	11705848	11733249	15ra
Teff 3_peak 37834	6.17381	9.86754	6.4921	80	Exon (ENSMUST0000	83649576	83655325	16
Teff 3_peak 37838	5.10989	7.47587	4.37033	91	Promoter (1-2kb)	83722510	83739937	16
Teff 3_peak 270	6.17381	9.86754	6.4921	205	Distal Intergenic	20730905	20734496	17a
Teff 3_peak 12765	5.29184	8.14792	4.91462	89	Intron (ENSMUST000	27087765	27101491	17rd
Teff 3_peak 12766	5.99575	9.198	5.92099	84	Promoter (1-2kb)	27087765	27101491	17rd
Teff 3_peak 42220	5.67971	7.87313	4.72643	82	Distal Intergenic	50575273	50581837	18
Teff 3_peak 38106	3.50663	4.83586	2.11459	37	Promoter (<=1kb)	102015315	102018690	18bp
Teff 3_peak 642	4.99071	6.59507	3.53514	73	Intron (ENSMUST000	40466006	40500854	18r1
Teff 3_peak 644	4.99586	7.11293	4.0208	146	Intron (ENSMUST000	40515362	40551705	18rap
Teff 3_peak 645	5.82851	8.65643	5.39801	128	Intron (ENSMUST000	40515362	40551705	18rap
Teff 3_peak 643	4.25978	5.34154	2.48427	88	Intron (ENSMUST000	40515362	40551705	18rap
Teff 3_peak 22890	5.67971	7.87313	4.72643	80	Distal Intergenic	24291196	24293820	1f10
Teff 3_peak 637	10.9465	19.3181	15.4007	138	Distal Intergenic	40225080	40317257	1r1
Teff 3_peak 638	10.2111	17.2399	13.4304	81	Distal Intergenic	40225080	40317257	1r1
Teff 3_peak 639	11.657	20.7773	16.8176	155	Intron (ENSMUST000	40266657	40277178	1r1
Teff 3_peak 633a	15.3909	29.1494	24.9098	127	Distal Intergenic	40074079	40112136	1r2
Teff 3_peak 633b	26.5337	57.3123	52.4599	554	Distal Intergenic	40074079	40112136	1r2
Teff 3_peak 634	4.96975	6.57871	3.52008	92	Intron (ENSMUST000	40084698	40125231	1r2
Teff 3_peak 635	3.52735	4.9183	2.11459	70	Promoter (2-3kb)	40084698	40125231	1r2
Teff 3_peak 16826	9.65268	18.2254	14.3607	91	Distal Intergenic	26581704	26725264	1rap
Teff 3_peak 16827	7.4938	11.9096	8.38827	102	Intron (ENSMUST000	26624156	26715068	1rap
Teff 3_peak 16828	6.17381	9.86754	6.4921	90	Intron (ENSMUST000	26722434	26730117	1rap
Teff 3_peak 16829	4.99586	7.11293	4.0208	81	Intron (ENSMUST000	26722434	26730117	1rap
Teff 3_peak 16830	5.29184	8.14792	4.91462	109	Intron (ENSMUST000	26727042	26728228	1rap
Teff 3_peak 44721	6.66115	10.2576	6.85385	111	Distal Intergenic	86769118	88115645	1rap1
Teff 3_peak 44718	5.29184	8.14792	4.91462	145	Intron (ENSMUST000	86747242	87890235	1rap1
Teff 3_peak 44719	16.6529	32.4056	28.0653	176	Intron (ENSMUST000	86747242	87890235	1rap1
Teff 3_peak 45180	5.29184	8.14792	4.91462	103	Distal Intergenic	137570608	138846946	1rap2
Teff 3_peak 641	11.236	19.3773	15.4563	122	Distal Intergenic	40429570	40446723	1r1
Teff 3_peak 22891	8.98884	14.5141	10.8433	144	Distal Intergenic	24345348	24346354	1rn
Teff 3_peak 26089	19.0626	38.9834	34.4849	127	Distal Intergenic	37120523	37125959	2
Teff 3_peak 26088	9.70021	17.2565	13.4304	95	Promoter (<=1kb)	37120523	37125959	2
Teff 3_peak 3987	7.70481	12.4996	8.93984	127	Distal Intergenic	19712570	19760053	20ra
Teff 3_peak 3988	3.52735	4.9183	2.11459	120	Distal Intergenic	19712570	19760053	20ra
Teff 3_peak 30427	11.0095	21.4816	17.474	107	Distal Intergenic	135728172	135752140	22ra1
Teff 3_peak 3983	24.6915	53.9818	49.1824	276	Distal Intergenic	19621998	19634681	22ra2
Teff 3_peak 34871	9.7017	17.2626	13.4304	113	Intron (ENSMUST000	67422932	67491855	23r
Teff 3_peak 38554	5.99008	8.44561	5.20726	187	Promoter (1-2kb)	126589010	126594941	27
Teff 3_peak 22695	6.58765	10.0385	6.65643	108	Distal Intergenic	11642807	11693193	2ra
Teff 3_peak 22696	9.11469	14.9493	11.2708	192	Promoter (2-3kb)	11642807	11693193	2ra
Teff 3_peak 15838	3.85241	4.62535	1.99578	133	Distal Intergenic	78479256	78495271	2rb
Teff 3_peak 6965	6.17381	9.86754	6.4921	80	Distal Intergenic	54265303	54267277	3
Teff 3_peak 6966	5.29184	8.14792	4.91462	80	Promoter (1-2kb)	54265303	54267277	3
Teff 3_peak 33090	5.70619	7.92666	4.77616	78	Intron (ENSMUST000	123480401	123489489	31
Teff 3_peak 12248	7.05578	11.6449	8.1365	105	Intron (ENSMUST000	112522795	112580662	31ra
Teff 3_peak 12247	6.86222	10.2574	6.85385	80	Intron (ENSMUST000	112523557	112562074	31ra
Teff 3_peak 21910	3.52789	4.92049	2.11459	79	Distal Intergenic	29951816	29952813	33
Teff 3_peak 40880	7.70481	12.4996	8.93984	95	Intron (ENSMUST000	110755236	110790888	34
Teff 3_peak 6954	21.1279	46.6864	42.0369	316	Distal Intergenic	53612460	53618669	4
Teff 3_peak 25565	5.29184	8.14792	4.91462	103	Distal Intergenic	7573182	7613760	7
Teff 3_peak 25566	6.17381	9.86754	6.4921	80	Distal Intergenic	7573182	7613760	7
Teff 3_peak 14676	5.29103	8.14461	4.91462	100	Intron (ENSMUST000	9516409	9530176	7r
Teff 3_peak 14675	7.0547	11.6405	8.1365	99	Intron (ENSMUST000	9511898	9529766	7r
Teff 3_peak 14674	6.66115	10.2576	6.85385	115	Intron (ENSMUST000	9511898	9529766	7r
Teff 3_peak 11239	4.8603	6.72367	3.65433	72	Downstream (1-2kb)	56479277	56482246	9
Teff 3_peak 16580	6.09765	8.96271	5.69345	105	Distal Intergenic	10782240	10785536	Socs1
Teff 3_peak 16581	12.0694	21.3279	17.3227	94	Distal Intergenic	10782240	10785536	Socs1
Teff 3_peak 16579	5.54714	7.61096	4.50306	122	Intron (ENSMUST000	10782240	10785536	Socs1
Teff 3_peak 21504	6.66115	10.2576	6.85385	104	Intron (ENSMUST000	88665224	88758491	Socs6

Table S7: Narrow peaks ChIPseeker annotation of HDAC8 in Treg cells (1)

name	signalValue	'-log10pvalue	'-log10qvalue	peak summit	annotation	geneStart	geneEnd	geneName
Treg_1_peak_12060	13.192	23.8427	19.8383	160	Distal Intergenic	82176657	82305690	Ccl1
Treg_1_peak_12057	6.89044	10.3071	7.07804	210	Intron (ENSMUST000	82176657	82305690	Ccl1
Treg_1_peak_12058	3.08117	3.58522	1.34861	100	Intron (ENSMUST000	82176657	82305690	Ccl1
Treg_1_peak_12056	4.74975	6.43314	3.57669	117	Intron (ENSMUST000	82176657	82305690	Ccl1
Treg_1_peak_12053	8.47322	13.5001	10.0067	199	Intron (ENSMUST000	82176659	82179812	Ccl1
Treg_1_peak_12054	26.19	56.4623	51.6429	212	Intron (ENSMUST000	82176659	82179812	Ccl1
Treg_1_peak_12055	5.54138	7.86	4.82256	151	Intron (ENSMUST000	82176659	82179812	Ccl1
Treg_1_peak_12052	4.65598	6.20215	3.43047	100	Promoter (<=1kb)	82176657	82179812	Ccl1
Treg_1_peak_12059	7.70293	11.9322	8.5491	173	Promoter (1-2kb)	82176657	82305690	Ccl1
Treg_1_peak_12048	3.95813	5.07252	2.42876	120	Distal Intergenic	82057823	82062955	Ccl11
Treg_1_peak_12049	3.1665	3.78996	1.3917	99	Distal Intergenic	82057823	82062955	Ccl11
Treg_1_peak_12050	6.26404	9.03921	5.90404	126	Distal Intergenic	82057823	82062955	Ccl11
Treg_1_peak_12046	4.6822	6.26545	3.49061	120	Intron (ENSMUST000	82035571	82037453	Ccl2
Treg_1_peak_2292	3.95813	5.07252	2.42876	158	Distal Intergenic	83116793	83119167	Ccl20
Treg_1_peak_2293	5.39205	7.49389	4.54135	174	Distal Intergenic	83116793	83119167	Ccl20
Treg_1_peak_65213a	5.45622	7.49968	4.54589	132	Distal Intergenic	94745590	94751699	Ccl22
Treg_1_peak_65213b	5.58271	7.68039	4.71114	492	Distal Intergenic	94745590	94751699	Ccl22
Treg_1_peak_53662	4.38483	5.49927	2.81361	182	Distal Intergenic	135570580	135573049	Ccl24
Treg_1_peak_53661	4.91827	6.6116	3.75113	119	Promoter (<=1kb)	135570580	135573049	Ccl24
Treg_1_peak_62625	6.93264	10.4055	7.14268	204	Promoter (1-2kb)	4332259	4334807	Ccl25
Treg_1_peak_20110	5.5248	7.81796	4.82256	121	Promoter (1-2kb)	119623819	119654359	Ccl28
Treg_1_peak_20111	4.40907	5.64739	2.94543	146	Promoter (2-3kb)	119623819	119654359	Ccl28
Treg_1_peak_12086	4.38483	5.49927	2.81361	188	Distal Intergenic	83525778	83530518	Ccl5
Treg_1_peak_12091	9.24352	15.1056	11.5129	161	Intron (ENSMUST000	83587882	83593087	Ccl6
Treg_1_peak_12090	5.54138	7.86	4.82256	125	Promoter (<=1kb)	83588395	83589875	Ccl6
Treg_1_peak_12047	4.75029	6.34321	3.56123	203	Distal Intergenic	82045712	82047525	Ccl7
Treg_1_peak_12051	4.62176	6.12093	3.35997	141	Promoter (<=1kb)	82115185	82116799	Ccl8
Treg_1_peak_12087	5.07187	6.73627	3.85677	183	Distal Intergenic	83575318	83577142	Ccl9
Treg_1_peak_12088	6.97382	10.4549	7.18992	150	Distal Intergenic	83575318	83577142	Ccl9
Treg_1_peak_70077	6.93264	10.4055	7.14268	114	Distal Intergenic	123977243	123978408	Ccr11
Treg_1_peak_70078	15.6601	31.0509	26.8041	199	Distal Intergenic	123977243	123978408	Ccr11
Treg_1_peak_70079	3.95813	5.07252	2.42876	183	Distal Intergenic	124101950	124113557	Ccr2
Treg_1_peak_70080	3.95813	5.07252	2.42876	141	Distal Intergenic	124101950	124113557	Ccr2
Treg_1_peak_69689	5.78315	8.45152	5.38751	134	Distal Intergenic	114491779	114496038	Ccr4
Treg_1_peak_69690	5.81222	8.12127	5.0776	151	Promoter (<=1kb)	114490316	114496562	Ccr4
Treg_1_peak_29260	4.62176	6.12093	3.35997	167	Promoter (<=1kb)	8236043	8256108	Ccr6
Treg_1_peak_12554	3.48778	4.38374	1.95309	104	Distal Intergenic	99144196	99155077	Ccr7
Treg_1_peak_69926	4.52563	5.9889	3.27461	215	Distal Intergenic	120092114	120094906	Ccr8
Treg_1_peak_70074	3.95813	5.07252	2.42876	235	Intron (ENSMUST000	123774540	123783457	Ccr9
Treg_1_peak_70073	5.80591	8.48822	5.41921	145	Promoter (<=1kb)	123774540	123783457	Ccr9
Treg_1_peak_68636	4.62176	6.12093	3.35997	76	Distal Intergenic	78615546	78716253	Cd109
Treg_1_peak_68637	6.16235	8.9243	5.81442	192	Distal Intergenic	78615546	78716253	Cd109
Treg_1_peak_68638	5.5248	7.81796	4.82256	164	Distal Intergenic	78615546	78716253	Cd109
Treg_1_peak_32774	5.31504	7.17252	4.27037	112	Distal Intergenic	36725871	36726738	Cd14
Treg_1_peak_62482	5.02534	14.3214	10.771	138	Promoter (2-3kb)	140218541	140230982	Cd1631
Treg_1_peak_59078	4.40907	5.64739	2.94543	125	Distal Intergenic	24743983	24760311	Cd177
Treg_1_peak_59076	8.136	14.7988	11.2302	187	Downstream (1-2kb)	24745127	24750821	Cd177
Treg_1_peak_59077	4.17919	5.66768	2.96525	211	Promoter (1-2kb)	24745127	24750821	Cd177
Treg_1_peak_19630	10.0344	17.9375	14.1933	149	Distal Intergenic	102693558	102706955	Cd180
Treg_1_peak_19631	9.24352	15.1056	11.5129	153	Intron (ENSMUST000	102693611	102739504	Cd180
Treg_1_peak_62059	4.22248	5.33598	2.6712	149	Promoter (1-2kb)	126408451	126414889	Cd19
Treg_1_peak_43525	4.74975	6.43314	3.57669	126	Distal Intergenic	86986551	86989780	Cd1d2
Treg_1_peak_43526	7.70293	11.9322	8.5491	159	Distal Intergenic	86986551	86989780	Cd1d2
Treg_1_peak_43527	4.74975	6.43314	3.57669	171	Distal Intergenic	86986551	86989780	Cd1d2
Treg_1_peak_27595	5.94666	15.505	11.9005	200	Distal Intergenic	45392245	45400312	Cd200
Treg_1_peak_27596	6.89044	10.3071	7.07804	130	Downstream (1-2kb)	45392245	45400312	Cd200
Treg_1_peak_27597	8.76966	14.3242	10.771	188	Intron (ENSMUST000	45392245	45400312	Cd200
Treg_1_peak_27598	7.70293	11.9322	8.5491	369	Promoter (2-3kb)	45392245	45400312	Cd200
Treg_1_peak_27592	4.62176	6.12093	3.35997	216	Distal Intergenic	44943678	44964682	Cd200r3
Treg_1_peak_27593	5.2781	7.39534	4.48065	208	Distal Intergenic	44965254	44966854	Cd200r3
Treg_1_peak_62606	7.12463	10.8796	7.56521	129	Downstream (1-2kb)	3743801	3748927	Cd209a
Treg_1_peak_62613	3.08117	3.58522	1.34861	81	Distal Intergenic	3918677	3926813	Cd209b
Treg_1_peak_62614	3.08117	3.58522	1.34861	226	Distal Intergenic	3918677	3926813	Cd209b
Treg_1_peak_62615	6.333	9.34439	6.16031	137	Distal Intergenic	3917655	3926844	Cd209b
Treg_1_peak_62610	8.70788	14.0823	10.5478	162	Distal Intergenic	3871824	3878555	Cd209d
Treg_1_peak_62611	4.74975	6.43314	3.57669	214	Distal Intergenic	3871824	3878555	Cd209d
Treg_1_peak_62612	5.54138	7.86	4.82256	179	Distal Intergenic	3871824	3878555	Cd209d
Treg_1_peak_62608	4.62176	6.12093	3.35997	119	Distal Intergenic	3847965	3854309	Cd209e
Treg_1_peak_62609	7.91625	12.4603	9.03111	167	Distal Intergenic	3847965	3854309	Cd209e
Treg_1_peak_62607	5.54138	7.86	4.82256	110	Intron (ENSMUST000	3847965	3854309	Cd209e
Treg_1_peak_62621	6.06246	8.68979	5.61559	134	Distal Intergenic	4134652	4137707	Cd209g
Treg_1_peak_34310	3.95813	5.07252	2.42876	219	Intron (ENSMUST000	89206101	89207338	Cd226
Treg_1_peak_5099	7.51685	11.6125	8.26253	159	Intron (ENSMUST000	171579063	171585318	Cd244a
Treg_1_peak_4894	8.37406	13.2159	9.74736	127	Intron (ENSMUST000	165788765	165870249	Cd247
Treg_1_peak_4893	5.01123	6.63059	3.75453	114	Promoter (<=1kb)	165788681	165871153	Cd247
Treg_1_peak_7085	5.37988	7.55887	4.60357	387	Distal Intergenic	43578284	43579197	Cd24a
Treg_1_peak_7086	4.62176	6.12093	3.35997	260	Distal Intergenic	43578284	43579197	Cd24a
Treg_1_peak_68006	6.20798	9.03363	5.90404	192	Distal Intergenic	58535576	58537471	Cd276
Treg_1_peak_30215	7.12463	10.8796	7.56521	150	Distal Intergenic	42792952	42799888	Cd2ap
Treg_1_peak_30218	13.8653	25.3877	21.3241	171	Distal Intergenic	42816264	42876665	Cd2ap
Treg_1_peak_30219	6.61086	9.82156	6.61457	119	Distal Intergenic	42816264	42876665	Cd2ap
Treg_1_peak_30220	7.70293	11.9322	8.5491	157	Distal Intergenic	42816264	42876665	Cd2ap
Treg_1_peak_30216	11.5544	20.1201	16.2607	181	Intron (ENSMUST000	42825421	42831030	Cd2ap
Treg_1_peak_30217	4.62176	6.12093	3.35997	113	Intron (ENSMUST000	42792951	42876389	Cd2ap
Treg_1_peak_13085	7.8745	12.1733	8.77774	154	Distal Intergenic	114890041	114904654	Cd300a
Treg_1_peak_13086	9.24352	15.1056	11.5129	146	Distal Intergenic	114890041	114904654	Cd300a

Treg_1_peak_13089	4.62176	6.12093	3.35997	124	Downstream (<1kb)	114982274	114989922	Cd300ld
Treg_1_peak_13088	4.40907	5.64739	2.94543	139	Downstream (1-2kb)	114982274	114989922	Cd300ld
Treg_1_peak_13090	6.26404	9.03921	5.90404	414	Promoter (<=1kb)	114982274	114989922	Cd300ld
Treg_1_peak_13097	3.75842	4.42484	1.96438	117	Intron (ENSMUST000	115120357	115126791	Cd300lf
Treg_1_peak_13098	5.40173	7.51681	4.56243	192	Intron (ENSMUST000	115120357	115126791	Cd300lf
Treg_1_peak_13099	5.63764	7.8123	4.82256	154	Intron (ENSMUST000	115120357	115126791	Cd300lf
Treg_1_peak_13096	3.85147	4.81413	2.28385	94	Intron (ENSMUST000	115120357	115126791	Cd300lf
Treg_1_peak_13102	8.68183	14.0155	10.5057	165	Promoter (<=1kb)	115118848	115133991	Cd300lf
Treg_1_peak_13103	11.64	20.3281	16.4631	139	Promoter (<=1kb)	115116214	115133992	Cd300lf
Treg_1_peak_13101	4.65066	5.96969	3.25562	117	Promoter (2-3kb)	115120261	115126850	Cd300lf
Treg_1_peak_13100	13.9621	25.6451	21.5714	204	Promoter (2-3kb)	115120357	115126791	Cd300lf
Treg_1_peak_37478	3.95813	5.07252	2.42876	229	Intron (ENSMUST000	60251993	60284488	Cd302
Treg_1_peak_59606	8.14325	12.9523	9.94681	195	Promoter (<=1kb)	43528526	43532678	Cd33
Treg_1_peak_59607	3.75842	4.42484	1.96438	151	Promoter (<=1kb)	43524216	43533171	Cd33
Treg_1_peak_5865	5.54138	7.86	4.82256	124	Distal Intergenic	194938819	194961279	Cd34
Treg_1_peak_50170	5.39205	7.49389	4.54135	115	Distal Intergenic	17814675	17888801	Cd36
Treg_1_peak_50169	4.74975	6.43314	3.57669	129	Intron (ENSMUST000	17781690	17849792	Cd36
Treg_1_peak_50168	5.54138	7.86	4.82256	150	Intron (ENSMUST000	17782016	17835696	Cd36
Treg_1_peak_50875	8.14325	12.9523	9.94681	137	Promoter (2-3kb)	43868553	43912375	Cd38
Treg_1_peak_67545	4.74975	6.43314	3.57669	116	Promoter (<=1kb)	44981786	44987339	Cd3d
Treg_1_peak_57756	6.61916	41.3825	36.8683	223	Promoter (2-3kb)	124867333	124888199	Cd4
Treg_1_peak_40489	5.86393	8.86216	5.78445	191	Intron (ENSMUST000	165062676	165066695	Cd40
Treg_1_peak_40487	7.50479	11.5911	8.25233	144	Promoter (1-2kb)	165062676	165066695	Cd40
Treg_1_peak_40488	4.12763	5.1875	2.54049	117	Promoter (2-3kb)	165062676	165066695	Cd40
Treg_1_peak_38656	7.34339	11.1301	7.8015	119	Distal Intergenic	102811141	102901665	Cd44
Treg_1_peak_38657	8.81814	14.1372	10.596	139	Distal Intergenic	102811141	102901665	Cd44
Treg_1_peak_38658	6.16235	8.9243	5.81442	141	Distal Intergenic	102811141	102901665	Cd44
Treg_1_peak_38659	3.85147	4.81413	2.28385	90	Distal Intergenic	102811141	102901665	Cd44
Treg_1_peak_38655	7.22591	13.2958	9.8262	250	Promoter (1-2kb)	102811141	102901665	Cd44
Treg_1_peak_5867	4.31749	5.45752	2.78881	119	Intron (ENSMUST000	195041835	195069114	Cd46
Treg_1_peak_5868	5.54138	7.86	4.82256	150	Intron (ENSMUST000	195041835	195069114	Cd46
Treg_1_peak_5870	4.74975	6.43314	3.57669	184	Promoter (<=1kb)	195041835	195069114	Cd46
Treg_1_peak_5869	4.74975	6.43314	3.57669	130	Promoter (2-3kb)	195041835	195069114	Cd46
Treg_1_peak_27717	10.6489	18.6112	14.8258	213	Distal Intergenic	49866833	49911091	Cd47
Treg_1_peak_27718	5.54138	7.86	4.82256	126	Distal Intergenic	49866833	49911091	Cd47
Treg_1_peak_27716	11.9017	21.5956	17.6791	150	Intron (ENSMUST000	49866833	49911091	Cd47
Treg_1_peak_27715	5.39205	7.49389	4.54135	149	Intron (ENSMUST000	49800533	49911046	Cd47
Treg_1_peak_44059	3.95813	5.07252	2.42876	93	Distal Intergenic	106759921	106790149	Cd53
Treg_1_peak_3941	6.33372	9.6184	6.42472	117	Distal Intergenic	130419601	130422740	Cd55b
Treg_1_peak_3942	5.63764	7.8123	4.82256	111	Distal Intergenic	130419601	130422740	Cd55b
Treg_1_peak_3943	3.85147	4.81413	2.28385	87	Distal Intergenic	130419601	130422740	Cd55b
Treg_1_peak_3944	3.85147	4.81413	2.28385	106	Intron (ENSMUST000	130419601	130422740	Cd55b
Treg_1_peak_3945	6.98398	10.5289	7.25751	142	Intron (ENSMUST000	130419601	130422740	Cd55b
Treg_1_peak_43540	4.18703	5.19897	2.54561	172	Intron (ENSMUST000	87357881	87371073	Cd5l
Treg_1_peak_34494	5.14392	6.93808	4.0439	164	Promoter (<=1kb)	10789341	10830058	Cd6
Treg_1_peak_11669	9.73065	17.8784	14.135	180	Promoter (<=1kb)	69664306	69666062	Cd68
Treg_1_peak_57891	6.2783	9.20629	6.06554	159	Distal Intergenic	129267325	129275436	Cd69
Treg_1_peak_30604	3.1665	3.78996	1.3917	106	Distal Intergenic	57145997	57149777	Cd70
Treg_1_peak_33422	3.75842	4.42484	1.96438	399	Promoter (2-3kb)	60803848	60809253	Cd74
Treg_1_peak_12751	5.09926	6.90493	4.02125	231	Downstream (<1kb)	106311344	106314529	Cd79b
Treg_1_peak_12750	3.19222	3.61568	1.37597	96	Downstream (1-2kb)	106311344	106314529	Cd79b
Treg_1_peak_27440	5.54138	7.86	4.82256	136	Intron (ENSMUST000	38459118	38486447	Cd80
Treg_1_peak_62534	10.864	18.6118	14.8258	186	Intron (ENSMUST000	143052739	143067934	Cd81
Treg_1_peak_62533	6.26404	9.03921	5.90404	129	Intron (ENSMUST000	143052739	143067934	Cd81
Treg_1_peak_17776	3.08117	3.58522	1.34861	259	Distal Intergenic	43784775	43803132	Cd83
Treg_1_peak_5110	6.24294	9.11882	5.9812	150	Distal Intergenic	171839697	171890718	Cd84
Treg_1_peak_5112	5.39205	7.49389	4.54135	124	Intron (ENSMUST000	171840633	171886430	Cd84
Treg_1_peak_27386	14.6969	27.3892	23.262	205	Intron (ENSMUST000	36603869	36666077	Cd86
Treg_1_peak_27384	5.01123	6.63059	3.75453	127	Intron (ENSMUST000	36620713	36642805	Cd86
Treg_1_peak_27387	7.12463	10.8796	7.56521	166	Promoter (1-2kb)	36603869	36666077	Cd86
Treg_1_peak_27385	3.0527	3.52025	1.34861	71	Promoter (2-3kb)	36620713	36642805	Cd86
Treg_1_peak_56106	6.26404	9.03921	5.90404	136	Exon (ENSMUST000	71322788	71337494	Cd8b1
Treg_1_peak_57767	6.2783	9.20629	6.06554	173	Distal Intergenic	125462116	125463024	Cd9
Treg_1_peak_57768	5.87876	8.28611	5.22734	124	Distal Intergenic	125462116	125463024	Cd9
Treg_1_peak_57769	4.57905	6.02171	3.30528	104	Distal Intergenic	125462116	125463024	Cd9
Treg_1_peak_57770	5.45622	7.49968	4.54589	153	Intron (ENSMUST000	125460589	125478302	Cd9
Treg_1_peak_40011	6.77133	10.3366	7.10727	146	Distal Intergenic	148436640	148443563	Cd93
Treg_1_peak_35090	4.74975	6.43314	3.57669	128	Distal Intergenic	34300075	34316677	Fas
Treg_1_peak_35089	6.333	9.34439	6.16031	163	Intron (ENSMUST000	34300075	34316677	Fas
Treg_1_peak_4756	4.62176	6.12093	3.35997	138	Promoter (2-3kb)	161780689	161788495	Fasl
Treg_1_peak_3968	3.95813	5.07252	2.42876	125	Distal Intergenic	131019845	131024974	Il10
Treg_1_peak_67550	3.95813	5.07252	2.42876	123	Distal Intergenic	45253840	45269149	Il10ra
Treg_1_peak_46743	7.62573	12.7279	9.28642	128	Intron (ENSMUST000	41699989	41769474	Il11ra1
Treg_1_peak_43044	5.39205	7.49389	4.54135	140	Distal Intergenic	68690644	68698547	Il12a
Treg_1_peak_43045	5.14392	6.93808	4.0439	124	Distal Intergenic	68690644	68698547	Il12a
Treg_1_peak_43047	6.66871	9.92084	6.71096	279	Distal Intergenic	68694021	68698547	Il12a
Treg_1_peak_43048	4.62176	6.12093	3.35997	128	Distal Intergenic	68694021	68698547	Il12a
Treg_1_peak_43046	9.81319	16.275	12.6162	154	Promoter (2-3kb)	68690644	68698547	Il12a
Treg_1_peak_56008	6.333	9.34439	6.16031	211	Intron (ENSMUST000	67292018	67376188	Il12rb2
Treg_1_peak_56009	9.50058	17.0445	13.35	152	Intron (ENSMUST000	67292018	67376188	Il12rb2
Treg_1_peak_56005	5.54138	7.86	4.82256	143	Intron (ENSMUST000	67291318	67339694	Il12rb2
Treg_1_peak_56006	4.38483	5.49927	2.81361	231	Intron (ENSMUST000	67291318	67339694	Il12rb2
Treg_1_peak_56007	5.54138	7.86	4.82256	128	Promoter (2-3kb)	67291318	67339694	Il12rb2
Treg_1_peak_11123	5.88864	11.0129	7.69541	156	Downstream (1-2kb)	53631324	53634702	Il13
Treg_1_peak_70429	5.39205	7.49389	4.54135	191	Intron (ENSMUST000	36112110	36171259	Il13ra1
Treg_1_peak_71230	4.74975	6.43314	3.57669	114	Distal Intergenic	147383478	147403832	Il13ra2
Treg_1_peak_71231	8.70788	14.0823	10.5478	156	Distal Intergenic	147383478	147403832	Il13ra2
Treg_1_peak_64852	11.0828	19.1625	15.347	167	Distal Intergenic	82331914	82344473	Il15

Treg_1_peak_64853	5.01123	6.63059	3.75453	152	Promoter (<=1kb)	82345662	82398627	II15
Treg_1_peak_36218	7.75997	12.0697	8.67583	143	Distal Intergenic	11705290	11734317	II15ra
Treg_1_peak_36219	11.084	21.0945	17.1941	235	Promoter (1-2kb)	11723164	11733968	II15ra
Treg_1_peak_60754	4.73554	6.39728	3.57669	135	Promoter (1-2kb)	83722510	83739937	II16
Treg_1_peak_497	3.1665	3.78996	1.3917	160	Distal Intergenic	20730905	20734496	II17a
Treg_1_peak_498	12.6674	25.3261	21.2737	177	Distal Intergenic	20730905	20734496	II17a
Treg_1_peak_499	5.54138	7.86	4.82256	150	Promoter (1-2kb)	20777679	20779554	II17f
Treg_1_peak_57601	7.70293	11.9322	8.5491	188	Distal Intergenic	120463247	120483729	II17ra
Treg_1_peak_20744	4.74975	6.43314	3.57669	111	Distal Intergenic	27038941	27107286	II17rd
Treg_1_peak_20745	6.93264	10.4055	7.14268	157	Intron (ENSMUST000	27039256	27102509	II17rd
Treg_1_peak_20746	4.74975	6.43314	3.57669	114	Intron (ENSMUST000	27039256	27102509	II17rd
Treg_1_peak_20747	7.12463	10.8796	7.56521	144	Intron (ENSMUST000	27067397	27100976	II17rd
Treg_1_peak_20748	6.61361	9.68484	6.48229	154	Intron (ENSMUST000	27087765	27101491	II17rd
Treg_1_peak_57386	4.75029	6.34321	3.56123	115	Distal Intergenic	113458484	113470758	II17re
Treg_1_peak_57387	4.47476	6.91967	4.03572	124	Promoter (<=1kb)	113466360	113469987	II17re
Treg_1_peak_67764	10.0225	17.1554	13.4511	152	Distal Intergenic	50575273	50581837	II18
Treg_1_peak_3964	5.39205	7.49389	4.54135	123	Distal Intergenic	130932816	130940115	II19
Treg_1_peak_3965	8.14325	12.9523	9.49681	168	Distal Intergenic	130932816	130940115	II19
Treg_1_peak_3966	4.62176	6.12093	3.35997	231	Distal Intergenic	130932816	130940115	II19
Treg_1_peak_3967	6.94508	10.4352	7.1716	280	Distal Intergenic	130932816	130940115	II19
Treg_1_peak_36582	5.80591	8.48822	5.41921	139	Distal Intergenic	24291196	24293820	II1f10
Treg_1_peak_36581	4.62176	6.12093	3.35997	118	Distal Intergenic	24276954	24282432	II1f5
Treg_1_peak_36580	4.62176	6.12093	3.35997	134	Promoter (2-3kb)	24215505	24225525	II1f6
Treg_1_peak_36578	4.74975	6.43314	3.57669	123	Distal Intergenic	24153161	24160519	II1f8
Treg_1_peak_36579	4.74975	6.43314	3.57669	140	Promoter (<=1kb)	24153161	24160519	II1f8
Treg_1_peak_1093	5.54138	7.86	4.82256	177	Distal Intergenic	40225080	40317257	II1r1
Treg_1_peak_1094	4.41584	6.28336	3.50757	139	Distal Intergenic	40225080	40317257	II1r1
Treg_1_peak_1095	7.12463	10.8796	7.56521	166	Distal Intergenic	40225080	40317257	II1r1
Treg_1_peak_1096	3.1665	3.78996	1.3917	115	Distal Intergenic	40225080	40317257	II1r1
Treg_1_peak_1097	5.39205	7.49389	4.54135	237	Intron (ENSMUST000	40225080	40317257	II1r1
Treg_1_peak_1099	6.16235	8.9243	5.81442	146	Intron (ENSMUST000	40266657	40277178	II1r1
Treg_1_peak_1102	7.84787	12.2867	8.88865	168	Intron (ENSMUST000	40266657	40277178	II1r1
Treg_1_peak_1100	4.75029	6.34321	3.56123	157	Intron (ENSMUST000	40266657	40277178	II1r1
Treg_1_peak_1101	5.5248	7.81796	4.82256	95	Intron (ENSMUST000	40266657	40277178	II1r1
Treg_1_peak_1087a	5.65411	7.8411	4.82256	120	Distal Intergenic	40074079	40112136	II1r2
Treg_1_peak_1087b	5.36237	7.34092	4.43196	520	Distal Intergenic	40074079	40112136	II1r2
Treg_1_peak_1088	3.85147	4.81413	2.28385	65	Promoter (2-3kb)	40084698	40125231	II1r2
Treg_1_peak_27079	5.91033	10.6722	7.39786	143	Distal Intergenic	26581704	26725264	II1rap
Treg_1_peak_27080	5.84775	8.22008	5.17329	134	Distal Intergenic	26581704	26725264	II1rap
Treg_1_peak_27081	4.62176	6.12093	3.35997	148	Distal Intergenic	26581704	26725264	II1rap
Treg_1_peak_27082	5.14392	6.93808	4.0439	109	Intron (ENSMUST000	26727042	26728228	II1rap
Treg_1_peak_70793	7.51685	11.6125	8.26253	196	Intron (ENSMUST000	86747242	87890235	II1rap1
Treg_1_peak_70794	11.8744	20.9188	17.0233	217	Intron (ENSMUST000	86747242	87890235	II1rap1
Treg_1_peak_71153	4.62176	6.12093	3.35997	117	Distal Intergenic	137570608	138846946	II1rap2
Treg_1_peak_71154	4.74975	6.43314	3.57669	119	Intron (ENSMUST000	137571019	138506311	II1rap2
Treg_1_peak_1107	3.95813	5.07252	2.42876	126	Intron (ENSMUST000	40440628	40465396	II1r11
Treg_1_peak_1103	3.19222	3.61568	1.37597	117	Intron (ENSMUST000	40324610	40329441	II1r2
Treg_1_peak_42167	5.63764	7.8123	4.82256	158	Distal Intergenic	37120523	37125959	II2
Treg_1_peak_42168	10.4542	17.6518	13.9137	131	Distal Intergenic	37120523	37125959	II2
Treg_1_peak_42166	14.2493	26.3487	22.2482	309	Promoter (<=1kb)	37120523	37125959	II2
Treg_1_peak_3963	5.49351	7.73962	4.76883	164	Distal Intergenic	130906985	130911451	II20
Treg_1_peak_3962	5.70585	7.932	4.89178	113	Promoter (1-2kb)	130906985	130911451	II20
Treg_1_peak_6391	9.39606	15.7258	12.0953	249	Distal Intergenic	19712570	19760053	II20ra
Treg_1_peak_69235	6.333	9.34439	6.16031	147	Intron (ENSMUST000	100465708	100486385	II20rb
Treg_1_peak_69236	7.91625	12.4603	9.03111	395	Promoter (2-3kb)	100465708	100486385	II20rb
Treg_1_peak_9343	4.62176	6.12093	3.35997	108	Distal Intergenic	118204942	118210047	II22
Treg_1_peak_9344	6.6438	9.72451	6.51922	125	Distal Intergenic	118204942	118210047	II22
Treg_1_peak_49290	10.6446	26.5882	22.4837	227	Distal Intergenic	135728172	135752140	II22ra1
Treg_1_peak_49291	11.1654	19.3137	15.4938	126	Intron (ENSMUST000	135728172	135752140	II22ra1
Treg_1_peak_6387	10.5562	19.723	15.8944	220	Distal Intergenic	19621998	19634681	II22ra2
Treg_1_peak_56012	6.89044	10.3071	7.07804	153	Intron (ENSMUST000	67422932	67491855	II23r
Treg_1_peak_56013	9.24352	15.1056	11.5129	164	Intron (ENSMUST000	67422932	67491855	II23r
Treg_1_peak_62061	5.54138	7.86	4.82256	145	Distal Intergenic	126589010	126594941	II27
Treg_1_peak_36217	4.75029	6.34321	3.56123	129	Promoter (2-3kb)	11642807	11693193	II2ra
Treg_1_peak_25544	6.38918	9.4461	6.25977	148	Exon (ENSMUST000	78481324	78493756	II2rb
Treg_1_peak_11144	6.16235	8.9243	5.81442	316	Distal Intergenic	54265303	54267277	II3
Treg_1_peak_11143	4.74975	6.43314	3.57669	163	Promoter (<=1kb)	54265303	54267277	II3
Treg_1_peak_53228	5.39205	7.49389	4.54135	134	Downstream (2-3kb)	123480157	123482101	II31
Treg_1_peak_53230	7.82953	14.2949	10.7518	149	Intron (ENSMUST000	123480401	123489489	II31
Treg_1_peak_19915	3.06961	3.55865	1.34861	283	Intron (ENSMUST000	112525846	112532344	II31ra
Treg_1_peak_19914	11.4008	23.7739	19.7727	446	Intron (ENSMUST000	112525846	112532344	II31ra
Treg_1_peak_34975	4.62176	6.12093	3.35997	210	Distal Intergenic	29925114	29960718	II33
Treg_1_peak_11122	11.5623	25.8014	21.7264	234	Distal Intergenic	53612460	53618669	II4
Treg_1_peak_11120	6.26404	9.03921	5.90404	133	Intron (ENSMUST000	53602982	53617224	II4
Treg_1_peak_11121	6.89044	10.3071	7.07804	161	Promoter (<=1kb)	53602982	53617224	II4
Treg_1_peak_57224	3.75842	4.42484	1.96438	252	Promoter (<=1kb)	106710357	106749037	II5ra
Treg_1_peak_50523	4.74975	6.43314	3.57669	107	Distal Intergenic	30013321	30019839	II6
Treg_1_peak_41238	8.47322	13.5001	10.0067	230	Distal Intergenic	7573182	7613760	II7
Treg_1_peak_41239	4.74975	6.43314	3.57669	110	Distal Intergenic	7573182	7613760	II7
Treg_1_peak_41235	3.1665	3.78996	1.3917	104	Intron (ENSMUST000	7573182	7613760	II7
Treg_1_peak_41236	5.39205	7.49389	4.54135	180	Intron (ENSMUST000	7573182	7613760	II7
Treg_1_peak_41237	4.65598	6.20215	3.43047	147	Intron (ENSMUST000	7573182	7613760	II7
Treg_1_peak_41234	3.85147	4.81413	2.28385	117	Intron (ENSMUST000	7572028	7605864	II7
Treg_1_peak_23685	5.01123	6.63059	3.75453	191	Intron (ENSMUST000	9516409	9530176	II7r
Treg_1_peak_23684	6.16235	8.9243	5.81442	124	Intron (ENSMUST000	9511898	9529766	II7r
Treg_1_peak_26640	4.56032	6.26269	3.48849	153	Distal Intergenic	10782240	10785536	Socs1
Treg_1_peak_8671	6.16235	8.9243	5.81442	200	Distal Intergenic	95387667	95392967	Socs2
Treg_1_peak_8674	5.24951	7.15236	4.25278	127	Exon (ENSMUST000	95387667	95392967	Socs2

Treg_1_peak_8673	10.0344	17.9375	14.1933	151	Intron (ENSMUST000	95387667	95392967	Socs2
Treg_1_peak_8672	5.80591	8.48822	5.41921	142	Promoter (<=1kb)	95387667	95392967	Socs2
Treg_1_peak_31551	7.75255	13.7376	10.2352	179	Distal Intergenic	87107679	87137839	Socs5
Treg_1_peak_31552	6.33372	9.6184	6.42472	130	Distal Intergenic	87107858	87122990	Socs5
Treg_1_peak_34304	10.088	16.9255	13.2351	136	Intron (ENSMUST000	88665224	88758491	Socs6
Treg_1_peak_34303	4.74975	6.43314	3.57669	110	Promoter (<=1kb)	88665224	88758491	Socs6
Treg_1_peak_34302	4.62176	6.12093	3.35997	115	Promoter (1-2kb)	88665224	88758491	Socs6
Treg_1_peak_34308	3.95813	5.07252	2.42876	162	Promoter (1-2kb)	88870765	88927481	Socs6

Table S8: Narrow peaks ChIPseeker annotation of HDAC8 in Treg cells (2)

name	signalValue	'-log10pvalue	'-log10qvalue	peak_summit	annotation	geneStart	geneEnd	geneName
Treg_2_peak_24111	3.69374	5.73445	3.33556	99	Distal Intergenic	82176657	82179812	Ccl1
Treg_2_peak_24112	4.61717	7.516	4.89772	137	Distal Intergenic	82176657	82179812	Ccl1
Treg_2_peak_24113	3.6359	5.41249	3.16527	98	Distal Intergenic	82176657	82179812	Ccl1
Treg_2_peak_24114	3.69374	5.73445	3.33556	97	Distal Intergenic	82176657	82179812	Ccl1
Treg_2_peak_24123	4.54487	7.11231	4.62813	113	Distal Intergenic	82176657	82305690	Ccl1
Treg_2_peak_24124	3.6666	5.57696	3.31807	199	Distal Intergenic	82176657	82305690	Ccl1
Treg_2_peak_24125	4.61717	7.516	4.89772	115	Distal Intergenic	82176657	82305690	Ccl1
Treg_2_peak_24126	6.41655	11.0261	8.13533	104	Distal Intergenic	82176657	82305690	Ccl1
Treg_2_peak_24127	6.15184	8.89942	6.19613	130	Distal Intergenic	82176657	82305690	Ccl1
Treg_2_peak_24120	5.48847	9.07546	6.36882	121	Intron (ENSMUST00000)	82176657	82305690	Ccl1
Treg_2_peak_24119	3.69374	5.73445	3.33556	122	Intron (ENSMUST00000)	82176657	82305690	Ccl1
Treg_2_peak_24118	3.69374	5.73445	3.33556	114	Intron (ENSMUST00000)	82176657	82305690	Ccl1
Treg_2_peak_24116	12.7256	24.9724	21.2937	157	Intron (ENSMUST00000)	82176659	82179812	Ccl1
Treg_2_peak_24117	4.59282	7.37271	4.8659	110	Intron (ENSMUST00000)	82176659	82179812	Ccl1
Treg_2_peak_24115	4.54487	7.11231	4.62813	314	Intron (ENSMUST00000)	82176659	82179812	Ccl1
Treg_2_peak_24121	4.39989	6.45451	4.03544	201	Promoter (<=1kb)	82176657	82305690	Ccl1
Treg_2_peak_24122	8.9794	16.0485	12.7895	174	Promoter (1-2kb)	82176657	82305690	Ccl1
Treg_2_peak_24102	4.61717	7.516	4.89772	209	Distal Intergenic	82057823	82062955	Ccl11
Treg_2_peak_24103	5.5406	9.37639	6.57036	194	Distal Intergenic	82057823	82062955	Ccl11
Treg_2_peak_24104	3.6359	5.41249	3.16527	102	Distal Intergenic	82101845	82103400	Ccl12
Treg_2_peak_129840	7.49823	11.9232	8.93461	146	Promoter (<=1kb)	94810453	94812036	Ccl17
Treg_2_peak_24099	4.48055	6.80003	4.37459	237	Intron (ENSMUST00000)	82035571	82037453	Ccl2
Treg_2_peak_24100	3.59176	5.19719	3.00172	121	Intron (ENSMUST00000)	82035571	82037453	Ccl2
Treg_2_peak_4995	3.69374	5.73445	3.33556	120	Distal Intergenic	83116766	83119166	Ccl20
Treg_2_peak_4996	4.54487	7.11231	4.62813	205	Distal Intergenic	83116766	83119166	Ccl20
Treg_2_peak_129835	6.15984	9.81068	6.96648	121	Distal Intergenic	94745590	94751699	Ccl22
Treg_2_peak_129836	10.9996	19.4911	16.0704	143	Distal Intergenic	94745590	94751699	Ccl22
Treg_2_peak_129837	7.49823	11.9232	8.93461	120	Distal Intergenic	94745590	94751699	Ccl22
Treg_2_peak_106999	2.7703	4.04921	1.90871	242	Distal Intergenic	135570580	135573049	Ccl24
Treg_2_peak_106998	4.39989	6.45451	4.03544	202	Promoter (2-3kb)	135569937	135573049	Ccl24
Treg_2_peak_124388	7.27179	12.6392	9.60486	479	Intron (ENSMUST00000)	4349588	4360020	Ccl25
Treg_2_peak_124387	7.49823	11.9232	8.93461	195	Promoter (1-2kb)	4332259	4334807	Ccl25
Treg_2_peak_39684	5.78926	8.5388	5.90073	109	Intron (ENSMUST00000)	119623819	119654359	Ccl28
Treg_2_peak_39683	5.83196	8.66693	6.00946	139	Promoter (<=1kb)	119623819	119654359	Ccl28
Treg_2_peak_24175	5.5406	9.37639	6.57036	156	Promoter (<=1kb)	83647844	83649355	Ccl3
Treg_2_peak_24101	4.54487	7.11231	4.62813	129	Promoter (<=1kb)	82045712	82047525	Ccl7
Treg_2_peak_24105	3.6359	5.41249	3.16527	107	Distal Intergenic	82115185	82116799	Ccl8
Treg_2_peak_24106	3.69374	5.73445	3.33556	101	Distal Intergenic	82115185	82116799	Ccl8
Treg_2_peak_24107	3.69374	5.73445	3.33556	156	Distal Intergenic	82115185	82116799	Ccl8
Treg_2_peak_24108	4.99882	7.12189	4.62813	204	Distal Intergenic	82115185	82116799	Ccl8
Treg_2_peak_24109	5.45384	8.8909	6.19058	113	Distal Intergenic	82115185	82116799	Ccl8
Treg_2_peak_24110	7.27179	12.6392	9.60486	162	Distal Intergenic	82115185	82116799	Ccl8
Treg_2_peak_24168	4.54487	7.11231	4.62813	84	Distal Intergenic	83575318	83577142	Ccl9
Treg_2_peak_24169	4.4897	6.84221	4.40836	118	Promoter (1-2kb)	83572919	83578636	Ccl9
Treg_2_peak_138512	3.51991	4.88833	2.70632	12	Distal Intergenic	123962124	123968692	Ccr1
Treg_2_peak_138513	3.69374	5.73445	3.33556	84	Distal Intergenic	123962124	123968692	Ccr1
Treg_2_peak_138514	3.69374	5.73445	3.33556	180	Distal Intergenic	123962124	123968692	Ccr1
Treg_2_peak_138515	3.69374	5.73445	3.33556	130	Distal Intergenic	123962124	123968692	Ccr1
Treg_2_peak_138521	4.61717	7.516	4.89772	188	Distal Intergenic	124101950	124113557	Ccr2
Treg_2_peak_138522	5.5406	9.37639	6.57036	734	Distal Intergenic	124101950	124113557	Ccr2
Treg_2_peak_138523	4.99882	7.12189	4.62813	187	Distal Intergenic	124101950	124113557	Ccr2
Treg_2_peak_138524	3.6359	5.41249	3.16527	109	Distal Intergenic	124101950	124113557	Ccr2
Treg_2_peak_138525	3.69374	5.73445	3.33556	106	Promoter (<=1kb)	124105626	124109140	Ccr2
Treg_2_peak_138516	4.99882	7.12189	4.62813	113	Distal Intergenic	124021972	124031689	Ccr3
Treg_2_peak_138517	5.35089	7.32162	4.81655	107	Distal Intergenic	124021972	124031689	Ccr3
Treg_2_peak_138518	4.99882	7.12189	4.62813	125	Distal Intergenic	124021972	124031689	Ccr3
Treg_2_peak_138519	6.46404	11.3035	8.33659	134	Distal Intergenic	124021972	124031689	Ccr3
Treg_2_peak_138520	4.58325	7.31856	4.81351	85	Distal Intergenic	124021972	124031689	Ccr3
Treg_2_peak_138527	10.7753	20.0586	16.5916	167	Distal Intergenic	124128748	124147699	Ccr5
Treg_2_peak_138526	4.61717	7.516	4.89772	136	Promoter (<=1kb)	124126684	124130250	Ccr5
Treg_2_peak_58230	7.27179	12.6392	9.60486	174	Promoter (<=1kb)	8236043	8256108	Ccr6
Treg_2_peak_24904	7.49823	11.9232	8.93461	142	Distal Intergenic	99144196	99155077	Ccr7
Treg_2_peak_24905	3.59176	5.19719	3.00172	154	Distal Intergenic	99144196	99155077	Ccr7
Treg_2_peak_24903	4.37364	6.35102	3.93704	107	Promoter (1-2kb)	99144196	99155077	Ccr7
Treg_2_peak_87666	4.61717	7.516	4.89772	137	Promoter (1-2kb)	100993529	101029556	Cd101
Treg_2_peak_136039	7.38747	13.2885	10.182	490	Distal Intergenic	78615546	78716253	Cd109
Treg_2_peak_65103	3.6359	5.41249	3.16527	125	Distal Intergenic	36725871	36726738	Cd14
Treg_2_peak_87414	3.69374	5.73445	3.33556	123	Intron (ENSMUST00000)	96800155	96814521	Cd160
Treg_2_peak_87413	3.69374	5.73445	3.33556	102	Promoter (<=1kb)	96800155	96814521	Cd160
Treg_2_peak_87412	12.0046	23.8855	20.2454	155	Promoter (2-3kb)	96800155	96814521	Cd160
Treg_2_peak_115068	4.99882	7.12189	4.62813	195	Exon (ENSMUST00000)	124304700	124330527	Cd163
Treg_2_peak_115067	4.61717	7.516	4.89772	114	Promoter (2-3kb)	124304700	124330527	Cd163
Treg_2_peak_124141	6.10727	8.9785	6.27358	128	Intron (ENSMUST00000)	140224943	140228400	Cd163i1
Treg_2_peak_99082	9.0839	17.2866	13.9723	152	Distal Intergenic	133221534	133224242	Cd164i2
Treg_2_peak_117618	5.27987	8.0993	5.46746	134	Distal Intergenic	24743983	24760311	Cd177
Treg_2_peak_38562	4.61717	7.516	4.89772	117	Distal Intergenic	102693558	102706955	Cd180
Treg_2_peak_38564	3.69374	5.73445	3.33556	30	Intron (ENSMUST00000)	102693611	102739504	Cd180
Treg_2_peak_38563	3.6359	5.41249	3.16527	116	Promoter (<=1kb)	102693558	102706955	Cd180
Treg_2_peak_123432	6.6651	10.2696	7.44017	113	Promoter (<=1kb)	126409362	126409796	Cd19
Treg_2_peak_86915	3.59176	5.19719	3.00172	110	Distal Intergenic	86986551	86989780	Cd1d2
Treg_2_peak_86916	3.69374	5.73445	3.33556	98	Distal Intergenic	86986551	86989780	Cd1d2
Treg_2_peak_86917	3.6666	5.57696	3.31807	111	Distal Intergenic	86986551	86989780	Cd1d2
Treg_2_peak_86918	6.36282	10.7362	7.85556	136	Distal Intergenic	86986551	86989780	Cd1d2
Treg_2_peak_87676	3.51991	4.88833	2.70632	275	Distal Intergenic	101275908	101280389	Cd2
Treg_2_peak_87677	4.28398	5.38986	3.16527	165	Distal Intergenic	101275908	101280389	Cd2
Treg_2_peak_87678	6.35351	9.39706	6.59071	122	Promoter (1-2kb)	101275908	101280389	Cd2
Treg_2_peak_54762	13.7718	25.2339	21.5516	202	Distal Intergenic	45392245	45400312	Cd200

Treg_2_peak_54763	6.46404	11.3035	8.33659	136	Distal Intergenic	45392245	45400312	Cd200
Treg_2_peak_54764	5.38764	8.56594	5.92038	107	Downstream (1-2kb)	45392245	45400312	Cd200
Treg_2_peak_54765	21.6616	44.8466	40.604	209	Intron (ENSMUST000000)	45392245	45400312	Cd200
Treg_2_peak_54767	2.7703	4.04921	1.90871	110	Promoter (<=1kb)	45392245	45400312	Cd200
Treg_2_peak_54768	3.69374	5.73445	3.33556	106	Promoter (<=1kb)	45392245	45400312	Cd200
Treg_2_peak_54766	8.33137	13.6223	10.4966	150	Promoter (2-3kb)	45392245	45400312	Cd200
Treg_2_peak_112716	6.6651	10.2696	7.44017	129	Exon (ENSMUST000000)	83671215	83677857	Cd207
Treg_2_peak_112717	4.54487	7.11231	4.62813	112	Promoter (2-3kb)	83671215	83677857	Cd207
Treg_2_peak_10131	7.49823	11.9232	8.93461	160	Intron (ENSMUST000000)	165788765	165870249	Cd247
Treg_2_peak_10132	3.69374	5.73445	3.33556	144	Intron (ENSMUST000000)	165788765	165870249	Cd247
Treg_2_peak_10133	4.61717	7.516	4.89772	116	Intron (ENSMUST000000)	165788765	165870249	Cd247
Treg_2_peak_10138	8.49082	13.5423	10.4274	204	Promoter (<=1kb)	165858216	165861555	Cd247
Treg_2_peak_14385	7.78725	12.1363	9.14491	140	Distal Intergenic	43578284	43579197	Cd24a
Treg_2_peak_134984	3.65138	5.49377	3.2443	109	Downstream (1-2kb)	58535576	58537471	Cd276
Treg_2_peak_3673	24.6074	52.2592	47.8487	170	Intron (ENSMUST000000)	60746358	60773359	Cd28
Treg_2_peak_25628	15.1108	29.9533	26.1103	169	Distal Intergenic	114890041	114904654	Cd300a
Treg_2_peak_25629	4.20636	5.76872	3.36924	113	Intron (ENSMUST000000)	114890294	114893470	Cd300a
Treg_2_peak_25631	3.68967	5.71003	3.33556	192	Distal Intergenic	114956116	114969157	Cd300c
Treg_2_peak_25635	4.61717	7.516	4.89772	137	Intron (ENSMUST000000)	115051917	115062177	Cd300e
Treg_2_peak_25632	4.16569	5.64327	3.33556	155	Promoter (1-2kb)	114982274	114989922	Cd300ld
Treg_2_peak_25633	3.6359	5.41249	3.16527	197	Promoter (2-3kb)	114982274	114989922	Cd300ld
Treg_2_peak_25634	4.61717	7.516	4.89772	117	Promoter (2-3kb)	115031486	115037769	Cd300ld5
Treg_2_peak_25637	5.45384	8.8909	6.19058	127	Intron (ENSMUST000000)	115116214	115133992	Cd300lf
Treg_2_peak_25636	9.22417	17.3445	14.0296	151	Promoter (<=1kb)	115118848	115133991	Cd300lf
Treg_2_peak_74524	3.6666	5.57696	3.31807	112	Intron (ENSMUST000000)	60251993	60284488	Cd302
Treg_2_peak_59452	3.6359	5.41249	3.16527	108	Distal Intergenic	33843426	33848751	Cd320
Treg_2_peak_11845	8.18077	14.5934	11.4246	126	Distal Intergenic	194938819	194961279	Cd34
Treg_2_peak_11846	3.6359	5.41249	3.16527	116	Intron (ENSMUST000000)	194938995	194958550	Cd34
Treg_2_peak_100601	3.69374	5.73445	3.33556	111	Distal Intergenic	17782016	17835696	Cd36
Treg_2_peak_100605	6.36282	10.7362	7.85556	119	Distal Intergenic	17814675	17888801	Cd36
Treg_2_peak_100606	5.24837	7.9747	5.34802	276	Distal Intergenic	17814675	17888801	Cd36
Treg_2_peak_100603	3.6359	5.41249	3.16527	115	Intron (ENSMUST000000)	17781690	17849792	Cd36
Treg_2_peak_100604	3.6359	5.41249	3.16527	96	Intron (ENSMUST000000)	17782367	17888747	Cd36
Treg_2_peak_100602	3.69374	5.73445	3.33556	112	Promoter (1-2kb)	17781690	17849792	Cd36
Treg_2_peak_102022	8.24985	14.967	11.7883	149	Distal Intergenic	43868553	43912375	Cd38
Treg_2_peak_102023	4.54487	7.11231	4.62813	135	Distal Intergenic	43868553	43912375	Cd38
Treg_2_peak_102024	3.69374	5.73445	3.33556	109	Distal Intergenic	43868553	43912375	Cd38
Treg_2_peak_102025	9.23434	17.4062	14.0484	194	Promoter (2-3kb)	43868860	43869740	Cd38
Treg_2_peak_134345	3.69374	5.73445	3.33556	96	Promoter (1-2kb)	44985823	44986421	Cd3d
Treg_2_peak_134346	5.45384	8.8909	6.19058	153	Promoter (1-2kb)	44985952	44986422	Cd3d
Treg_2_peak_134347	5.5406	9.37639	6.57036	121	Distal Intergenic	45003159	45009627	Cd3e
Treg_2_peak_115095	6.04117	15.3112	12.0866	120	Promoter (2-3kb)	124867333	124888199	Cd4
Treg_2_peak_80904	9.16451	15.3628	12.1145	139	Promoter (2-3kb)	165055704	165071000	Cd40
Treg_2_peak_140914	5.5406	9.37639	6.57036	143	Intron (ENSMUST000000)	57212143	57224042	Cd40lg
Treg_2_peak_77113	4.61717	7.516	4.89772	147	Distal Intergenic	102811141	102901665	Cd44
Treg_2_peak_77114	3.69374	5.73445	3.33556	150	Distal Intergenic	102811141	102901665	Cd44
Treg_2_peak_77115	3.69374	5.73445	3.33556	117	Distal Intergenic	102811141	102901665	Cd44
Treg_2_peak_77116	2.7703	4.04921	1.90871	110	Distal Intergenic	102811141	102901665	Cd44
Treg_2_peak_77117	3.69374	5.73445	3.33556	213	Distal Intergenic	102811141	102901665	Cd44
Treg_2_peak_11851	8.72992	14.989	11.8101	318	Promoter (<=1kb)	195036826	195092249	Cd46
Treg_2_peak_11852	4.99882	7.12189	4.62813	130	Promoter (2-3kb)	195036826	195092249	Cd46
Treg_2_peak_55081	3.69374	5.73445	3.33556	107	Distal Intergenic	49866833	49911091	Cd47
Treg_2_peak_55079	3.69374	5.73445	3.33556	102	Intron (ENSMUST000000)	49866833	49911091	Cd47
Treg_2_peak_55076	4.61717	7.516	4.89772	287	Intron (ENSMUST000000)	49800533	49911046	Cd47
Treg_2_peak_55077	4.61717	7.516	4.89772	119	Intron (ENSMUST000000)	49855366	49911091	Cd47
Treg_2_peak_55078	5.5406	9.37639	6.57036	145	Promoter (<=1kb)	49866833	49911091	Cd47
Treg_2_peak_87981	9.1665	17.0087	13.7075	177	Intron (ENSMUST000000)	106759921	106790149	Cd53
Treg_2_peak_87980	4.61717	7.516	4.89772	125	Intron (ENSMUST000000)	106759921	106790149	Cd53
Treg_2_peak_87982	7.38747	13.2885	10.182	144	Promoter (1-2kb)	106759921	106790149	Cd53
Treg_2_peak_8203	20.8284	42.7332	38.5282	173	Distal Intergenic	130419601	130422740	Cd55b
Treg_2_peak_8204	8.18077	14.5934	11.4246	284	Distal Intergenic	130419601	130422740	Cd55b
Treg_2_peak_77182	5.80017	8.57116	5.92547	110	Intron (ENSMUST000000)	104071066	104084820	Cd59b
Treg_2_peak_77183	6.15184	8.89942	6.19613	333	Intron (ENSMUST000000)	104071066	104084820	Cd59b
Treg_2_peak_86933	4.58325	7.31856	4.81351	102	Distal Intergenic	87357881	87371073	Cd5l
Treg_2_peak_86934	7.3332	12.971	9.92589	164	Distal Intergenic	87357881	87371073	Cd5l
Treg_2_peak_68447	4.49888	6.88526	4.45067	148	Exon (ENSMUST000000)	10794564	10829856	Cd6
Treg_2_peak_68446	8.18077	14.5934	11.4246	130	Intron (ENSMUST000000)	10794564	10829856	Cd6
Treg_2_peak_65898	6.76901	10.5978	7.75479	127	Promoter (<=1kb)	50134726	50135600	Cd63-ps
Treg_2_peak_65899	8.79978	15.2657	12.0779	237	Promoter (<=1kb)	50134726	50135600	Cd63-ps
Treg_2_peak_65900	5.5406	9.37639	6.57036	169	Promoter (1-2kb)	50134795	50135511	Cd63-ps
Treg_2_peak_115290	16.5688	34.9863	30.9936	161	Distal Intergenic	129267325	129275436	Cd69
Treg_2_peak_115291	3.69374	5.73445	3.33556	106	Distal Intergenic	129267325	129275436	Cd69
Treg_2_peak_115292	3.6666	5.57696	3.31807	109	Distal Intergenic	129267325	129275436	Cd69
Treg_2_peak_115289	2.69382	3.64824	1.70993	261	Promoter (<=1kb)	129267325	129275436	Cd69
Treg_2_peak_60623	3.69374	5.73445	3.33556	110	Distal Intergenic	57145997	57149777	Cd70
Treg_2_peak_60624	6.15984	9.81068	6.99648	140	Distal Intergenic	57145997	57149777	Cd70
Treg_2_peak_94068	6.46682	9.57675	6.76836	115	Distal Intergenic	43447724	43454628	Cd72
Treg_2_peak_117628	4.35632	6.2848	3.87192	138	Distal Intergenic	24897381	24902197	Cd79a
Treg_2_peak_25187	6.39973	9.51766	6.71009	145	Promoter (<=1kb)	106311341	106314762	Cd79b
Treg_2_peak_54331	3.69374	5.73445	3.33556	136	Intron (ENSMUST000000)	38459118	38486447	Cd80
Treg_2_peak_124255	3.07592	3.57312	1.64459	153	Intron (ENSMUST000000)	143052739	143067934	Cd81
Treg_2_peak_76459	5.68624	7.8863	5.26161	121	Exon (ENSMUST000000)	93419154	93420287	Cd82
Treg_2_peak_76458	6.6651	10.2696	7.44017	155	Intron (ENSMUST000000)	93419154	93420287	Cd82
Treg_2_peak_76460	5.6567	7.84563	5.22151	105	Promoter (<=1kb)	93430127	93463140	Cd82
Treg_2_peak_35112	5.5406	9.37639	6.57036	123	Distal Intergenic	43784775	43803132	Cd83
Treg_2_peak_35113	3.59911	5.2315	3.03527	123	Distal Intergenic	43784775	43803132	Cd83
Treg_2_peak_35114	9.28197	15.1209	11.9376	201	Distal Intergenic	43784775	43803132	Cd83
Treg_2_peak_10496	3.69374	5.73445	3.33556	165	Distal Intergenic	171839697	171890718	Cd84
Treg_2_peak_10497	9.99872	18.6343	15.2353	158	Distal Intergenic	171839697	171890718	Cd84

Treg_2_peak_10498	4.60243	7.4283	4.89772	375	Distal Intergenic	171839697	171890718	Cd84
Treg_2_peak_10499	4.85274	6.70311	4.27939	169	Distal Intergenic	171839697	171890718	Cd84
Treg_2_peak_54242	25.1423	55.9747	51.4976	151	Intron (ENSMUST000000)	36603869	36666077	Cd86
Treg_2_peak_54241	9.16451	15.3628	12.1145	194	Intron (ENSMUST000000)	36620713	36642805	Cd86
Treg_2_peak_54240	4.16569	5.64327	3.33556	150	Intron (ENSMUST000000)	36603897	36604519	Cd86
Treg_2_peak_54243	3.6359	5.41249	3.16527	103	Promoter (<=1kb)	36603869	36666077	Cd86
Treg_2_peak_111871	11.6732	22.1172	18.5566	135	Exon (ENSMUST000000)	71322788	71337494	Cd8b1
Treg_2_peak_111870	3.33255	4.24299	2.08194	74	Promoter (<=1kb)	71322788	71337494	Cd8b1
Treg_2_peak_115110	7.03982	11.5798	8.60681	137	Intron (ENSMUST000000)	125460266	125494791	Cd9
Treg_2_peak_80020	16.8914	32.7027	28.7754	198	Distal Intergenic	148436640	148443563	Cd93
Treg_2_peak_80021	4.54487	7.11231	4.62813	186	Distal Intergenic	148436640	148443563	Cd93
Treg_2_peak_80019	9.99764	17.1409	13.8303	169	Downstream (<1kb)	148436640	148443563	Cd93
Treg_2_peak_54819	5.45384	8.8909	6.19058	121	Distal Intergenic	46035657	46120251	Cd96
Treg_2_peak_54818	4.51736	6.97411	4.53802	111	Intron (ENSMUST000000)	46035657	46120251	Cd96
Treg_2_peak_69872	3.69374	5.73445	3.33556	112	Distal Intergenic	34300075	34316677	Fas
Treg_2_peak_69873	6.46404	11.3035	8.33659	167	Distal Intergenic	34300075	34316677	Fas
Treg_2_peak_69874	3.6359	5.41249	3.16527	94	Distal Intergenic	34300075	34316677	Fas
Treg_2_peak_69871	4.61717	7.516	4.89772	83	Intron (ENSMUST000000)	34300075	34316677	Fas
Treg_2_peak_69869	5.5406	9.37639	6.57036	159	Promoter (1-2kb)	34300075	34316677	Fas
Treg_2_peak_9912	3.69374	5.73445	3.33556	119	Distal Intergenic	161781422	161788358	Fasl
Treg_2_peak_9913	4.61717	7.516	4.89772	120	Distal Intergenic	161781422	161788358	Fasl
Treg_2_peak_9914	5.45384	8.8909	6.19058	131	Promoter (2-3kb)	161780689	161788495	Fasl
Treg_2_peak_18974	3.59176	5.19719	3.00172	112	Distal Intergenic	118441046	118445892	lfng
Treg_2_peak_18975	14.367	28.4773	24.6642	205	Distal Intergenic	118441046	118445892	lfng
Treg_2_peak_18976	3.69374	5.73445	3.33556	108	Distal Intergenic	118441046	118445892	lfng
Treg_2_peak_18977	4.99882	7.12189	4.62813	146	Distal Intergenic	118441046	118445892	lfng
Treg_2_peak_18987	4.61717	7.516	4.89772	129	Distal Intergenic	118502035	118556525	lfngas1
Treg_2_peak_18988	4.45334	6.67838	4.25491	121	Distal Intergenic	118502035	118556525	lfngas1
Treg_2_peak_18989	3.69374	5.73445	3.33556	150	Distal Intergenic	118502035	118556525	lfngas1
Treg_2_peak_18990	30.9051	72.4915	67.7773	166	Distal Intergenic	118502035	118556525	lfngas1
Treg_2_peak_18991	9.99872	18.6343	15.2353	236	Distal Intergenic	118502035	118556525	lfngas1
Treg_2_peak_18985	5.27987	8.0993	5.46746	142	Intron (ENSMUST000000)	118502035	118556525	lfngas1
Treg_2_peak_18986	4.4897	6.84221	4.40836	272	Intron (ENSMUST000000)	118502035	118556525	lfngas1
Treg_2_peak_18984	12.6919	23.2946	19.6948	155	Intron (ENSMUST000000)	118502035	118556525	lfngas1
Treg_2_peak_18983	3.69374	5.73445	3.33556	110	Intron (ENSMUST000000)	118502035	118556525	lfngas1
Treg_2_peak_12912	3.69374	5.73445	3.33556	102	Distal Intergenic	19591949	19610229	lfngr1
Treg_2_peak_12913	2.72692	3.80885	1.81786	59	Distal Intergenic	19591949	19610229	lfngr1
Treg_2_peak_12914	10.7533	19.9563	16.495	136	Distal Intergenic	19605919	19609256	lfngr1
Treg_2_peak_12915	7.76448	12.8063	9.76846	146	Distal Intergenic	19605919	19609256	lfngr1
Treg_2_peak_57647	4.99798	6.6355	4.21298	109	Downstream (1-2kb)	91561323	91565169	lfngr2
Treg_2_peak_57646	6.24064	8.99819	6.29309	119	Promoter (2-3kb)	91547072	91565623	lfngr2
Treg_2_peak_8244	4.54487	7.11231	4.62813	102	Distal Intergenic	131019845	131024974	ll10
Treg_2_peak_8245	3.69374	5.73445	3.33556	96	Distal Intergenic	131019845	131024974	ll10
Treg_2_peak_8246	4.54487	7.11231	4.62813	199	Distal Intergenic	131019845	131024974	ll10
Treg_2_peak_8247	4.4897	6.84221	4.40836	116	Distal Intergenic	131019845	131024974	ll10
Treg_2_peak_8248	4.98095	7.06806	4.62813	111	Distal Intergenic	131019845	131024974	ll10
Treg_2_peak_94026	10.388	18.1473	14.7785	165	Promoter (<=1kb)	41767799	41769474	ll11ra1
Treg_2_peak_85743	4.61717	7.516	4.89772	123	Distal Intergenic	68690644	68698547	ll12a
Treg_2_peak_85744	5.5406	9.37639	6.57036	116	Distal Intergenic	68690644	68698547	ll12a
Treg_2_peak_85746	6.15184	8.89942	6.19613	462	Distal Intergenic	68694021	68698547	ll12a
Treg_2_peak_85745	3.62133	5.33889	3.14027	94	Promoter (2-3kb)	68690644	68698547	ll12a
Treg_2_peak_22154	3.69374	5.73445	3.33556	119	Distal Intergenic	44400063	44414033	ll12b
Treg_2_peak_22152	3.69374	5.73445	3.33556	99	Exon (ENSMUST000001)	44400063	44414033	ll12b
Treg_2_peak_22153	4.61717	7.516	4.89772	118	Intron (ENSMUST000000)	44400063	44414033	ll12b
Treg_2_peak_111628	14.7749	30.6564	26.7723	151	Intron (ENSMUST000000)	67291318	67339694	ll12rb2
Treg_2_peak_111626	7.38747	13.2885	10.182	181	Intron (ENSMUST000000)	67291318	67339694	ll12rb2
Treg_2_peak_111627	3.69374	5.73445	3.33556	138	Intron (ENSMUST000000)	67291318	67339694	ll12rb2
Treg_2_peak_111625	3.69374	5.73445	3.33556	186	Intron (ENSMUST000000)	67291318	67339694	ll12rb2
Treg_2_peak_139991	5.5406	9.37639	6.57036	128	Distal Intergenic	36112110	36171259	ll13ra1
Treg_2_peak_139992	9.99872	18.6343	15.2353	140	Distal Intergenic	36112110	36171259	ll13ra1
Treg_2_peak_139993	3.69374	5.73445	3.33556	110	Intron (ENSMUST000000)	36112110	36171259	ll13ra1
Treg_2_peak_145119	4.65586	6.20186	3.79026	106	Distal Intergenic	147383478	147403832	ll13ra2
Treg_2_peak_145120	7.97318	12.3792	9.37861	121	Distal Intergenic	147383478	147403832	ll13ra2
Treg_2_peak_145121	3.69374	5.73445	3.33556	131	Distal Intergenic	147383478	147403832	ll13ra2
Treg_2_peak_145122	3.69374	5.73445	3.33556	143	Distal Intergenic	147383478	147403832	ll13ra2
Treg_2_peak_145123	3.8449	4.79884	2.62253	109	Distal Intergenic	147383478	147403832	ll13ra2
Treg_2_peak_145124	5.5406	9.37639	6.57036	131	Distal Intergenic	147383478	147403832	ll13ra2
Treg_2_peak_145125	3.69374	5.73445	3.33556	97	Distal Intergenic	147383478	147403832	ll13ra2
Treg_2_peak_145126	5.83196	8.66693	6.00946	138	Distal Intergenic	147383478	147403832	ll13ra2
Treg_2_peak_145127	2.7703	4.04921	1.90871	46	Distal Intergenic	147383478	147403832	ll13ra2
Treg_2_peak_145128	4.61717	7.516	4.89772	107	Distal Intergenic	147383478	147403832	ll13ra2
Treg_2_peak_145130	4.54487	7.11231	4.62813	137	Intron (ENSMUST000000)	147383478	147403832	ll13ra2
Treg_2_peak_145129	2.72692	3.80885	1.81786	112	Promoter (1-2kb)	147383478	147403832	ll13ra2
Treg_2_peak_129177	5.5406	9.37639	6.57036	76	Distal Intergenic	82331914	82344473	ll15
Treg_2_peak_129183	2.72692	3.80885	1.81786	112	Intron (ENSMUST000000)	82345662	82398627	ll15
Treg_2_peak_129179	3.69374	5.73445	3.33556	103	Intron (ENSMUST000000)	82331739	82345683	ll15
Treg_2_peak_129180	2.72692	3.80885	1.81786	127	Intron (ENSMUST000000)	82331739	82345683	ll15
Treg_2_peak_129181	5.5406	9.37639	6.57036	133	Intron (ENSMUST000000)	82331739	82345683	ll15
Treg_2_peak_129182	3.69374	5.73445	3.33556	103	Intron (ENSMUST000000)	82331739	82345683	ll15
Treg_2_peak_129178	3.69374	5.73445	3.33556	99	Intron (ENSMUST000000)	82331914	82344473	ll15
Treg_2_peak_129184	15.5595	30.3521	26.5025	135	Promoter (<=1kb)	82345662	82398627	ll15
Treg_2_peak_71792	3.6359	5.41249	3.16527	196	Promoter (<=1kb)	11718431	11733417	ll15ra
Treg_2_peak_120953	3.6666	5.57696	3.31807	225	Distal Intergenic	83660897	83745726	ll16
Treg_2_peak_120951	8.09799	14.1818	11.045	202	Intron (ENSMUST000000)	83722510	83732407	ll16
Treg_2_peak_120947	5.5406	9.37639	6.57036	203	Promoter (<=1kb)	83649576	83655325	ll16
Treg_2_peak_120952	3.5699	5.09832	2.91222	380	Promoter (2-3kb)	83722510	83732407	ll16
Treg_2_peak_1286	3.69374	5.73445	3.33556	359	Promoter (<=1kb)	20777679	20779554	ll17f
Treg_2_peak_1285	9.08974	16.5931	13.3034	174	Promoter (2-3kb)	20777679	20779554	ll17f
Treg_2_peak_114818	3.59176	5.19719	3.00172	148	Distal Intergenic	120463247	120483729	ll17ra

Treg_2_peak_114819	5.5406	9.37639	6.57036	121	Distal Intergenic	120463247	120483729	II17ra
Treg_2_peak_114820	9.08974	16.5931	13.3034	205	Distal Intergenic	120463247	120483729	II17ra
Treg_2_peak_41166	3.68967	5.71003	3.33556	116	Promoter (<=1kb)	29996471	30000094	II17rb
Treg_2_peak_41167	6.45965	9.36103	6.57036	139	Promoter (2-3kb)	29996199	30008809	II17rb
Treg_2_peak_40973	8.18077	14.5934	11.4246	495	Intron (ENSMUST000000)	27067397	27100976	II17rd
Treg_2_peak_40974	4.99882	7.12189	4.62813	110	Intron (ENSMUST000000)	27067397	27100976	II17rd
Treg_2_peak_40975	4.4897	6.84221	4.40836	203	Intron (ENSMUST000000)	27067397	27100976	II17rd
Treg_2_peak_40976	4.16569	5.64327	3.33556	116	Intron (ENSMUST000000)	27067397	27100976	II17rd
Treg_2_peak_40977	6.28558	10.3563	7.5188	132	Intron (ENSMUST000000)	27087765	27101491	II17rd
Treg_2_peak_40978	10.9077	20.7131	17.2181	148	Promoter (1-2kb)	27087765	27101491	II17rd
Treg_2_peak_114479	3.29576	4.13512	1.99322	32	Distal Intergenic	113458484	113470758	II17re
Treg_2_peak_134606	4.61717	7.516	4.89772	117	Intron (ENSMUST000000)	50554827	50581840	II18
Treg_2_peak_134607	4.61717	7.516	4.89772	246	Promoter (2-3kb)	50556374	50581837	II18
Treg_2_peak_2439	4.54487	7.11231	4.62813	134	Intron (ENSMUST000000)	40466006	40500854	II18r1
Treg_2_peak_2440	4.61717	7.516	4.89772	165	Intron (ENSMUST000000)	40466006	40500854	II18r1
Treg_2_peak_2441	4.54487	7.11231	4.62813	89	Intron (ENSMUST000000)	40466006	40500854	II18r1
Treg_2_peak_2446	3.6359	5.41249	3.16527	139	Distal Intergenic	40541692	40547903	II18rap
Treg_2_peak_2444	3.6359	5.41249	3.16527	153	Exon (ENSMUST000000)	40515448	40526917	II18rap
Treg_2_peak_2442	9.16451	15.3628	12.1145	491	Intron (ENSMUST000000)	40515362	40551705	II18rap
Treg_2_peak_2443	4.54487	7.11231	4.62813	129	Intron (ENSMUST000000)	40515362	40551705	II18rap
Treg_2_peak_2445	3.69374	5.73445	3.33556	102	Promoter (1-2kb)	40541692	40547903	II18rap
Treg_2_peak_8239	5.5406	9.37639	6.57036	388	Distal Intergenic	130932816	130940115	II19
Treg_2_peak_8240	9.1665	17.0087	13.7075	159	Distal Intergenic	130932816	130940115	II19
Treg_2_peak_8241	3.69374	5.73445	3.33556	126	Distal Intergenic	130932816	130940115	II19
Treg_2_peak_8242	4.58325	7.31856	4.81351	123	Distal Intergenic	130932816	130940115	II19
Treg_2_peak_8243	6.42995	11.1022	8.20899	128	Distal Intergenic	130932816	130940115	II19
Treg_2_peak_8237	4.54487	7.11231	4.62813	128	Exon (ENSMUST000000)	130932658	130939241	II19
Treg_2_peak_8744	3.6359	5.41249	3.16527	172	Promoter (<=1kb)	129369897	129375748	II1bos
Treg_2_peak_72630	5.38286	7.47221	4.89772	120	Distal Intergenic	24291196	24293820	II1f10
Treg_2_peak_72628	3.6359	5.41249	3.16527	134	Promoter (<=1kb)	24277282	24281629	II1f5
Treg_2_peak_72619	6.36282	10.7362	7.85556	151	Intron (ENSMUST000000)	24215505	24225525	II1f6
Treg_2_peak_72620	4.99882	7.12189	4.62813	125	Intron (ENSMUST000000)	24215505	24225525	II1f6
Treg_2_peak_72618	3.6666	5.57696	3.31807	108	Promoter (1-2kb)	24215505	24225525	II1f6
Treg_2_peak_72613	6.46404	11.3035	8.33659	239	Distal Intergenic	24153161	24160519	II1f8
Treg_2_peak_72614	5.45384	8.8909	6.19058	207	Distal Intergenic	24153161	24160519	II1f8
Treg_2_peak_72615	6.36282	10.7362	7.85556	151	Distal Intergenic	24153161	24160519	II1f8
Treg_2_peak_72617	5.68243	8.23372	5.6002	186	Distal Intergenic	24153161	24160519	II1f8
Treg_2_peak_72616	4.61717	7.516	4.89772	222	Promoter (<=1kb)	24153161	24160519	II1f8
Treg_2_peak_2421	3.6359	5.41249	3.16527	131	Distal Intergenic	40225080	40317257	II1r1
Treg_2_peak_2422	3.69374	5.73445	3.33556	104	Distal Intergenic	40225080	40317257	II1r1
Treg_2_peak_2423	4.61717	7.516	4.89772	127	Distal Intergenic	40225080	40317257	II1r1
Treg_2_peak_2424	3.69374	5.73445	3.33556	255	Promoter (<=1kb)	40225080	40317257	II1r1
Treg_2_peak_2425	3.68967	5.71003	3.33556	57	Promoter (1-2kb)	40225080	40317257	II1r1
Treg_2_peak_2411	8.3109	15.3245	12.0866	127	Distal Intergenic	40074079	40112136	II1r2
Treg_2_peak_2412	9.53279	15.651	12.4006	178	Promoter (<=1kb)	40074079	40112136	II1r2
Treg_2_peak_2413	5.4999	9.13896	6.42463	128	Promoter (<=1kb)	40084698	40125231	II1r2
Treg_2_peak_53715	6.46404	11.3035	8.33659	213	Distal Intergenic	26581704	26725264	II1rap
Treg_2_peak_53716	3.69374	5.73445	3.33556	123	Intron (ENSMUST000000)	26624156	26715068	II1rap
Treg_2_peak_53717	7.38747	13.2885	10.182	119	Intron (ENSMUST000000)	26624156	26715068	II1rap
Treg_2_peak_53720	3.69374	5.73445	3.33556	94	Intron (ENSMUST000000)	26722434	26730117	II1rap
Treg_2_peak_53718	6.36282	10.7362	7.85556	178	Intron (ENSMUST000000)	26624156	26715068	II1rap
Treg_2_peak_53719	5.5406	9.37639	6.57036	118	Intron (ENSMUST000000)	26624156	26715068	II1rap
Treg_2_peak_53723	17.0609	35.0754	31.0786	277	Intron (ENSMUST000000)	26727042	26728228	II1rap
Treg_2_peak_53722	3.6359	5.41249	3.16527	196	Promoter (<=1kb)	26722434	26730117	II1rap
Treg_2_peak_142371	4.61717	7.516	4.89772	141	Intron (ENSMUST000000)	86740870	88115645	II1rap1
Treg_2_peak_142370	3.69374	5.73445	3.33556	172	Intron (ENSMUST000000)	86740870	88115645	II1rap1
Treg_2_peak_142357	4.41756	6.52649	4.10642	135	Intron (ENSMUST000000)	86747242	87890235	II1rap1
Treg_2_peak_142358	9.23434	17.4062	14.0484	179	Intron (ENSMUST000000)	86747242	87890235	II1rap1
Treg_2_peak_144669	5.5406	9.37639	6.57036	138	Distal Intergenic	137570608	138846946	II1rap2
Treg_2_peak_144670	5.25883	8.01554	5.38817	122	Distal Intergenic	137570608	138846946	II1rap2
Treg_2_peak_144671	4.61717	7.516	4.89772	116	Distal Intergenic	137570608	138846946	II1rap2
Treg_2_peak_144672	3.69374	5.73445	3.33556	110	Distal Intergenic	137570608	138846946	II1rap2
Treg_2_peak_144673	3.69374	5.73445	3.33556	112	Distal Intergenic	137570608	138846946	II1rap2
Treg_2_peak_144674	8.18077	14.5934	11.4246	166	Distal Intergenic	137570608	138846946	II1rap2
Treg_2_peak_144675	3.69374	5.73445	3.33556	116	Distal Intergenic	137570608	138846946	II1rap2
Treg_2_peak_144676	4.61717	7.516	4.89772	157	Distal Intergenic	137570608	138846946	II1rap2
Treg_2_peak_144677	8.3109	15.3245	12.0866	217	Distal Intergenic	137570608	138846946	II1rap2
Treg_2_peak_144678	4.61717	7.516	4.89772	107	Distal Intergenic	137570608	138846946	II1rap2
Treg_2_peak_144679	3.69374	5.73445	3.33556	165	Distal Intergenic	137570608	138846946	II1rap2
Treg_2_peak_144680	17.4527	37.1153	33.0614	172	Intron (ENSMUST000000)	137571019	138506311	II1rap2
Treg_2_peak_144681	4.61717	7.516	4.89772	243	Intron (ENSMUST000000)	137571019	138506311	II1rap2
Treg_2_peak_144682	2.7703	4.04921	1.90871	134	Intron (ENSMUST000000)	137571019	138506311	II1rap2
Treg_2_peak_144687	4.61717	7.516	4.89772	140	Intron (ENSMUST000000)	137651720	138846624	II1rap2
Treg_2_peak_144685	4.61717	7.516	4.89772	228	Intron (ENSMUST000000)	137651720	138846624	II1rap2
Treg_2_peak_144686	6.46404	11.3035	8.33659	679	Intron (ENSMUST000000)	137651720	138846624	II1rap2
Treg_2_peak_2433	7.38747	13.2885	10.182	130	Distal Intergenic	40429570	40446723	II1r1
Treg_2_peak_2434	8.79978	15.2657	12.0779	638	Distal Intergenic	40429570	40446723	II1r1
Treg_2_peak_2435	12.9281	26.1132	22.3932	273	Distal Intergenic	40429570	40446723	II1r1
Treg_2_peak_2436	7.27179	12.6392	9.60486	130	Distal Intergenic	40429570	40446723	II1r1
Treg_2_peak_2437	4.54487	7.11231	4.62813	101	Distal Intergenic	40429570	40446723	II1r1
Treg_2_peak_2438	8.3109	15.3245	12.0866	372	Intron (ENSMUST000000)	40440628	40465396	II1r1
Treg_2_peak_2428	6.6651	10.2696	7.44017	213	Distal Intergenic	40324610	40329441	II1r2
Treg_2_peak_2429	4.43538	6.60105	4.17962	158	Distal Intergenic	40324610	40329441	II1r2
Treg_2_peak_2427	8.3109	15.3245	12.0866	142	Intron (ENSMUST000000)	40324610	40329441	II1r2
Treg_2_peak_2430	6.26002	10.2388	7.41941	166	Intron (ENSMUST000000)	40325611	40329171	II1r2
Treg_2_peak_72633	4.61717	7.516	4.89772	137	Intron (ENSMUST000000)	24345288	24349807	II1rn
Treg_2_peak_83703	7.38747	13.2885	10.182	176	Distal Intergenic	37120523	37125959	II2
Treg_2_peak_8234	7.49823	11.9232	8.93461	128	Distal Intergenic	130907415	130911226	II20
Treg_2_peak_8235	3.69374	5.73445	3.33556	109	Distal Intergenic	130907415	130911226	II20

Table S9: Narrow peaks ChIPseeker annotation of HDAC8 in Treg cells (3)

name	signalValue	'-log10pvalue	'-log10qvalue	peak_summit	annotation	geneStart	geneEnd	geneName
Treg_3_peak_8968	12.3944	22.362	18.1596	161	Distal Intergenic	82176657	82305690	Ccl1
Treg_3_peak_8960	5.40459	7.41211	4.32469	130	Distal Intergenic	82176657	82179812	Ccl1
Treg_3_peak_8961	4.19571	5.73537	2.89041	118	Distal Intergenic	82176657	82179812	Ccl1
Treg_3_peak_8966	4.15656	5.14039	2.50004	257	Intron (ENSMUST0000013)	82176657	82305690	Ccl1
Treg_3_peak_8965	9.23057	15.5688	11.7215	218	Intron (ENSMUST0000013)	82176659	82179812	Ccl1
Treg_3_peak_8962	5.72948	8.36552	5.18008	129	Intron (ENSMUST0000013)	82176659	82179812	Ccl1
Treg_3_peak_8963	5.72948	8.36552	5.18008	58	Intron (ENSMUST0000013)	82176659	82179812	Ccl1
Treg_3_peak_8964	3.35657	4.31618	1.74912	159	Intron (ENSMUST0000013)	82176659	82179812	Ccl1
Treg_3_peak_8967	4.75144	6.43742	3.52783	114	Promoter (1-2kb)	82176657	82305690	Ccl1
Treg_3_peak_8957	6.84239	10.194	6.80657	292	Distal Intergenic	82057823	82062955	Ccl11
Treg_3_peak_48919	13.4624	24.5259	20.2379	150	Distal Intergenic	94810453	94812036	Ccl17
Treg_3_peak_1649	7.36648	11.5336	8.01027	142	Distal Intergenic	83116793	83119167	Ccl20
Treg_3_peak_1648	4.09249	5.4299	2.7156	175	Distal Intergenic	83116766	83119166	Ccl20
Treg_3_peak_48915	4.19571	5.73537	2.89041	80	Distal Intergenic	94745590	94751699	Ccl22
Treg_3_peak_48916	3.60306	4.16554	1.74912	321	Distal Intergenic	94745590	94751699	Ccl22
Treg_3_peak_48917	3.24875	4.00398	1.68449	113	Distal Intergenic	94745590	94751699	Ccl22
Treg_3_peak_48918	4.91099	6.86453	3.89362	113	Intron (ENSMUST0000003)	94745680	94749873	Ccl22
Treg_3_peak_40213	5.874	8.79695	5.52216	146	Distal Intergenic	135570580	135573049	Ccl24
Treg_3_peak_40212	3.4638	4.00435	1.68449	206	Distal Intergenic	135570580	135573049	Ccl24
Treg_3_peak_40211	5.32186	7.33064	4.25169	106	Downstream (<1kb)	135569937	135573049	Ccl24
Treg_3_peak_46947	10.6405	18.3874	14.3776	268	Promoter (1-2kb)	4332259	4334807	Ccl25
Treg_3_peak_8995	16.37	31.5605	27.0276	170	Intron (ENSMUST0000012)	83587882	83593087	Ccl6
Treg_3_peak_8958	7.12716	10.8861	7.41243	119	Distal Intergenic	82115185	82116799	Ccl8
Treg_3_peak_8959	5.03486	7.23294	4.1628	136	Distal Intergenic	82115185	82116799	Ccl8
Treg_3_peak_8994	4.38634	5.59955	2.86402	202	Distal Intergenic	83575318	83577142	Ccl9
Treg_3_peak_52720	4.19571	5.73537	2.89041	90	Promoter (<=1kb)	123962124	123968622	Ccr1
Treg_3_peak_52721	12.4697	22.3446	18.1451	147	Distal Intergenic	123977243	123978408	Ccr11
Treg_3_peak_52723	4.19571	5.73537	2.89041	155	Promoter (<=1kb)	124101950	124113557	Ccr2
Treg_3_peak_52722	5.72948	8.36552	5.18008	122	Distal Intergenic	124021972	124031689	Ccr3
Treg_3_peak_52724	6.23484	8.91071	5.61864	202	Distal Intergenic	124128748	124147699	Ccr5
Treg_3_peak_21824	5.874	8.79695	5.52216	152	Promoter (<=1kb)	8236043	8256108	Ccr6
Treg_3_peak_21825	3.91071	4.95521	2.35137	109	Promoter (<=1kb)	8245065	8257120	Ccr6
Treg_3_peak_21826	6.13188	8.71216	5.50146	159	Promoter (2-3kb)	8245065	8257120	Ccr6
Treg_3_peak_9337	4.89402	6.8168	3.89225	110	Distal Intergenic	99144196	99155077	Ccr7
Treg_3_peak_52610	7.04128	10.7895	7.32935	122	Distal Intergenic	120092114	120094906	Ccr8
Treg_3_peak_3453	4.91099	6.86453	3.89362	122	Distal Intergenic	161780689	161788495	FasI
Treg_3_peak_6921	4.13148	5.54171	2.81239	162	Distal Intergenic	118441046	11845892	Irfng
Treg_3_peak_6929	7.31056	11.0477	7.56841	233	Distal Intergenic	118502035	118556525	Irfngas1
Treg_3_peak_6933	5.874	8.79695	5.52216	135	Distal Intergenic	118502035	118556525	Irfngas1
Treg_3_peak_6928	4.91099	6.86453	3.89362	113	Distal Intergenic	118502035	118556525	Irfngas1
Treg_3_peak_6930	3.65528	4.38317	1.80968	103	Distal Intergenic	118502035	118556525	Irfngas1
Treg_3_peak_6927	3.27399	4.07351	1.6853	194	Distal Intergenic	118502035	118556525	Irfngas1
Treg_3_peak_6932	3.27399	4.07351	1.6853	117	Distal Intergenic	118502035	118556525	Irfngas1
Treg_3_peak_6931	3.4638	4.00435	1.68449	127	Distal Intergenic	118502035	118556525	Irfngas1
Treg_3_peak_6926	3.4638	4.00435	1.68449	114	Intron (ENSMUST0000023)	118502035	118555352	Irfngas1
Treg_3_peak_6925	9.1521	14.8555	11.0764	184	Intron (ENSMUST0000023)	118502035	118555352	Irfngas1
Treg_3_peak_6924	4.91099	6.86453	3.89362	168	Intron (ENSMUST0000023)	118502035	118555352	Irfngas1
Treg_3_peak_4673	5.03486	7.23294	4.1628	97	Distal Intergenic	19605919	19609256	Irfngr1
Treg_3_peak_21488	4.98017	7.17466	4.1628	246	Intron (ENSMUST0000002)	91547147	91560649	Irfngr2
Treg_3_peak_35085	5.67657	9.2058	5.90597	120	Promoter (<=1kb)	41767799	41769474	Il11ra1
Treg_3_peak_32251	20.9761	44.5818	39.7466	194	Distal Intergenic	68694021	68698547	Il12a
Treg_3_peak_32250	7.43667	11.7378	8.18836	136	Distal Intergenic	68694021	68698547	Il12a
Treg_3_peak_32249	12.9398	23.4361	19.1964	215	Promoter (2-3kb)	68690644	68698547	Il12a
Treg_3_peak_8041	4.79132	6.5399	3.62572	110	Distal Intergenic	44400063	44414010	Il12b
Treg_3_peak_42009	3.70959	4.40186	1.82607	97	Intron (ENSMUST0000001)	67292018	67376188	Il12rb2
Treg_3_peak_42007	3.4638	4.00435	1.68449	127	Intron (ENSMUST0000011)	67291318	67339694	Il12rb2
Treg_3_peak_42010	7.65907	11.738	8.18836	132	Promoter (2-3kb)	67292018	67376188	Il12rb2
Treg_3_peak_42008	4.19571	5.73537	2.89041	223	Promoter (2-3kb)	67291318	67339694	Il12rb2
Treg_3_peak_8256	6.4056	11.124	7.63862	157	Downstream (1-2kb)	53631324	53634702	Il13
Treg_3_peak_53055	4.09249	5.4299	2.7156	98	Distal Intergenic	36112110	36117259	Il13ra1
Treg_3_peak_53846	4.19571	5.73537	2.89041	132	Distal Intergenic	147383478	147403832	Il13ra2
Treg_3_peak_48619	4.19571	5.73537	2.89041	159	Distal Intergenic	82331914	82344473	Il15
Treg_3_peak_48621	5.72948	8.36552	5.18008	148	Intron (ENSMUST0000020)	82331739	82345683	Il15
Treg_3_peak_48620	5.72948	8.36552	5.18008	117	Promoter (<=1kb)	82331739	82345683	Il15
Treg_3_peak_27130	8.26296	13.416	9.72605	141	Intron (ENSMUST0000013)	11723164	11733968	Il15ra
Treg_3_peak_382	6.0051	8.59188	5.38576	148	Distal Intergenic	20730905	20734496	Il17a
Treg_3_peak_381	4.76947	6.37369	3.47838	140	Distal Intergenic	20730905	20734496	Il17a
Treg_3_peak_16249	10.1833	17.1861	13.2553	182	Distal Intergenic	57524777	57543166	Il17d
Treg_3_peak_15623	15.1046	28.7983	24.3496	141	Intron (ENSMUST0000003)	27067397	27100976	Il17rd
Treg_3_peak_15625	8.41695	13.3016	9.62041	161	Intron (ENSMUST0000003)	27067397	27100976	Il17rd
Treg_3_peak_15624	4.15656	5.14039	2.50004	106	Intron (ENSMUST0000003)	27067397	27100976	Il17rd
Treg_3_peak_15626	8.85717	14.2727	10.5215	117	Promoter (1-2kb)	27067397	27100976	Il17rd
Treg_3_peak_50974	9.60816	16.4245	12.5385	176	Distal Intergenic	50575273	50581837	Il18
Treg_3_peak_2859	7.36648	11.5336	8.01027	131	Distal Intergenic	130932816	130940115	Il19
Treg_3_peak_2860	4.15656	5.14039	2.50004	141	Distal Intergenic	130932816	130940115	Il19
Treg_3_peak_27427	5.03486	7.23294	4.1628	131	Exon (ENSMUST00000057)	24186476	24193568	Il1f9
Treg_3_peak_772	4.91099	6.86453	3.89362	142	Distal Intergenic	40225080	40317257	Il1r1
Treg_3_peak_773	4.19571	5.73537	2.89041	118	Distal Intergenic	40225080	40317257	Il1r1
Treg_3_peak_775	6.54798	9.9241	6.55583	186	Intron (ENSMUST0000002)	40266657	40277178	Il1r1
Treg_3_peak_776	6.66829	10.2794	6.87692	173	Intron (ENSMUST0000002)	40266657	40277178	Il1r1
Treg_3_peak_770	3.43117	3.94307	1.64231	139	Distal Intergenic	40074079	40112136	Il1r2
Treg_3_peak_20231	6.86547	11.879	8.326	135	Distal Intergenic	26581704	26725264	Il1rap
Treg_3_peak_20230	4.09249	5.4299	2.7156	115	Distal Intergenic	26581704	26725264	Il1rap
Treg_3_peak_20232	8.31312	13.0952	9.44846	168	Intron (ENSMUST0000009)	26624156	26715068	Il1rap
Treg_3_peak_20233	5.78408	8.52349	5.32538	164	Intron (ENSMUST0000009)	26722434	26730117	Il1rap
Treg_3_peak_53408	10.0697	17.3659	13.4112	134	Intron (ENSMUST0000011)	86747242	87890235	Il1rapl1
Treg_3_peak_53407	8.39143	13.8094	10.0778	141	Intron (ENSMUST0000011)	86747242	87890235	Il1rapl1

Treg_3_peak_53766	4.19571	5.73537	2.89041	114	Distal Intergenic	137570608	138846946	1rapl2
Treg_3_peak_31622	12.0288	21.3264	17.1697	402	Distal Intergenic	37120523	37125959	2
Treg_3_peak_31621	7.55229	12.0912	8.49257	134	Promoter (<=1kb)	37120523	37125959	2
Treg_3_peak_2858	4.75144	6.43742	3.52783	147	Distal Intergenic	130906985	130911451	20
Treg_3_peak_4678	4.19571	5.73537	2.89041	154	Distal Intergenic	19712570	19760053	20ra
Treg_3_peak_4679	5.2804	7.10905	4.11776	111	Promoter (1-2kb)	19712634	19755824	20ra
Treg_3_peak_52084	6.9276	10.2656	6.86394	133	Promoter (2-3kb)	100458530	100461735	20rb
Treg_3_peak_36999	9.32579	19.199	15.1372	194	Distal Intergenic	135728172	135752140	22ra1
Treg_3_peak_37000	13.6848	24.9583	20.6477	220	Intron (ENSMUST0000010)	135728172	135752140	22ra1
Treg_3_peak_4674	5.03486	7.23294	4.1628	180	Intron (ENSMUST0000003)	19621998	19634681	22ra2
Treg_3_peak_4675	4.75144	6.43742	3.52783	109	Intron (ENSMUST0000003)	19621998	19634681	22ra2
Treg_3_peak_42014	12.2775	22.0188	17.8354	150	Intron (ENSMUST0000011)	67422932	67491855	23r
Treg_3_peak_27129	8.40714	13.6879	9.98886	136	Promoter (2-3kb)	11642807	11693193	2ra
Treg_3_peak_19107	5.82573	8.5202	5.32538	120	Intron (ENSMUST0000008)	78481324	78493756	2rb
Treg_3_peak_8279	5.72948	8.36552	5.18008	112	Distal Intergenic	54265303	54267277	3
Treg_3_peak_8278	4.95778	6.9994	4.0125	56	Distal Intergenic	54265303	54267277	3
Treg_3_peak_39917	6.00438	9.0871	5.79161	146	Intron (ENSMUST0000019)	123480401	123489489	31
Treg_3_peak_15009	3.70959	4.40186	1.82607	245	Intron (ENSMUST0000022)	112525846	112532344	31ra
Treg_3_peak_15010	4.19571	5.73537	2.89041	219	Promoter (1-2kb)	112546319	112565666	31ra
Treg_3_peak_15011	5.03486	7.23294	4.1628	113	Promoter (2-3kb)	112522795	112580662	31ra
Treg_3_peak_26181	5.03486	7.23294	4.1628	172	Distal Intergenic	29951816	29952813	33
Treg_3_peak_26180	3.35657	4.31618	1.74912	116	Promoter (<=1kb)	29951816	29952813	33
Treg_3_peak_8255	6.38717	10.0147	6.64294	184	Distal Intergenic	53612460	53618669	4
Treg_3_peak_8254	5.43291	8.17514	5.03677	135	Distal Intergenic	53612460	53618669	4
Treg_3_peak_8258	5.00122	7.12916	4.13687	111	Distal Intergenic	53720794	53725106	5
Treg_3_peak_42920	5.03486	7.23294	4.1628	189	Intron (ENSMUST0000020)	106711975	106745109	5ra
Treg_3_peak_32703	7.43667	11.7378	8.18836	387	Distal Intergenic	89864059	89913196	6ra
Treg_3_peak_15008	5.8383	9.46841	6.15325	122	Distal Intergenic	112464070	112510086	6st
Treg_3_peak_30957	7.36648	11.5336	8.01027	128	Distal Intergenic	7573182	7613760	7
Treg_3_peak_30958	7.01413	10.4366	6.98562	155	Distal Intergenic	7573182	7613760	7
Treg_3_peak_30956	5.03486	7.23294	4.1628	148	Intron (ENSMUST0000018)	7573182	7613760	7
Treg_3_peak_17745	4.84932	6.34217	3.44919	187	Distal Intergenic	9516409	9530176	7r
Treg_3_peak_6410	5.874	8.79695	5.52216	153	Distal Intergenic	95387667	95392967	Socs2
Treg_3_peak_6411	5.72948	8.36552	5.18008	172	Distal Intergenic	95387667	95392967	Socs2
Treg_3_peak_6412	4.07835	5.39034	2.7156	116	Intron (ENSMUST0000013)	95388354	95412734	Socs2
Treg_3_peak_25647	7.36648	11.5336	8.01027	113	Intron (ENSMUST0000015)	88665224	88758491	Socs6
Treg_3_peak_25648	4.09249	5.4299	2.7156	141	Promoter (1-2kb)	88665224	88758491	Socs6

Table S10: Mass spectrometry analysis of HDAC8 in effector T cells

Gene	Uniprot	logFC	AveExpr	t	P.Value	adj.P.Val	B
Hdac8	Q8VH37	8.85192778	0.49991862	22.8304362	7.69E-09	8.73E-06	10.4619104
Tbc1d32	Q3URV1	-8.7887671	0.47925633	-22.528179	8.59E-09	8.73E-06	10.3820991
Grxcr2	Q3TYR5	-7.480524	0.22449481	-18.638069	4.09E-08	2.77E-05	9.17547566
Hipk2	Q9QZR5	7.27246846	-0.6960613	16.5362087	1.09E-07	3.38E-05	8.3529301
Mlycd	Q99J39	5.78719058	-1.1044241	16.1798072	1.30E-07	3.38E-05	8.19880753
Rnf213	E9Q555	5.72705883	2.4891938	16.8026455	9.54E-08	3.38E-05	8.46519086
Cep43	Q66JX5	5.56778692	-1.0299836	15.6960001	1.66E-07	3.38E-05	7.98204543
Myo1h	Q9D6A1	-4.4421816	-1.4370263	-15.85433	1.53E-07	3.38E-05	8.05396313
Pak6	Q3ULB5	-4.5417699	-1.6416173	-16.134756	1.33E-07	3.38E-05	8.17899542
Trpm8	Q8R4D5	-7.7135505	0.40396411	-15.95944	1.45E-07	3.38E-05	8.10117601
Ikzf5	Q8BU00	6.99683818	0.39500405	15.2312807	2.12E-07	3.92E-05	7.76524823
Atad3	Q92511	6.02245498	0.9955935	14.8991519	2.54E-07	4.10E-05	7.60489595
Ppip5k1	A2ARP1	5.60313141	-1.025129	14.8407919	2.62E-07	4.10E-05	7.57623836
Nfat5	Q9WV30-2	7.2710007	-0.0687546	13.703435	4.99E-07	5.64E-05	6.98724543
Fhod1	Q6P9Q4	4.56093041	-1.6673361	13.929649	4.37E-07	5.64E-05	7.10919469
Mbd3	Q9ZD8	3.86672276	-1.4774475	13.7529365	4.85E-07	5.64E-05	7.01414388
Hip1r	Q9JKY5	-3.7548227	-2.0070911	-14.038259	4.11E-07	5.64E-05	7.16687081
Mccc2	Q3ULD5	-4.2047622	-0.4415687	-13.773048	4.79E-07	5.64E-05	7.0250377
Fbxl20	Q9CZV8	5.38987092	-1.6650425	13.089133	7.21E-07	7.72E-05	6.64317754
Sptan1	P16546	3.89852251	1.36019298	13.0018786	7.61E-07	7.74E-05	6.59271743
Msmo1	Q9CRA4	6.94721682	-0.301253	12.9063107	8.07E-07	7.82E-05	6.53698078
Stambpl1	Q76N33	4.17898307	-1.9183055	12.798661	8.63E-07	7.94E-05	6.47360363
Stom	P54116	-4.3401405	-1.4097818	-12.736399	8.98E-07	7.94E-05	6.43665743
P18529	NA	-7.1183992	-0.1554083	-12.667195	9.38E-07	7.95E-05	6.39533906
Stag3	O70576	-3.4291087	-1.9197895	-12.365266	1.14E-06	9.25E-05	6.2119057
Znf451	Q8C0P7	5.58550578	-1.4350307	11.7998781	1.65E-06	1.29E-04	5.85397917
Sptbn1	Q62261	4.27836658	-0.060564	11.7007789	1.77E-06	1.33E-04	5.78922208
Mau2	Q9D2X5-2	3.76664663	-1.6812172	11.3090726	2.31E-06	1.62E-04	5.52707732
Spata18	Q0P557	-5.304239	-0.8662537	-11.315437	2.30E-06	1.62E-04	5.53141722
Asf1a	Q9CQE6	5.61247442	-1.1011746	11.1485382	2.59E-06	1.76E-04	5.4167066
Zzef1	Q5SSH7	4.22831977	-1.4088872	10.9515793	2.98E-06	1.96E-04	5.27888221
Otulinl	Q3TVP5	3.65977568	-2.3781672	10.8782433	3.14E-06	1.99E-04	5.22687222
P01652	NA	-4.8251136	3.51074918	-10.839316	3.23E-06	1.99E-04	5.1991103
Il2rb	P16297	5.46350051	-1.5670535	10.3731238	4.57E-06	2.51E-04	4.85806457
Sun1	Q9D666	4.60480818	-1.9482857	10.4672432	4.25E-06	2.51E-04	4.92821674
Rere	Q80TZ9	4.50380652	-1.5096966	10.4010207	4.47E-06	2.51E-04	4.87892755
Acot8	P58137	-3.5953089	-2.2017977	-10.374309	4.56E-06	2.51E-04	4.85895229
Lrrcc1	Q69ZB0	4.63910829	-2.0930101	10.3027886	4.82E-06	2.58E-04	4.80520025
Crtc3	Q91X84	7.9311297	0.80157509	10.1998388	5.21E-06	2.67E-04	4.72713568
Ipo9	Q91YE6	5.32953092	-1.452841	10.1899966	5.25E-06	2.67E-04	4.71962943
Fuom	Q8R2K1	-3.1471251	-1.8646986	-10.052349	5.84E-06	2.90E-04	4.61385374
Top2b	Q64511	4.40246116	-2.0154562	9.99685407	6.09E-06	2.95E-04	4.57078302
Hectd3	Q3U487	4.22141274	-1.4739642	9.95844574	6.28E-06	2.97E-04	4.54082896
Fhl3	Q9R059	4.28916195	-2.0299047	9.83598558	6.91E-06	3.20E-04	4.4445257
Znf639	Q99KZ6	7.72771112	0.12506901	9.65192075	8.01E-06	3.56E-04	4.2974513
Rfc3	Q8R323	4.17284268	-1.5341965	9.64541531	8.05E-06	3.56E-04	4.29220136
Pgm3	Q9CYR6	4.15508683	-2.4059937	9.60499491	8.31E-06	3.60E-04	4.25950158
Rad52	P43352	4.26914185	-1.1935502	9.52299188	8.88E-06	3.76E-04	4.1927345
Exoc7	O35250	2.9803268	-2.3784448	9.45302313	9.41E-06	3.90E-04	4.13530899
Arhgef2	Q60875	5.29728082	0.00580801	9.38529152	9.94E-06	4.05E-04	4.07931464
Ppp1ca	P62137	2.67670121	2.24974429	9.01656228	1.35E-05	5.40E-04	3.76732095
Ttc39c	Q8VE09	-3.329359	-2.7718211	-8.9285308	1.46E-05	5.71E-04	3.69099898
Phf201	Q8CCJ9	4.72321353	-1.6205695	8.75691879	1.69E-05	6.50E-04	3.54011647
Dcun1d1	Q9QZ73	3.0722771	-2.614304	8.69950547	1.78E-05	6.70E-04	3.48900958
Wdr18	Q4VBE8	2.77196926	-1.6475494	8.54602899	2.04E-05	7.40E-04	3.35081455
Paxbp1	P58501	2.53487993	-3.0517119	8.56112242	2.01E-05	7.40E-04	3.36450788
Rfc2	Q9WUK4	6.98750601	0.36145969	8.38755322	2.35E-05	8.11E-04	3.20566539

Kansl2	Q8BQR4	3.94352837	-2.1368023	8.41231556	2.30E-05	8.11E-04	3.228512
Dytn	A2CI98	-3.5631469	-2.3333076	-8.3856026	2.35E-05	8.11E-04	3.20386307
Adnp	Q9Z103	4.86611299	-1.803663	8.24477293	2.67E-05	9.07E-04	3.0727097
Nipbl	Q6KCD5	3.45600317	-1.9553394	8.00075178	3.35E-05	0.00111794	2.84056086
Eif2b5	Q8CHW4	3.34185881	-2.8359791	7.97600636	3.43E-05	0.00112576	2.81666575
Rfc5	Q9D0F6	4.45488723	-1.7327107	7.8968934	3.70E-05	0.00115717	2.73982693
Pdhx	Q8BKZ9	-2.211096	-0.4379974	-7.9146692	3.64E-05	0.00115717	2.75715093
Tsc22d4	Q9EQN3	-2.771583	-1.76619	-7.8967584	3.70E-05	0.00115717	2.73969527
Trpv2	Q9WTR1	3.83260587	-2.1641477	7.65559941	4.66E-05	0.0014361	2.50121682
Nbn	Q9R207	2.39066832	-3.0827278	7.57391012	5.05E-05	0.00153189	2.41895641
Eif2b4	Q61749	4.90804079	-1.3695495	7.53714853	5.23E-05	0.00155342	2.38168932
Znf609	Q8BZ47	3.13559003	-2.5069696	7.52969329	5.27E-05	0.00155342	2.37411265
Gstt3	Q99L20	5.00901017	-0.5243421	7.49141517	5.47E-05	0.00159006	2.3351101
Herc4	Q6PAV2	3.7123998	-1.3945869	7.44409904	5.73E-05	0.00161997	2.28666404
Dlat	Q8BMF4	-2.5341084	1.96371577	-7.4552698	5.67E-05	0.00161997	2.29812504
Ablim1	Q8K4G5	2.94043965	0.35255523	7.41334558	5.91E-05	0.00164734	2.25503639
Pld1	Q8VCI0	-2.9531637	-2.1212998	-7.1362629	7.82E-05	0.00214941	1.96502733
Mcrs1	Q99L90	3.52189247	-2.636775	7.07311747	8.34E-05	0.00226101	1.89764175
Adh5	P28474	2.12560977	2.55135996	7.06107482	8.45E-05	0.00226101	1.884735
Lgals3bp	Q07797	-1.6081203	-0.9925133	-6.8911421	1.01E-04	0.00266362	1.70069386
Rfc1	P35601	3.04390342	-2.2095272	6.85895377	1.04E-04	0.00272008	1.6654263
Mrgbp	Q9DAT2	1.99622206	1.11766176	6.83027502	1.08E-04	0.00276821	1.63389375
Fastkd1	Q6DI86	4.01295616	-2.4202153	6.81787207	1.09E-04	0.00276888	1.6202243
Hcfc1	Q61191	2.10260919	0.209372	6.80643675	1.10E-04	0.00276888	1.60760396
Cenpx	Q8C4X1	3.03658663	-2.3167662	6.75419608	1.17E-04	0.00288763	1.54973762
Trerf1	Q8BXJ2	-3.9124229	-1.9786062	-6.7440282	1.18E-04	0.00288763	1.53843418
Ric8a	Q3TIR3	3.69325201	-2.0853983	6.56359009	1.43E-04	0.00330817	1.33562176
Lrpprc	Q6PB66	2.30158066	-1.1960235	6.57562086	1.41E-04	0.00330817	1.34927632
Celf2	Q9Z0H4	1.61092572	0.33712672	6.57191	1.42E-04	0.00330817	1.34506663
Dhx9	O70133-2	-1.7018068	1.67139041	-6.5681448	1.42E-04	0.00330817	1.34079345
Ddx20	Q9JY4	-2.1949337	-2.7964667	-6.5712732	1.42E-04	0.00330817	1.34434408
Syne3	Q4FZC9	4.05322475	-1.7110493	6.40417919	1.70E-04	0.00389648	1.15288941
Clint1	Q99KN9	4.32444925	1.96061751	6.38687209	1.74E-04	0.0039278	1.13284666
Rad50	P70388	2.59633866	-0.0552446	6.36014625	1.79E-04	0.00398798	1.10181737
Tardbp	Q921F2	2.47497416	3.80567449	6.35341348	1.80E-04	0.00398798	1.09398533
Rev1	Q920Q2	3.82259845	-2.3701735	6.32470651	1.86E-04	0.00407342	1.06052268
Btbd9	Q8C726	-2.875914	-3.0737819	-6.2505759	2.02E-04	0.00437941	0.973595
Kat8	Q9D1P2	1.90558782	-2.8944791	6.17180064	2.21E-04	0.00473703	0.88039936
Snx6	Q6P8X1	2.34198945	-0.5210728	6.14204253	2.29E-04	0.00484909	0.84497198
Supt6h	Q62383	2.89308747	-2.9970416	6.12063693	2.35E-04	0.00486755	0.81941279
Smg1	Q8BKX6	-4.1984818	-1.3674564	-6.1289501	2.32E-04	0.00486755	0.82934654
Pus1	A2ADA5	2.02888027	-2.9182288	6.10999044	2.37E-04	0.00487736	0.80667683
Eml3	Q8VC03	-2.5997629	-2.2553181	-6.0640493	2.50E-04	0.0050897	0.75153897
Immt.1	NA	-1.5099719	0.85231397	-5.9584795	2.83E-04	0.00569339	0.62372003
Fancc	P50652	3.08894028	-2.7625273	5.92952976	2.92E-04	0.00583088	0.58839569
Ubac2	Q8R1K1	2.8427336	-1.2155258	5.85280019	3.20E-04	0.00631734	0.49419752
Stoml2	Q99JB2	-1.4425773	-0.3904443	-5.7786145	3.49E-04	0.00682964	0.40232646
Ppp2r1a	Q76MZ3	1.32550765	1.1219516	5.72311418	3.73E-04	0.0072264	0.33308049
Osbp18	B9EJ86	2.05626452	-2.8884043	5.64877421	4.08E-04	0.00782528	0.23963437
Rbm7	Q9CQT2	-1.5498966	-1.5376811	-5.6067107	4.29E-04	0.00815565	0.18640609
Diaph1	O08808	1.33212935	-1.5742745	5.55481547	4.57E-04	0.00856108	0.12038267
Tax1bp1	Q3UKC1	-2.1702226	3.1545518	-5.5514421	4.59E-04	0.00856108	0.11607733
Babam1	Q3UI43	-2.518933	0.11493715	-5.4944978	4.92E-04	0.00909381	0.04315063
Kansl1	Q80TG1	2.9054946	-1.9384516	5.48110212	5.00E-04	0.00916103	0.02592632
Exosc5	Q9CRA8	2.31576464	-0.2156698	5.37933239	5.67E-04	0.01021334	-0.1057896
Mccc1	Q99MR8	-3.4517419	-0.7230318	-5.3784538	5.67E-04	0.01021334	-0.1069333
Golga3	P55937	-4.0241896	-1.3051814	-5.3608545	5.80E-04	0.0103474	-0.129868
Clta	O08585	3.95111957	3.3046576	5.34656735	5.90E-04	0.01044133	-0.1485201
Cltc	Q68FD5	3.63789992	3.59065047	5.24859887	6.67E-04	0.0116017	-0.2772311

Mrpl48	Q8JZS9	-1.8892536	-1.5804177	-5.2538308	6.63E-04	0.0116017	-0.2703216
Trmt1l	A2RSY6	1.98302996	-3.475624	5.22540708	6.87E-04	0.01184452	-0.3079084
Exoc5	Q3TPX4	2.463025	-2.6537279	5.21184914	6.99E-04	0.01187238	-0.3258793
Pan2	Q8BGF7	1.25429937	-3.8741384	5.21023796	7.00E-04	0.01187238	-0.3280167
Med13	Q5SWW4	2.01819843	-3.3366165	5.10562966	8.00E-04	0.013449	-0.4676165
Cep350	E9Q309	5.09603503	-0.7186528	5.07733316	8.30E-04	0.01371858	-0.5056576
Sirt7	Q8BKJ9	-1.9108607	-0.4686099	-5.0783345	8.29E-04	0.01371858	-0.5043094
Hspa1l	P16627	2.04112097	-0.2851052	5.05324651	8.56E-04	0.01403555	-0.5381329
Cltb	Q6IRU5-2	4.40761123	0.41727229	5.03404622	8.77E-04	0.0141585	-0.564082
Il2rg	P34902	2.77311303	-3.0988062	5.03903154	8.71E-04	0.0141585	-0.5573391
Ehd1	Q9WVK4	5.0625724	-0.2377201	5.01878972	8.95E-04	0.01419713	-0.5847402
Pan3	Q640Q5	2.66830166	-2.6178866	5.02017536	8.93E-04	0.01419713	-0.5828625
Hdac1	O09106	1.66800175	2.97680644	5.0136997	9.00E-04	0.01419713	-0.59164
Sbf1	Q6ZPE2	2.90825091	-1.0867155	4.98605659	9.33E-04	0.01460092	-0.6291796
Ndufaf6	A2AIL4	-2.0684515	-2.6413733	-4.9732874	9.49E-04	0.01473138	-0.6465586
Fcgr4	A0A0B4J1G0	-3.3542076	-0.3240445	-4.9037776	0.0010387	0.0160054	-0.7415878
Lrrfip1.1	NA	2.58779111	-2.3245705	4.89379383	0.00105236	0.01609393	-0.7552961
App1	Q8K3H0	-1.7819409	-2.6584407	-4.867738	0.00108893	0.01652892	-0.7911417
Ccdc9	Q8VC31	2.41530354	-2.4780213	4.8525945	0.00111081	0.01673623	-0.8120214
Rif1	Q6PR54	6.39847503	1.00767131	4.84301329	0.0011249	0.01680517	-0.8252494
Aldh16a1	Q57119	-2.3334663	-2.440404	-4.838298	0.00113191	0.01680517	-0.8317645
Isg15	Q64339	1.8522287	1.23927358	4.81564063	0.00116625	0.01718945	-0.8631158
Sfn5	Q8CBA2	1.77348906	-2.6845301	4.80997761	0.001175	0.01719392	-0.8709637
Chd4	Q6PDQ2	2.14752361	-1.1261599	4.79588177	0.00119711	0.01739229	-0.8905186
Ssh2	Q5SW75	2.95300574	-2.3771248	4.77898939	0.0012242	0.01765971	-0.9139919
Arl1	P61211	-1.9978526	0.58273595	-4.7644235	0.00124809	0.01787756	-0.9342664
Cisd2	Q9CQB5	4.11121218	-1.5299979	4.75542985	0.00126309	0.01796594	-0.9468004
Vac14	Q80WQ2	-3.0620533	-1.0884739	-4.672842	0.00141036	0.01992131	-1.0624581
Hdac2	P70288	2.13999814	-0.9724864	4.66309108	0.00142894	0.02004452	-1.0761798
Rabif	Q91X96	3.72089534	-1.9326694	4.65549805	0.00144359	0.02011132	-1.0868746
Fastkd3	Q8BSN9	5.11201918	0.22120142	4.63261789	0.00148872	0.02059902	-1.1191527
Mtrex	Q9CZU3	-1.7222829	-1.5861578	-4.6180615	0.00151823	0.02086536	-1.139728
Nip7	Q9CCK8	1.41352131	-3.1672091	4.60649021	0.00154213	0.02105168	-1.1561062
Nup188	Q6ZQH8	2.9358496	-2.7491365	4.59740847	0.00156118	0.02116963	-1.1689743
Dlst	Q9D2G2	-1.0603252	1.9858495	-4.5367598	0.00169509	0.02283318	-1.2552177
Vps4a	Q8VEJ9	1.11290544	0.0654804	4.5217174	0.00173019	0.02315263	-1.2766912
Zcchc8	Q9CYA6	-2.2343366	-2.3336691	-4.4878919	0.00181201	0.02408903	-1.3250982
Nme3	Q9WV85	-2.9004295	-2.0230074	-4.479428	0.00183313	0.02421156	-1.3372365
Nup210	Q9QY81	-1.0874423	0.01348324	-4.4234067	0.00197978	0.02591625	-1.4178394
Emg1	O35130	-2.5751347	-1.8553387	-4.4205197	0.00198768	0.02591625	-1.4220055
Rbbp4	Q60972	0.99568407	1.51779797	4.40226514	0.00203838	0.026408	-1.4483749
Mta2	Q9R190	1.72725773	-2.2156957	4.37294658	0.00212274	0.0273269	-1.4908264
Trim12a	Q99PQ1	1.65001379	-0.1041728	4.36123909	0.00215747	0.02759934	-1.5078123
Jak1	P52332	2.20609339	-1.5238957	4.33801672	0.00222819	0.02832581	-1.5415623
Paf1	Q8K2T8	3.07462988	-2.1889063	4.2948264	0.00236642	0.02970937	-1.6045351
Samm50	Q8BGH2	-1.2820422	-0.6090978	-4.2861042	0.00239545	0.02970937	-1.6172843
Srrm1	Q52KI8	-1.5806458	-0.6614122	-4.2883782	0.00238784	0.02970937	-1.6139593
Tle3	Q08122	-3.1554358	-0.6738031	-4.2921388	0.00237533	0.02970937	-1.6084624
Rfc4	Q99J62	3.41048855	-1.2236705	4.26805209	0.00245673	0.0302848	-1.6437044
Nrbp1	Q99J45	-3.7612486	-0.3008711	-4.2608523	0.00248164	0.03040759	-1.6542544
Mvp	Q9EQK5	-2.0693647	-2.5320949	-4.2145676	0.00264841	0.03225666	-1.7222481
Acat2	Q8CAY6	2.779663	-1.2065374	4.16568722	0.00283767	0.03435608	-1.7943757
Zmym2	Q9CU65	3.00257594	-2.9271533	4.15821082	0.00286788	0.03451633	-1.8054366
Prkcd	P28867	2.39467003	-2.0033868	4.14675181	0.00291484	0.03487523	-1.8224044
Esco1	Q69Z69	2.27694356	-2.7780904	4.12403382	0.00301041	0.03559987	-1.8560962
Dbt	P53395	-2.297218	0.53432344	-4.1251851	0.00300549	0.03559987	-1.854387
Pak1ip1	Q9DCE5	-1.8993874	-2.2168287	-4.1102572	0.00307	0.03609466	-1.8765615
Rbbp7	Q60973	0.88194719	1.68703609	4.10500862	0.00309303	0.03615646	-1.8843649
Ipo7	Q9EPL8	2.23660643	-2.2565615	4.07112478	0.00324625	0.0375341	-1.9348315

Gsdma	Q9EST1	-1.9315638	-2.6653518	-4.0668305	0.00326624	0.0375341	-1.9412382
Traf5	P70191	-1.9359766	-3.6721905	-4.0680735	0.00326044	0.0375341	-1.9393836
Fxr1	Q61584	2.99575374	-1.6154838	4.03321791	0.00342735	0.03895431	-1.9914702
Smchd1	Q6P5D8	-1.6344579	-2.3499417	-4.0330582	0.00342813	0.03895431	-1.9917092
Ptgr3	Q8BGC4	2.16275926	-2.4375413	4.00396669	0.00357447	0.04018992	-2.0353048
Chchd3	Q9CRB9	-1.230215	1.61937354	-4.0035942	0.00357639	0.04018992	-2.0358636
Ctps2	P70303	1.01188303	0.31351885	3.99572199	0.00361715	0.04042465	-2.04768
Ppp1r2	Q9DCL8	2.04846733	-3.2356105	3.98719257	0.00366188	0.04070086	-2.0604919
Hacd3	Q8K2C9	1.02004618	-0.880819	3.97923518	0.00370414	0.04084222	-2.0724529
Jup	Q02257	-1.5092863	0.87820655	-3.977251	0.00371475	0.04084222	-2.0754367
Stard9	Q80TF6	-1.8365765	-2.4338377	-3.9635285	0.00378909	0.0414355	-2.0960861
Purb	O35295	2.00113832	-2.1115627	3.94262206	0.0039054	0.04229857	-2.1275919
Ndufa10	Q99LC3	1.19990572	0.41458847	3.93907562	0.00392551	0.04229857	-2.1329418
Cad	B2RQC6	-1.2840243	0.85850501	-3.9345735	0.00395119	0.04229857	-2.1397357
Mrpl45	Q9D0Q7	-2.0650574	-2.375484	-3.9354126	0.00394639	0.04229857	-2.1384693
Camk2d	Q6PHZ2	-2.3903924	-0.441749	-3.929244	0.00398183	0.04240337	-2.1477816
Pccb	Q99MN9	-2.0429246	-2.3171645	-3.9158596	0.00405989	0.04300949	-2.1680033
Tap1	P21958	1.22192031	-1.8038739	3.89239496	0.00420072	0.04409349	-2.2035089
Cand1	Q6ZQ38	0.90629349	0.76636965	3.89160055	0.00420557	0.04409349	-2.2047122
Lef1	P27782	0.98087335	0.70394509	3.85902028	0.00441006	0.04596266	-2.2541272
Mrpl55	Q9CZ83	-1.3256897	-0.0809774	-3.8560766	0.00442905	0.04596266	-2.2585984
Fam162a	Q9D6U8	1.66479789	-3.3128755	3.8448252	0.00450244	0.04625234	-2.2756978
Ncoa5	Q91W39	-1.4323683	-0.709447	-3.8452311	0.00449977	0.04625234	-2.2750806
Sec16a	E9QAT4	1.9021204	-3.0045495	3.80572894	0.0047677	0.04873119	-2.3352333

Table S11: Mass spectrometry analysis of HDAC8 in Foxp3+ Treg cells

Gene	Uniprot	logFC	AveExpr	t	P.Value	adj.P.Val	B
Tbc1d32	Q3URV1	-9.2171103	0.58511509	-21.264038	8.36E-09	1.12E-05	10.1432826
Hdac8	Q8VH37	6.5112272	-0.5110879	18.2308001	3.11E-08	1.28E-05	9.19239834
Nfat5	Q9WV30-2	5.90378586	-0.446268	17.3202126	4.80E-08	1.28E-05	8.85597797
P18529	NA	-7.9186305	-0.3409494	-17.549278	4.29E-08	1.28E-05	8.9431252
Grxcr2	Q3TYR5	-8.1243706	0.20147637	-19.025644	2.16E-08	1.28E-05	9.46531336
Hipk2	Q9QZR5	6.72985129	-0.499112	16.1327016	8.76E-08	1.95E-05	8.37488154
Pkn1	P70268	4.75905633	-1.3008851	15.2062859	1.44E-07	2.75E-05	7.96228317
Fastkd3	Q8BSN9	5.19768198	-1.1977817	13.5959211	3.68E-07	5.46E-05	7.15519633
Smg1	Q8BKX6	-4.9348099	-1.2774477	-13.606711	3.66E-07	5.46E-05	7.16102369
Rfc2	Q9WUK4	4.58925139	-1.5100213	12.9076987	5.68E-07	7.57E-05	6.77066555
Gstt3	Q99L20	5.73534857	-0.9877441	12.2921418	8.51E-07	1.03E-04	6.40408237
Rif1	Q6PR54	6.62442235	-0.8139971	11.9768522	1.06E-06	1.17E-04	6.20744132
Ii2rb	P16297	5.01355123	-1.1278094	11.5833812	1.39E-06	1.32E-04	5.95310444
Myo1h	Q9D6A1	-5.2239267	-1.4813609	-11.648022	1.33E-06	1.32E-04	5.99558852
Add3	Q9QYB5	4.07107079	-1.9321136	10.240341	3.80E-06	3.38E-04	5.00296814
Sptan1	P16546	4.53999418	0.88085507	10.0286051	4.50E-06	3.65E-04	4.84052383
Fhl3	Q9R059	4.42105398	-1.6021185	9.84967129	5.20E-06	3.65E-04	4.70033627
Wdr18	Q4VBE8	4.04856019	-2.0927587	9.94166624	4.83E-06	3.65E-04	4.77274823
Mccc2	Q3ULD5	-3.4075842	-2.3381211	-9.85486	5.18E-06	3.65E-04	4.70443959
Ipo9	Q91YE6	4.54468797	-1.356958	9.66365597	6.06E-06	4.04E-04	4.55169745
Znf639	Q99KZ6	6.983813	-0.5969511	9.20079945	8.98E-06	5.44E-04	4.16848254
Rbm7	Q9CQT2	-2.9506942	-2.5936387	-9.2328654	8.73E-06	5.44E-04	4.19566392
Mlycd	Q99J39	5.23183545	-1.6075918	9.05437272	1.02E-05	5.91E-04	4.04312807
Sptbn1	Q62261	4.37139647	0.2211007	8.96699671	1.10E-05	6.07E-04	3.96735037
Ppip5k1	A2ARP1	3.8473939	-1.6258978	8.93020012	1.14E-05	6.07E-04	3.93521701
Hip1r	Q9JKY5	-2.9983238	-2.682695	-8.8160009	1.26E-05	6.43E-04	3.83464607
Stag3	O70576	-3.268442	-2.1515763	-8.7798821	1.30E-05	6.43E-04	3.80256934
Mtmr3	Q8K296	-3.3523058	-2.561703	-8.5702838	1.57E-05	7.50E-04	3.61383869
Cep43	Q66JX5	3.97692839	-1.9419724	8.51366462	1.66E-05	7.63E-04	3.56208775
Ikzf5	Q8BU00	4.21272613	-1.2658958	8.37163179	1.89E-05	8.42E-04	3.4307995
Herc4	Q6PAV2	5.32225639	-1.8611514	8.1765932	2.28E-05	9.49E-04	3.24703016
Eprs1	Q8CGC7	-2.8267388	-1.7956409	-8.1965115	2.23E-05	9.49E-04	3.26598534
Fbxl20	Q9CZV8	3.8817575	-1.8561179	7.90727751	2.95E-05	0.00115782	2.98644989
Prkd2	Q8BZ03	-3.106049	-2.2851675	-7.9372297	2.87E-05	0.00115782	3.01583001
Strn	O55106	-2.8086373	-2.3358745	-7.8107036	3.24E-05	0.00123675	2.89102757
Skap1	Q3UUUV5	-3.0721301	-3.0955055	-7.6683481	3.74E-05	0.00138532	2.74841658
Pycr3	Q9DCC4	-2.8365138	-2.7060895	-7.4733265	4.55E-05	0.0016419	2.5491888
Aldh2	P47738	-3.4832907	-2.1179884	-7.4200823	4.81E-05	0.00168832	2.49400738
Cad	B2RQC6	-2.1586255	0.14650222	-7.1219359	6.56E-05	0.00224514	2.17860139
Mccc1	Q99MR8	-3.2078766	-2.3733947	-7.01856	7.33E-05	0.00241039	2.066648
Pak6	Q3ULB5	-4.3796554	-1.6098034	-7.0083482	7.41E-05	0.00241039	2.05551512
Top2b	Q64511	2.65223375	-2.2487796	6.97445745	7.68E-05	0.00241095	2.01847165
Ranbp2	Q9ERU9	-3.1510811	-2.488014	-6.9637941	7.77E-05	0.00241095	2.00678587
Vars1	Q9Z1Q9	-2.06824	-0.6763276	-6.9286732	8.07E-05	0.00244714	1.96819385
Ckb	Q04447	3.67497379	0.46407987	6.88590431	8.45E-05	0.00250622	1.92098254
Cops3	O88543	-3.1140619	-1.6001112	-6.811883	9.16E-05	0.00265771	1.83871004
Atad3	Q92511	5.5146529	1.35704851	6.78061243	9.48E-05	0.00269185	1.80373804
Hspa1b	P17879	3.67241899	-0.2566687	6.68630276	1.05E-04	0.00271191	1.69748304
Eif2b5	Q8CHW4	2.88352356	-2.9048711	6.68226444	1.06E-04	0.00271191	1.69290686
Dock10	Q8BZN6	-2.5071902	-2.573146	-6.6849863	1.05E-04	0.00271191	1.69599153
Hpf1	Q8CFE2	-3.2819349	-2.6720283	-6.7529739	9.78E-05	0.00271191	1.77272085
Camk2d	Q6PHZ2	-3.5861593	-1.6049668	-6.7112671	1.02E-04	0.00271191	1.7257242
NARS1	Q8BP47	-2.7011565	-2.1757469	-6.5968693	1.16E-04	0.00292633	1.59562692
Rad52	P43352	2.62781716	-2.2995915	6.50776711	1.29E-04	0.00311713	1.49307617
Ubash3a	Q3V3E1	-3.611197	-2.437163	-6.5135316	1.28E-04	0.00311713	1.49974335
Fhod1	Q6P9Q4	3.49642423	-2.5007409	6.41931506	1.42E-04	0.00332548	1.39020433
Aldh16a1	Q57119	-2.0961532	-2.5317996	-6.4247469	1.41E-04	0.00332548	1.39655263

Dytn	A2CI98	-3.0248328	-1.978599	-6.3809539	1.48E-04	0.00341463	1.34525533
Uck1	P52623	-2.0323174	-3.2827573	-6.0844933	2.10E-04	0.00473989	0.99095967
Ogdh	Q60597	-2.1161285	-0.1343181	-5.9570434	2.44E-04	0.00542478	0.83481632
Nup210	Q9QY81	-2.0731104	-1.1762274	-5.81998	2.88E-04	0.00629675	0.66427845
Hspa1l	P16627	3.9566946	0.32858234	5.69615537	3.35E-04	0.00721028	0.50785492
Snx6	Q6P8X1	2.93629081	-1.7107014	5.66249403	3.49E-04	0.00739728	0.46494174
Pgm3	Q9CYR6	2.51591936	-2.3164289	5.63340208	3.62E-04	0.00754923	0.42771898
Zzef1	Q5SSH7	2.22673873	-2.9751936	5.50212801	4.27E-04	0.00858733	0.25819361
P01753	NA	-2.4222609	1.22509541	-5.4938742	4.31E-04	0.00858733	0.24744907
Dbt	P53395	-3.0006093	-1.3510696	-5.5086079	4.23E-04	0.00858733	0.26662186
Flna	Q8BTM8	-1.5845116	1.30965062	-5.4443747	4.59E-04	0.00900768	0.18279832
Dera	Q91YP3	-2.5011601	-1.9441655	-5.394876	4.89E-04	0.00934206	0.11778198
Uqcrb	Q9D855	-3.0221008	-2.6588726	-5.3929199	4.90E-04	0.00934206	0.11520512
Ablim1	Q8K4G5	2.47132632	-1.5815901	5.27531836	5.70E-04	0.0107112	-0.0407739
Adh5	P28474	1.81465853	1.66464741	5.2551347	5.85E-04	0.01084177	-0.0677534
Dlst	Q9D2G2	-1.3533533	1.97565435	-5.1395295	6.80E-04	0.01243147	-0.2234668
Hcfc1	Q61191	1.47527342	-0.200427	5.09891561	7.18E-04	0.01293571	-0.2786503
Plrg1	Q922V4	-1.4540781	-2.7985984	-5.0746221	7.41E-04	0.01317871	-0.3117778
Arhgef1	Q61210-5	-1.9285331	-1.7668988	-4.9806306	8.39E-04	0.01473309	-0.4407872
Zcchc8	Q9CYA6	-2.0353739	-2.5894452	-4.9133359	9.18E-04	0.01591265	-0.5339724
Me2	Q99KE1	1.68877919	0.39628313	4.87899665	9.62E-04	0.01645181	-0.5817861
Chchd3	Q9CRB9	-1.5887198	-0.183773	-4.8370308	0.00101809	0.01676709	-0.6404597
Polr2b	Q8CFI7	-2.2477415	-2.4290096	-4.8448844	0.00100732	0.01676709	-0.6294592
Nat10	Q8K224	-2.6846396	-2.4992497	-4.8465653	0.00100503	0.01676709	-0.627106
Rars1	Q9D0I9	-2.5195233	-1.8347253	-4.8002349	0.00107023	0.01741084	-0.6921227
Tars1	Q9D0R2	-1.936486	-1.335687	-4.7819443	0.00109722	0.01763476	-0.717879
Stom	P54116	-4.1226948	-2.0310758	-4.7539934	0.00113988	0.01810235	-0.7573355
Septin11	Q8C1B7	-1.3282799	-1.3203314	-4.7385229	0.00116426	0.01827199	-0.7792243
Smarb1	Q9Z0H3	-2.0548619	-1.7813746	-4.7026557	0.00122297	0.01897023	-0.8301094
Tmem160	Q9D938	-2.3625764	-3.2821994	-4.6656089	0.00128697	0.01973359	-0.882869
Ppp6r1	Q7TSI3	-2.3072515	-3.3663411	-4.5824222	0.00144422	0.02189307	-1.0020792
Nfkb1	P25799	-2.2790234	-2.578925	-4.5397638	0.00153277	0.02297432	-1.0636061
Ankrd44	B2RXR6	-1.6823506	-2.9432827	-4.5059037	0.00160721	0.0238224	-1.1126327
Rnh1	Q91VI7	-1.1398905	-0.2617634	-4.4470079	0.0017461	0.02512836	-1.1983066
Nop56	Q9D6Z1	-2.2463694	-1.3325496	-4.4554078	0.00172553	0.02512836	-1.1860567
Mcm7	Q61881	-4.4653859	-2.0861558	-4.4446882	0.00175183	0.02512836	-1.2016913
Igtp	Q9DCE9	-1.6583707	-2.5583047	-4.3789901	0.00192271	0.02728616	-1.2978729
Msmo1	Q9CRA4	4.32618867	-0.6749881	4.31707678	0.00210019	0.0285883	-1.3890777
Snx2	Q9CWK8	2.91942059	-1.2290442	4.33557609	0.00204539	0.0285883	-1.3617694
Evl	P70429	-1.675071	-1.5177607	-4.3217349	0.00208625	0.0285883	-1.3821969
Paics	Q9DCL9	-2.4594089	-1.7032983	-4.3212378	0.00208773	0.0285883	-1.3829311
Eef1e1	Q9D1M4	-1.2187241	-2.1360067	-4.3087213	0.00212545	0.02863997	-1.4014278
Prmt5	Q8CIG8	-2.7808355	-1.7860408	-4.2999852	0.00215222	0.0287106	-1.414351
Eif3d	O70194	-2.9043207	-1.5598194	-4.2767923	0.00222504	0.02938813	-1.4487115
Hectd3	Q3U487	2.2081946	-2.43698	4.23334968	0.00236863	0.03097793	-1.5132745
Caprin1	Q60865	-2.2617794	-2.6809251	-4.0904714	0.00291509	0.0377547	-1.7274388
Septin7	O55131	-1.5506679	0.43591036	-4.0823263	0.00295005	0.03784013	-1.7397304
Mthfd1l	Q3V3R1	-1.164332	-0.6756065	-4.0129769	0.00326648	0.04149982	-1.8447368
Sumo2	P61957	1.90755238	-0.8978	3.96989898	0.00348108	0.04339967	-1.9102768
Gbp2	Q9Z0E6	-3.3262855	-1.6868169	-3.9742904	0.00345853	0.04339967	-1.9035847
Dhx15	O35286	-1.052466	0.52919883	-3.908498	0.00381327	0.047110096	-2.004099
Dpysl2	O08553	-1.4271247	0.02892789	-3.8816942	0.0039687	0.04812951	-2.0452022
Arhgap45	Q3TBD2	-1.8173176	-0.223951	-3.8834412	0.00395837	0.04812951	-2.0425207
Dars1	Q922B2	-1.1216214	0.56195581	-3.8581262	0.00411093	0.04896408	-2.0814156
Mvp	Q9EQK5	-1.6196985	-2.674093	-3.8601746	0.00409835	0.04896408	-2.0782655

Table S12: Antibodies used in this study

Protein targets	Assays	Company and product code
Socs3	WB	Cell Signaling Technology #52113
HDAC8	WB/ChIP	Cell Signaling Technology #66042
p-HDAC8	WB	Thermo Fisher Scientific # PA5-105031
Ace-SMC3	WB	Thermo Fisher Scientific #65728
p-ERK	WB	Cell Signaling Technology #4370
p-p38	WB	Cell Signaling Technology #4511
p-LCK	WB	Cell Signaling Technology #70926
p-AKT	WB	Cell Signaling Technology #4060
p-Zap70	WB	Cell Signaling Technology #2717
p-SLP76	WB	Cell Signaling Technology #76384
H3K27ac	ChIP	Cell Signaling Technology #8173
β-Actin	WB	Cell Signaling Technology #8457
Goat anti-rabbit IgG	WB	Cell Signaling Technology #7074
Pacific Blue anti-CD4	Flow cytometry	BD Biosciences #558107
FITC anti-CD8a	Flow cytometry	Thermo Fisher Scientific #11-0087-42
FITC anti-CD25	Flow cytometry	BD Biosciences #553072
Alexa Fluor™ 700 anti-Ki-67	Flow cytometry	Thermo Fisher Scientific #56-5698-82
PE-Cyanine 5.5 anti-Foxp3	Flow cytometry	Thermo Fisher Scientific #35-5773-82
APC anti-IL-2	Flow cytometry	Thermo Fisher Scientific # 17-7021-82
PE anti-IFN-γ	Flow cytometry	BioLegend # 505808
Alexa Fluor™ 700 anti-IFN-γ	Flow cytometry	Thermo Fisher Scientific # 56-7311-82

Table S13: The number of cells for each cell subset per flow cytometry

Fig.1f: Flow cytometric analysis of cell numbers in TC-1 tumors from CD4-Cre and HDAC8^{-/-} groups						
	CD4-Cre			HDAC8 ^{-/-}		
CD4	3484	5680	2744	12416	18720	14520
CD8	8040	12496	6272	18236	24960	20592

Fig.1g: Flow cytometric analysis of cell numbers of IFNγ expression by CD4/CD8+ T cells within TC-1 tumors in CD4-Cre and HDAC8^{-/-} groups						
	CD4-Cre			HDAC8 ^{-/-}		
CD4+IFNγ+	1578	2885	1413	7797	11194	9031
CD8+IFNγ+	5008	8234	4001	14497	18769	14846

Fig.2b: Flow cytometric analysis of cell numbers of CD4/CD8+ T cells within HCC tumors in DMSO and HDAC8i groups(10 days)						
	DMSO			HDAC8i		
CD4	53676	49588	44748	37706	45920	45342
CD8	23643	26059	20988	33516	65520	35838
CD4+CD25+	6656	4949	2381	2289	2177	2231
CD4+Foxp3+	1487	988	1782	1231	967	850

Fig.2c: Flow cytometric analysis of cell numbers of CD4/CD8+ T cells within HCC tumors in DMSO and HDAC8i groups(21 days)						
	DMSO			HDAC8i		
CD4	19511	4509	69560	52160	98604	48146
CD8	43164	38105	57152	84353	97235	81450
CD4+CD25+	6263	1551	13286	19091	34413	15022
CD4+Foxp3+	755	985	538	340	3878	745

Fig.3a: Flow cytometric analysis of cell numbers of Ki-67, IL-2 and IFN-γ T cells within HCC tumors in DMSO and HDAC8i groups(10 days)						
	DMSO			HDAC8i		
Ki-67 in CD4+ T cells	27003	21902	17295	45758	21066	21177
Ki-67 in CD8+ T cells	7827	5339	8251	6063	3542	3442
IL-2 in CD4+ T cells	263	608	609	270	379	257
IL-2 in CD8+ T cells	271	341	334	328	242	361
IFN-γ in CD4+ T cells	3127	2268	2898	2978	982	1418
IFN-γ in CD8+ T cells	149	168	118	67	154	65

Fig.3b: Flow cytometric analysis of cell numbers of Ki-67, IL-2 and IFN-γ+ T cells within HCC tumors in DMSO and HDAC8i groups(21 days)						
	DMSO			HDAC8i		
Ki-67 in CD4+ T cells	3521	2704	2920	1081	3523	918
Ki-67 in CD8+ T cells	2819	3159	1914	1486	11175	1637
IL-2 in CD4+ T cells	1492	1627	406	1647	1694	2926
IL-2 in CD8+ T cells	1590	1841	1794	2385	1058	3996
IFN- γ in CD4+ T cells	761	734	219	1169	1325	2035
IFN- γ in CD8+ T cells	1018	1523	828	901	449	1916

Fig.4a: Flow cytometric analysis of cell numbers of CD4+CD25+ and CD8+CD25+ T cells in CD4-Cre and HDAC8^{-/-} groups						
	CD4-Cre			HDAC8 ^{-/-}		
CD4+CD25+ T cells	81411	88953	14547 6	296140	18042 9	145143
CD8+CD25+ T cells	43887	41471	63489	158722	82152	61912

Fig.4c: Flow cytometric analysis of cell numbers of CD4+IL-2+ T cells in CD4-Cre and HDAC8^{-/-} groups						
	CD4-Cre			HDAC8 ^{-/-}		
CD4+IL-2(Fresh)	15639	17116	18231	127636	75179	79211
CD4+IL-2(PMA/ion 4h)	19281 5	23864 0	32041 6	118159 9	62586 3	618693

Fig.4d-e: Flow cytometric analysis of cell numbers of IL-2+ T cells in CD4-Cre and HDAC8^{-/-} groups						
	CD4-Cre			HDAC8 ^{-/-}		
CD4+IFN γ (Treg)	181	329	392	5235	5232	3284.4
CD4+IFN γ (Teff)	226	408	313	4633	4380	3141.6
CD8+IFN γ	2490	3731	2720	11881	10176	9765

Fig.6a: The stability of Foxp3 in lymph nodes and spleen was analyzed by flow cytometry 10 days after CD4-Cre and HDAC8^{-/-} Treg cells were injected into immunodeficient Rag1^{-/-} mice (n=3/group)						
	CD4-Cre			HDAC8 ^{-/-}		
CD4+Foxp3+(LN)	206018	144296	144775	152404	99172	120868
CD4+Foxp3+(SP)	191084	257961	111860	121334	108709	51060

Fig.6b: Flow cytometry was used to analyze Foxp3 within pooled (n=3/group) Treg cells from lymph nodes and spleens of CD4-Cre and HDAC8^{-/-} mice, as indicated (CD3/CD28 stimulation 24 h)						
	CD4-Cre			HDAC8 ^{-/-}		
CD4+Foxp3+(0h)	182965	179310	193758	188985	198036.5	183180
CD4+Foxp3+(24h)	161035	165571.5	149210	112015	97610	115240

Fig. S1: Conditional knockout of HDAC8 has negligible effects on T cell development.						
	Lymph nodes					
Group	CD4-Cre			HDAC8 ^{-/-}		
CD4+ T cells	1511395	1192556	1796754	1653718	2149616	2989350
CD8+ T cells	2274290	1556785	2571825	1634489	1760252	2212119
CD4+CD25+ T cells	190436	132374	166739	188524	211092	334807
CD4+Foxp3+ T cells	198713	129122	177150	194750	232117	336477
Foxp3+Ki-67+	23846	24404	36493	43624	44566	98588
CD4+Ki-67+	186096	131448	175336	188204	264964	409624
CD8+Ki-67+	153667	109735	212885	78264	122978	128439
CD4+CD69+	175322	143107	206627	234828	270852	388616
CD8+CD69+	221971	160349	233522	148738	154198	205285
CD4+CD44+CD62L-	90986	70957	110321	114437	124678	188030
CD8+CD44+CD62L-	90062	62116	129106	56553	91885	98439
	Spleen					
	CD4-Cre			HDAC8 ^{-/-}		
CD4+ T cells	4300156	4555431	6286342	6103082	6617638	7794909
CD8+ T cells	4409482	3973158	5837317	3614599	3933036	4061296
CD4+CD25+ T cells	481617	417733	588402	671339	681617	787286
CD4+Foxp3+ T cells	572069	640402	653730	785836	707118	763219
Foxp3+Ki-67+	89815	104385	72564	113160	65479	106851
CD4+Ki-67+	559722	792440	704891	733447	920473	947209
CD8+Ki-67+	278785	395720	440167	300477	400736	229232
CD4+CD69+	411525	642316	491592	707957	620734	622034
CD8+CD69+	146836	137471	165196	260251	314643	235149
CD4+CD44+CD62L-	915933	1179857	1307559	1440327	1343380	1520007
CD8+CD44+CD62L-	440948	480752	723827	437367	668616	592949
	Thymus					
	CD4-Cre			HDAC8 ^{-/-}		
CD4+ T cells	6800112	4785178	5613294	6007949	9428932	7629518
CD8+ T cells	1520402	790884	1168982	1493238	2343540	1759601
CD4+CD25+ T cells	201283	69864	221164	112349	236666	204471
CD4+Foxp3+ T cells	44548	28946	47718	37544	94159	57022
Foxp3+Ki-67+	6058	1931	9162	3942	7241	5702
CD4+Ki-67+	966632	792031	793861	762216	1336826	1090635
CD8+Ki-67+	35201	54902	58502	16067	93996	69223
CD4+CD69+	5392489	3713298	4400822	4523985	7128273	5577178
CD8+CD69+	588396	240429	403299	530099	857735	652812
CD4+CD44+CD62L-	248204	245480	315467	326832	467675	466164
CD8+CD44+CD62L-	86967	48718	107196	61671	70541	82349

Fig.S2a: Flow cytometric analysis of cell numbers of CD4/CD8+ T cells within HCC spleen in DMSO and HDAC8i groups(10 days)						
	DMSO			HDAC8i		
CD4	189476	196443	184470	234438	252120	206079
CD8	98490	109135	107844	123890	114600	104451
CD4+CD25+	29937	25145	34127	28367	26977	23905
CD4+Foxp3+	1342	980	1183	434	649	522

Fig.S2b: Flow cytometric analysis of cell numbers of CD4/CD8+ T cells within HCC spleen in DMSO and HDAC8i groups(21 days)						
	DMSO			HDAC8i		
CD4	154574	142926	188395	107120	233996	155568
CD8	58670	48388	72142	50182	99736	73247
CD4+CD25+	18858	21296	19970	15211	28548	21468
CD4+Foxp3+	984	897	905	1421	2990	1033

Fig.S3a: Flow cytometric analysis of cell numbers of Ki-67, IL-2and IFN-γ+ T cells within HCC spleen in DMSO and HDAC8i groups(10 days)						
	DMSO			HDAC8i		
Ki-67 in CD4+ T cells	27788	23203	26995	15702	17986	18248
Ki-67 in CD8+ T cells	11281	8307	7835	4564	5367	5649
IL-2 in CD4+ T cells	4459	7468	5059	9621	5853	5828
IL-2 in CD8+ T cells	1302	1562	1200	1842	1242	1280
IFN-γ in CD4+ T cells	899	922	750	1122	906	890
IFN-γ in CD8+ T cells	1009	1163	909	1051	878	744

Fig.S3b: Flow cytometric analysis of cell numbers of Ki-67, IL-2and IFN-γ+ T cells within HCC spleen in DMSO and HDAC8i groups(21 days)						
	DMSO			HDAC8i		
Ki-67 in CD4+ T cells	26187	15539	21756	26050	23765	18570
Ki-67 in CD8+ T cells	6148	5715	4642	7681	22150	6186
IL-2 in CD4+ T cells	8973	6970	2935	1432	6166	6829
IL-2 in CD8+ T cells	3970	4543	1795	759	2124	2921
IFN-γ in CD4+ T cells	3015	3050	1963	1359	2943	2549
IFN-γ in CD8+ T cells	6477	8411	5409	3793	6014	6873

Fig.S4a: Flow cytometric analysis of cell numbers of CD4/CD8+ T cells within HCC lymph nodes in DMSO and HDAC8i groups(10 days)						
	DMSO			HDAC8i		
CD4	490896	302400	409812	439760	612155	541872
CD8	190904	132480	137566	170168	185270	176490
CD4+CD25+	55471	32659	40448	38743	42177	36793
CD4+Foxp3+	810	416	342	273	271	194

Fig.S4b: Flow cytometric analysis of cell numbers of CD4/CD8+ T cells within HCC lymph nodes in DMSO and HDAC8i groups(21 days)						
	DMSO			HDAC8i		
CD4	558540	488796	395932	561974	410975	332304
CD8	189711	159390	145111	238791	178895	140070
CD4+CD25+	44236	32945	34486	43103	36906	35557
CD4+Foxp3+	1242	1170	1100	975	720	1584

Fig.S5a: Flow cytometric analysis of cell numbers of Ki-67, IL-2and IFN-γ+ T cells within HCC lymph nodes in DMSO and HDAC8i groups(10 days)						
	DMSO			HDAC8i		
Ki-67 in CD4+ T cells	30665	22462	18136	18246	14991	16327
Ki-67 in CD8+ T cells	6865	4481	3972	3009	3410	2827
IL-2 in CD4+ T cells	36688	11132	26070	25458	29841	32907
IL-2 in CD8+ T cells	2703	2604	3218	2811	3122	3667
IFN-γ in CD4+ T cells	4267	1033	1560	1238	2638	2003
IFN-γ in CD8+ T cells	2413	625	1905	1554	1329	1834

Fig.S5b: Flow cytometric analysis of cell numbers of Ki-67, IL-2and IFN-γ+ T cells within HCC lymph nodes in DMSO and HDAC8i groups(21 days)						
	DMSO			HDAC8i		
Ki-67 in CD4+ T cells	34902	24916	31462	24153	20276	28258
Ki-67 in CD8+ T cells	10704	9433	10091	7988	7625	13890
IL-2 in CD4+ T cells	78864	70762	54174	16403	24657	21921
IL-2 in CD8+ T cells	26911	23293	16696	2373	3009	14900
IFN-γ in CD4+ T cells	4433	5097	3902	1975	3158	3581
IFN-γ in CD8+ T cells	12843	14538	13009	6176	9174	11572

Fig.S6b-c: Flow cytometric analysis of cell numbers of CD4/CD8/Foxp3+ T cells within HCC tumors in CD4-Cre and HDAC8^{-/-} groups						
	CD4-Cre			HDAC8 ^{-/-}		
CD4(Tumor)	21952	21280	13440	28224	25648	35168
CD4(Spleen)	148736	150192	128352	176960	176064	157136
CD4(Lymph nodes)	288176	237776	240576	291200	362208	374864
CD8(Tumor)	23968	29456	16128	41552	42336	32032
CD8(Spleen)	76832	74928	96208	124208	123536	101472
CD8(Lymph nodes)	317520	498624	503664	346528	256928	282688
CD4+Foxp3(Tumor)	2432	2662	1431	2266	2216	3577
CD4+Foxp3(Spleen)	33480	34935	24284	33941	34456	26336
CD4+Foxp3(Lymph nodes)	46454	25941	25669	32207	52737	55367

Fig.S7: Flow cytometric analysis of cell numbers of Ki-67 within CD4/CD8/Foxp3+ T cells in CD4-Cre and HDAC8^{-/-} groups						
	CD4-Cre			HDAC8 ^{-/-}		
Ki-67/CD4(Tumor)	2465	5077	2148	7381	8028	15752
Ki-67/CD4(Spleen)	34254	35580	26081	30933	29913	31082
Ki-67/CD4(Lymph nodes)	29769	21495	23384	26587	27310	26428
Ki-67/CD8(Tumor)	4321	14389	5772	24391	26261	18998
Ki-67/CD8(Spleen)	12040	11427	14210	25177	24238	25064
Ki-67/CD8(Lymph nodes)	24894	38643	40343	20341	16752	19279
Ki-67/CD4+Foxp3+(Tumor)	410	1122	382	1263	1243	1703
Ki-67/CD4+Foxp3+(Spleen)	11209	11818	8463	11662	11422	9002
Ki-67/CD4+Foxp3+(Lymph nodes)	8603	5199	5845	6039	7552	8421
Ki-67/CD4+Foxp3-(Tumor)	1601	3549	1559	5879	6812	13963
Ki-67/CD4+Foxp3-(Spleen)	22475	23236	17317	18821	18013	21543
Ki-67/CD4+Foxp3-(Lymph nodes)	20546	15633	16569	19865	18940	17317

Fig.S8: Flow cytometric analysis of cell numbers of IL-2 within CD4/CD8/Foxp3+ T cells in CD4-Cre and HDAC8^{-/-} groups						
	CD4-Cre			HDAC8 ^{-/-}		
IL-2/CD4(Tumor)	134	72	99	541	545	580
IL-2/CD4(Spleen)	7090	11769	9296	18442	16363	18485
IL-2/CD4(Lymph nodes)	1192	1286	1663	2112	1755	1975
IL-2/CD8(Tumor)	17	24	15	71	215	162
IL-2/CD8(Spleen)	2592	3699	4079	7308	6016	6714
IL-2/CD8(Lymph nodes)	1879	2711	3415	1232	1474	1270
IL-2/CD4+Foxp3+(Tumor)	9	0	7	177	159	138
IL-2/CD4+Foxp3+(Spleen)	361	1015	1499	4888	3473	3787
IL-2/CD4+Foxp3+(Lymph nodes)	137	430	617	63	57	120
IL-2/CD4+Foxp3-(Tumor)	160	88	135	483	545	531

IL-2/CD4+Foxp3-(Spleen)	6667	5780	7853	14724	13909	15558
IL-2/CD4+Foxp3-(Lymph nodes)	2473	2789	2654	3188	3408	3477

Fig.S9: Flow cytometric analysis of cell numbers of IFN γ within CD4/CD8/Foxp3+ T cells in CD4-Cre and HDAC8^{-/-} groups

	CD4-Cre			HDAC8 ^{-/-}		
IFN γ /CD4(Tumor)	1864	917	841	1872	3112	3005
IFN γ /CD4(Spleen)	13231	12167	12464	26040	21917	21863
IFN γ /CD4(Lymph nodes)	3889	4013	2978	5234	5329	4776
IFN γ /CD8(Tumor)	661	394	332	516	3912	3344
IFN γ /CD8(Spleen)	23442	23257	25658	29958	24724	24917
IFN γ /CD8(Lymph nodes)	19389	7277	7790	22177	25343	21168
IFN γ /CD4+Foxp3+(Tumor)	0	8	7	130	184	192
IFN γ /CD4+Foxp3+(Spleen)	481	239	240	1175	1002	1063
IFN γ /CD4+Foxp3+(Lymph nodes)	638	1108	865	813	1024	896
IFN γ /CD4+Foxp3-(Tumor)	1606	805	728	1425	2585	2483
IFN γ /CD4+Foxp3-(Spleen)	12739	11451	12229	24693	20529	20488
IFN γ /CD4+Foxp3-(Lymph nodes)	3649	3458	2654	4555	4759	4554

Fig.S11: Conditional knockout of HDAC8 impairs the immunosuppressive function of Treg cells in ConA-mediated autoimmune hepatitis(n=3/group)

	Teff(WT)+Treg(WT)			Teff(WT)+Treg(HDAC8 ^{-/-})		
CD4+T cells	332800	262000	302800	340800	326000	361200
CD4+Foxp3+	21299	18733	25072	19153	17669	11956
IFN γ (Teff)	24577	30895	16414	40206	33916	24307
IFN γ (Treg)	1201	654	677	1107	1873	742
IL-2(Teff)	13332	6106	8971	4664	8695	21793
IL-2(Treg)	109	0	338	222	134	405
	Teff(HDAC8 ^{-/-})+Treg(WT)			Teff(HDAC8 ^{-/-})+Treg(HDAC8 ^{-/-})		
CD4+T cells	344800	172800	345200	373200	376800	374400
CD4+Foxp3+	18654	10558	20677	29520	17823	31075
IFN γ (Teff)	16862	5029	13241	82139	59949	20496
IFN γ (Treg)	1319	285	744	6406	3582	2467
IL-2(Teff)	4599	3423	9379	9726	14180	12634
IL-2(Treg)	95	95	372	744	1130	469

Fig.S13a: Flow cytometry analysis of CD4-Cre and HDAC8^{-/-} iTreg cells were stimulated with CD3/CD28 beads (1:1) plus TGF- β and IL-2 for the indicated times(n=3/group)

	CD4-Cre			HDAC8 ^{-/-}		
0h	34800	27600	25500	18900	21900	22400
24h	259400	199000	153600	251600	204000	164300
48h	549700	618000	661900	569100	629000	670800
72h	801600	735000	670400	854600	783000	702200

Table S14: Primers sequences used for real-time PCR and ChIP PCR

Target Genes	Primers sequences used for real-time PCR
CD4	Forward: AGATACCCCAGGTCTCGCTT Reverse: TGCCTGGCGCTGTTGG
CD8	Forward: TGAAGTGTTGGGGTCCGTTT Reverse: CATTGCAAACACGCTTTCGG
Foxp3	Forward: ATATGCGACCCCCTTTCACC Reverse: TTGGCTCCTCTTCTTGCGAA
Granzyme B	Forward: GGACATGAAGTCAAGCCCCA Reverse: CCCGAAAGGAAGCACGTTTG
IFN-γ	Forward: CGGCACAGTCATTGAAAGCC Reverse: TGCATCCTTTTTTCGCCTTGC
Fas	Forward: TGCTTGCTGGCTCACAGTTA Reverse: GAATCACTCCAACGGGCTGA
FasI	Forward: AGCAGTCAGCGTCAGAGTTC Reverse: GTACTGGGGTTGGCTCACG
IL-2	Forward: TGAGTCAGCAACTGTGGTGG Reverse: GCCCTTGGGGCTTACAAAAG
IL-6	Forward: GGGACTGATGCTGGTGACAA Reverse: AGCATTGGAAATTGGGGTAGGA
IL-17f	Forward: ACGTGAATTCCAGAACCGCT Reverse: TTGGAGATCGGGCTTACAC
β-Actin	Forward: TGAGCTGCGTTTTACACCCT Reverse: AAGTCAGTGTACAGGCCAGC
Target Genes	Primers sequences used for ChIP-PCR
Fas	Forward: CCTGAGGCTTCTTCATGGCA Reverse: GTCACCCTCCTTCCTCCT
FasI	Forward: CTAGCTGTGAGCACTCTCCC Reverse: AGCTGCAGATGTTTGCCTG
IL-2	Forward: TGCAGGAAGTTGTCCAGTCC Reverse: TGGTCCCAGTGTGATGGTG
IL-6	Forward: AGACCTTCAAGCCTCCTTGC Reverse: GCATTCTCCCCAGTGGTCTC
IL-17	Forward: TGTATTGGCAGTAGCCACCC Reverse: TGCACTGTATCCAGGCAAGG