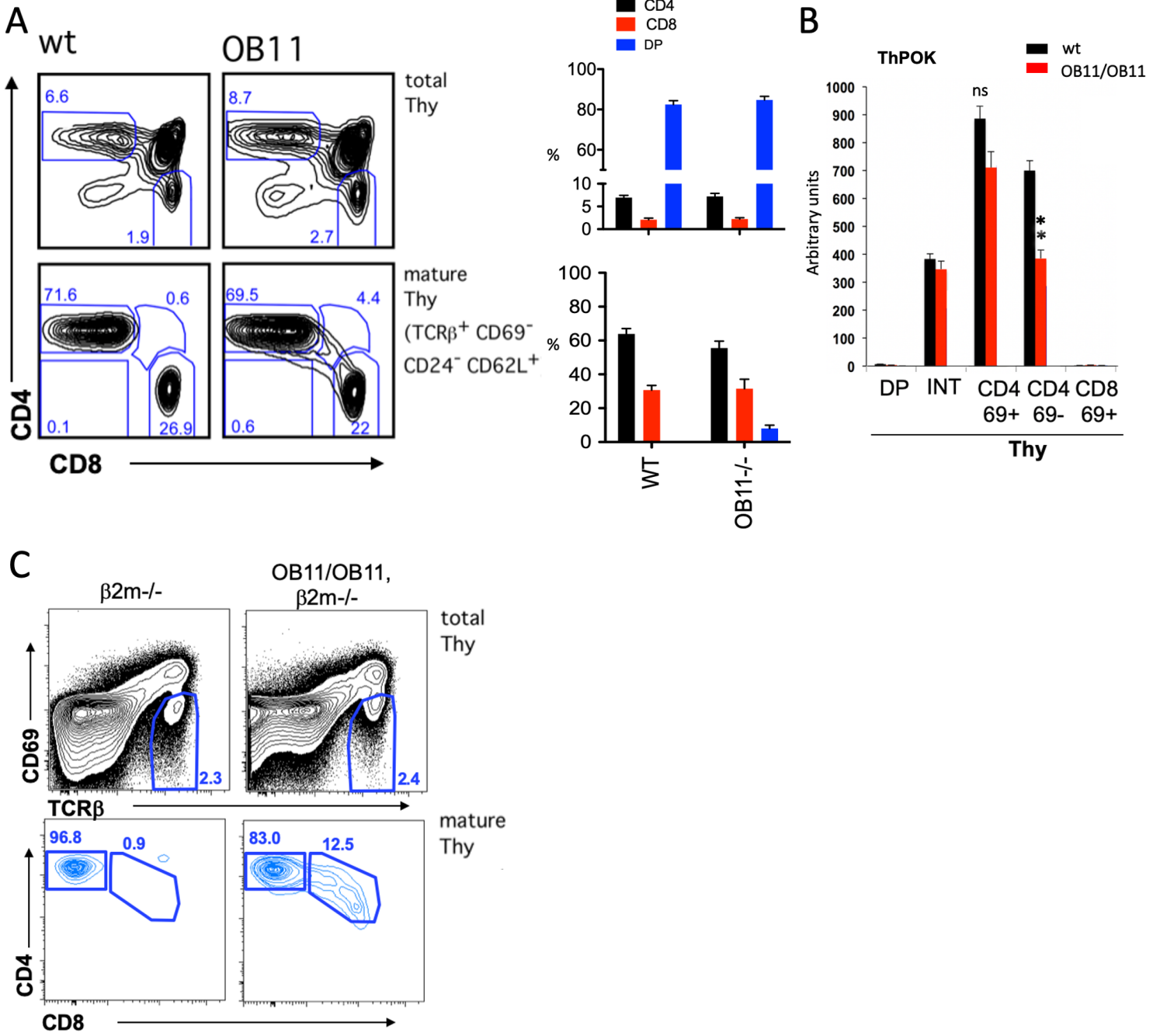
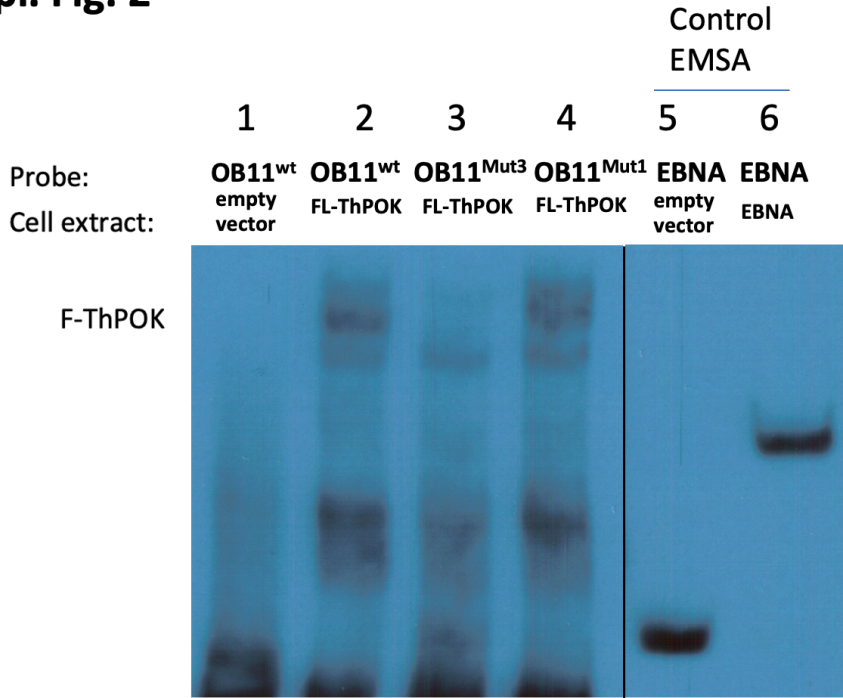


Suppl. Fig. 1

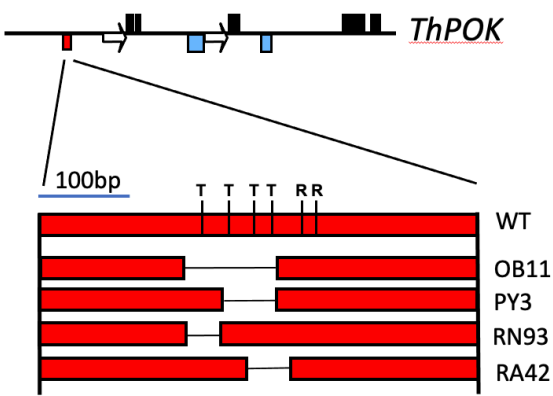


Suppl. Fig. 2

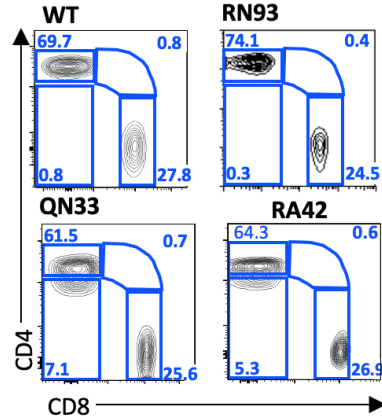
A



B



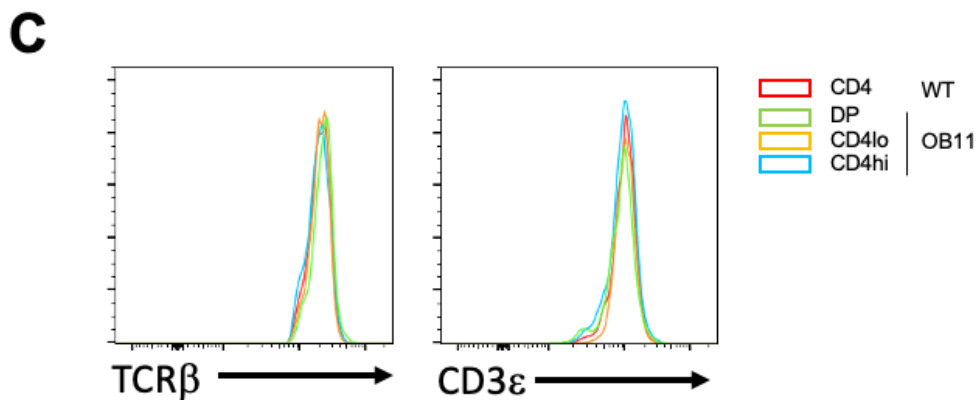
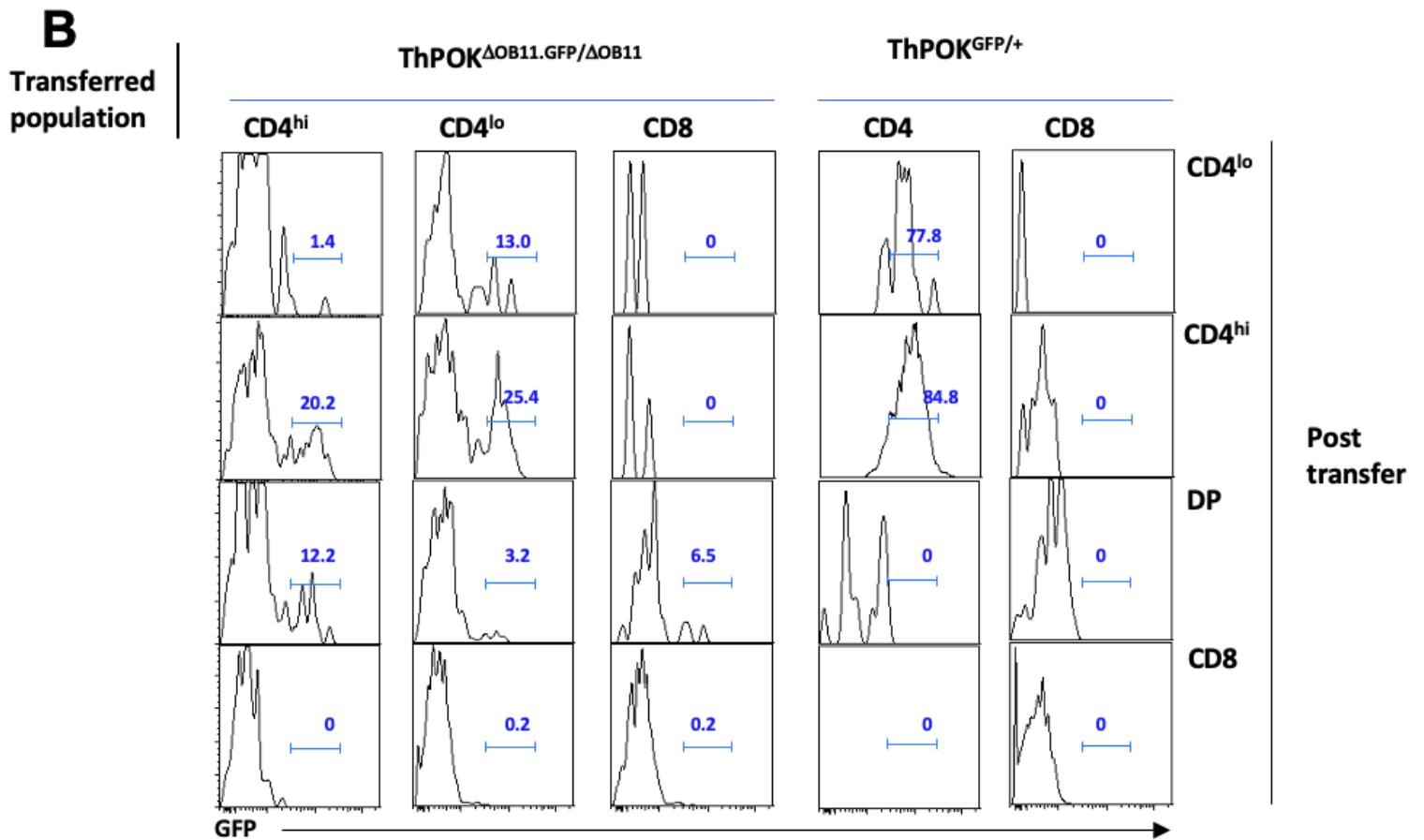
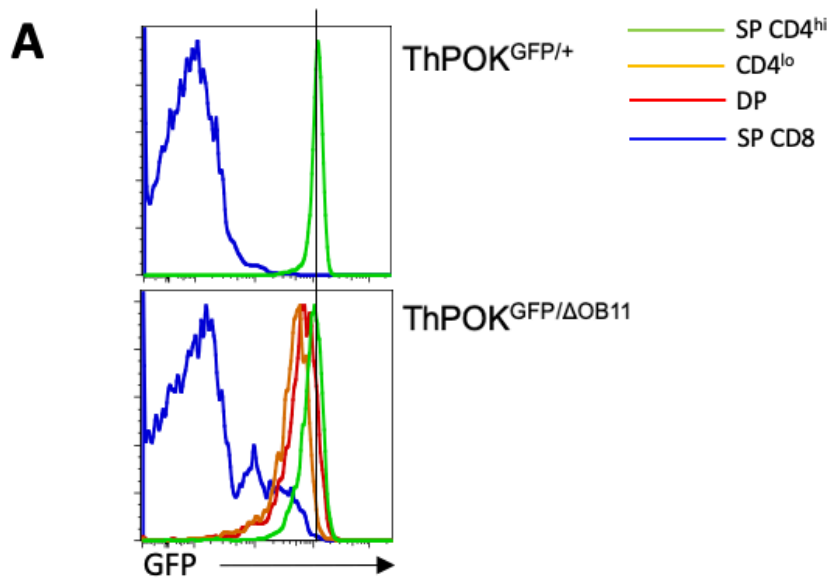
C



D

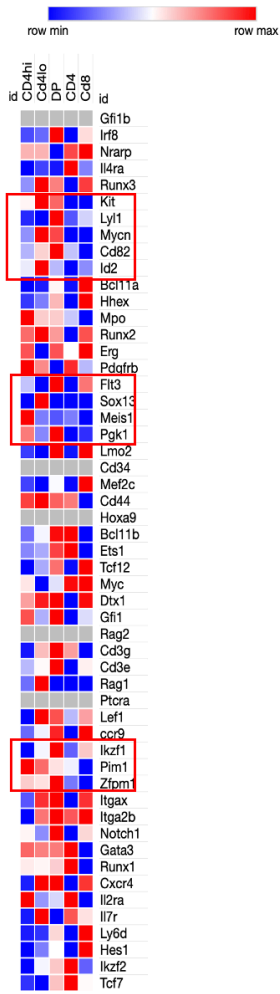
	Site 1	Site 2	Site 3	Site 4		
GCTACCCGCA	GGTGTGGGGG GTAGTCGGC	GGAGGGGG.TA	CCCTTGGCAG CCACCGCCTC	TTCAGGTGGG TTGGCGGTC GCGGTAGGGG	TTCTGGGGGG CGGCGGGAGG	WT (mouse)
GCCACCCGCA	GGTGTGGGG GgAGTCGGC	GGAGGGGGTA	CCCcTGGCAG CCACCGCCcC	TTCAGGTGGG TTGGCGGTC GCGGTgGGGG	cqCTGGGGGG CGGgGGGgGt	WT (human)
GCTACCCGCA	GGTGTaaGGa aTAGTCGGCa	aGAGaaaG.TA	CCCTTGGCAG CCACCGCCTC	TTCAGGTGGG TTaaGcaTC GCGGTAGGGG	TTCTGGGGGG CGGCGGGAGG	Mut ¹⁺³
GCTACCCGCA	GGTGTaaGGa aTAGTCGGC	aGAGaaaG.TA	CCCTTGGCAG CCACCGCCTC	TTCAGGTGGG TTGGCGGTC GCGGTAGGGG	TTCTGGGGGG CGGCGGGAGG	Mut ¹
GCTACCCGCA	GGTGTGGGGG GTAGTCGGC	GGAGGGGG.TA	CCCTTGGCAG CCACCGCCTC	TTCAGGTGGG TTaaGcaTC GCGGTAGGGG	TTCTGGGGGG CGGCGGGAGG	Mut ³
GCTACCCGCA	GGTGTGGGGG GTAGTCGGC	GGAGGGGGT.A	CCCTTc-----	-----	-----GGG CGGCGGGAGG	PY3
-----	-----	-----	-----GGCAG CCACCGCCTC	TTCAGGTGGG TTGGCGGTC GCGGTAGGGG	TTCTGGGGGG CGGCGGGAGG	RN93
GCTACCCGCA	GGTGTGGGGG GTAGTCGGC	GGAGGGGG.TA	CCCTTGGCAG CCACCGCCTC	TTCAGGTGGG TT-----	-----	RA42
GCTACCCGCA	GGTGTaaaaa GTAGTCaaCa	aaAGGGGG.TA	CCCTTGGCAG CCACCGCCTC	TTCAGGTGGG TTaaaaCaaTC GCGGTAGGGG	TTCTaaaaaa CaaCaaaaAaa	QN33

Suppl. Fig. 3

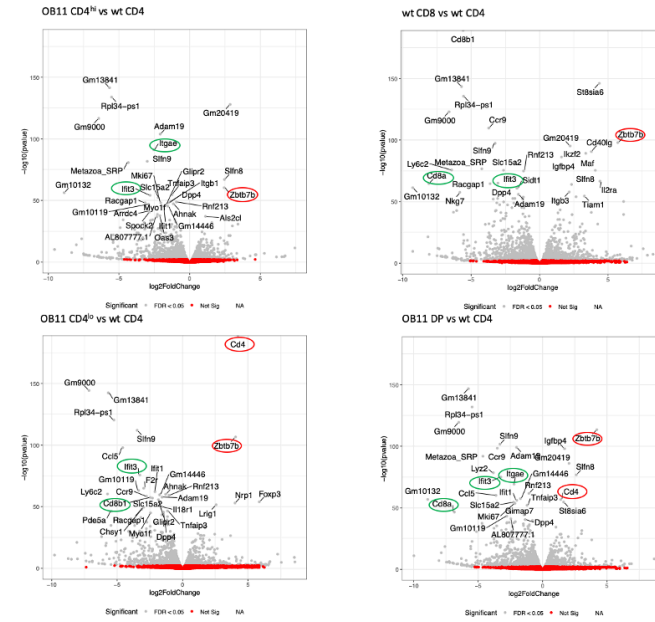


Suppl. Fig. 4

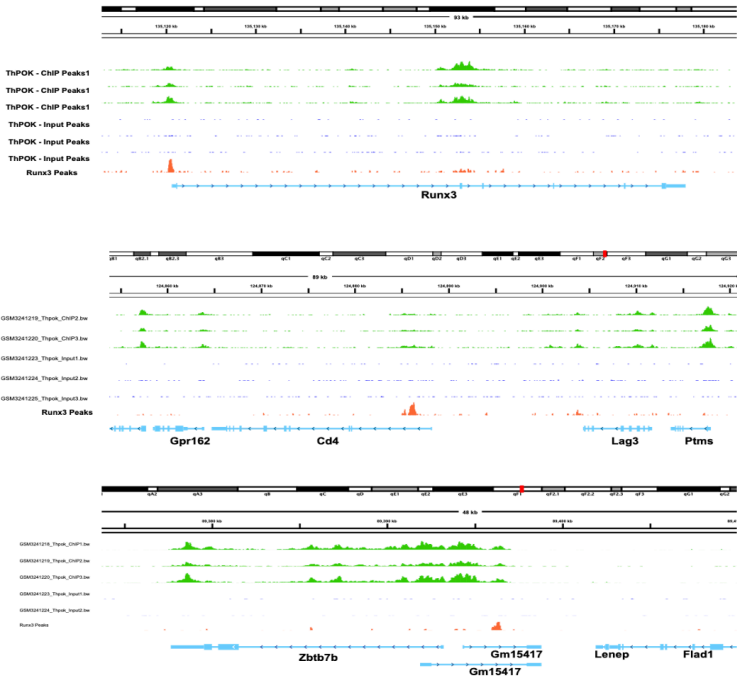
A



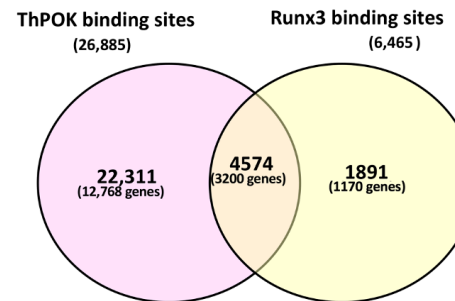
B



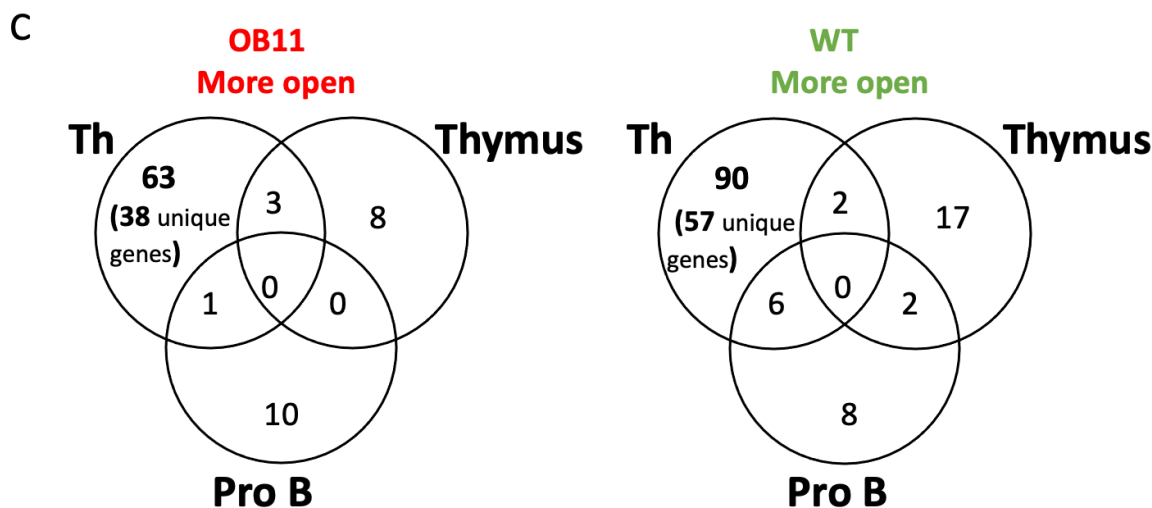
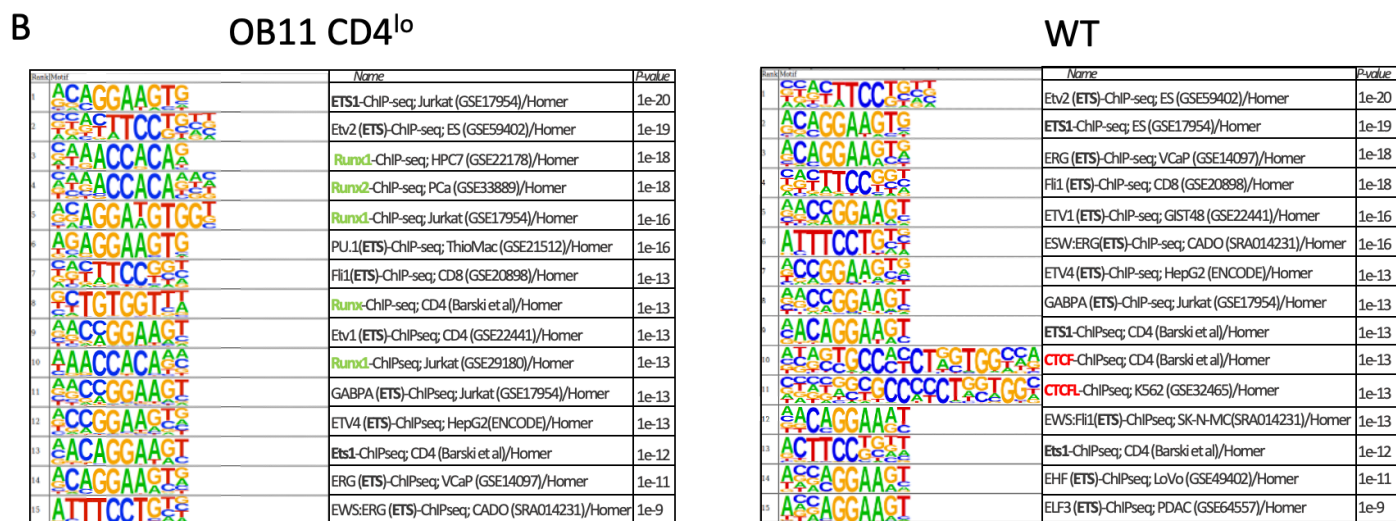
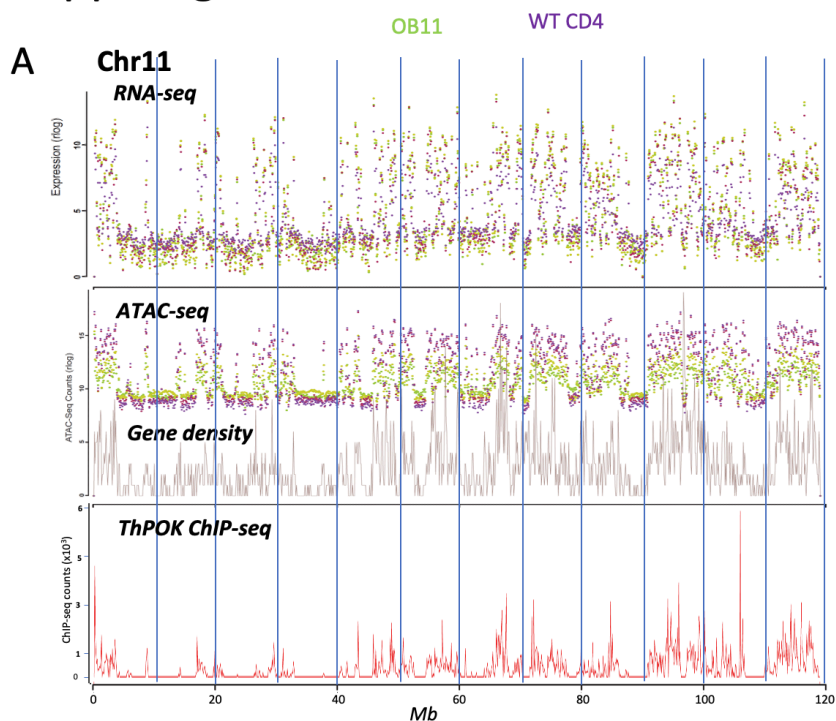
C



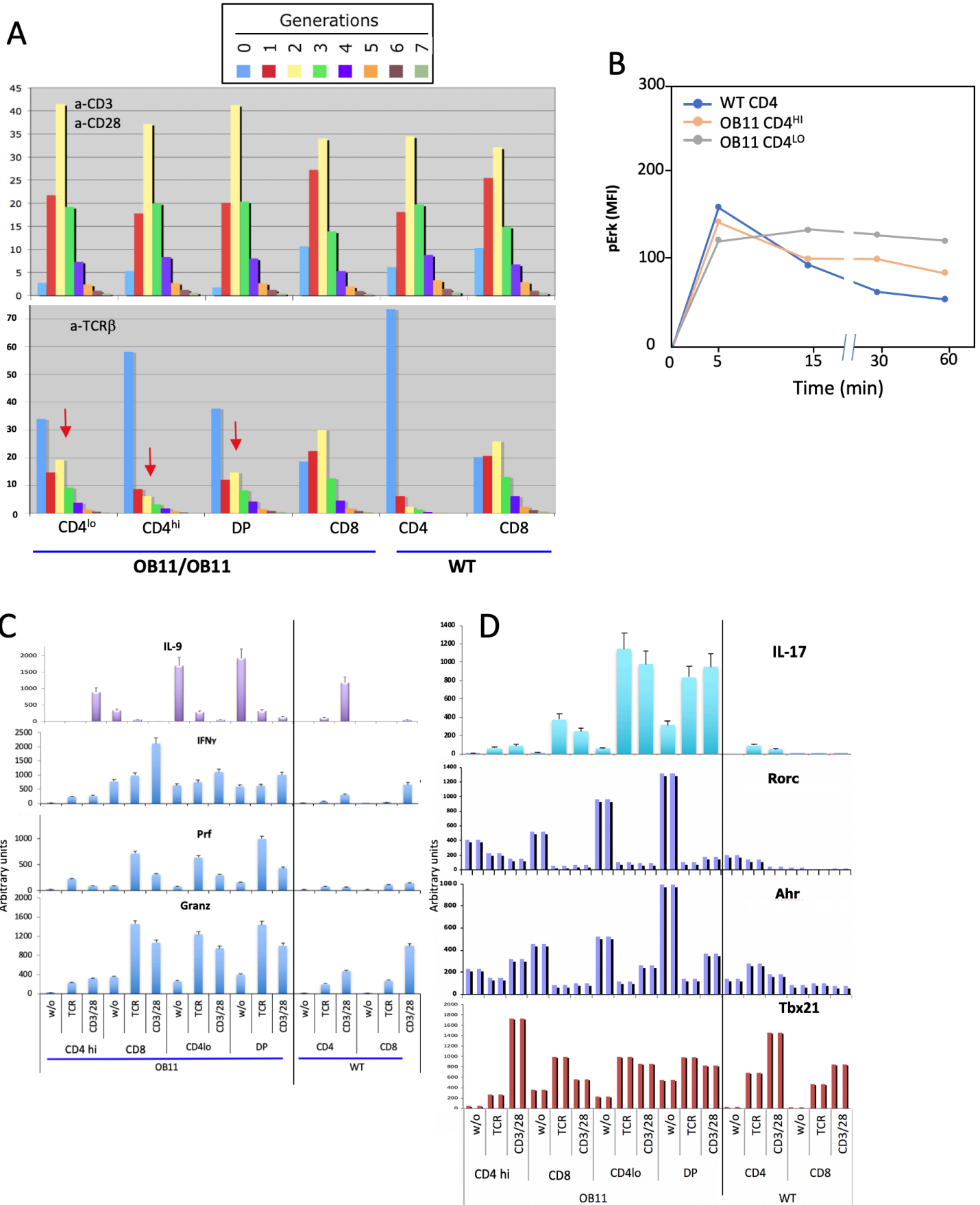
D



Suppl. Fig 5

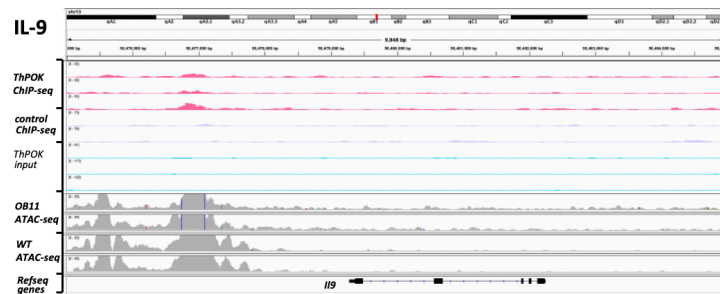
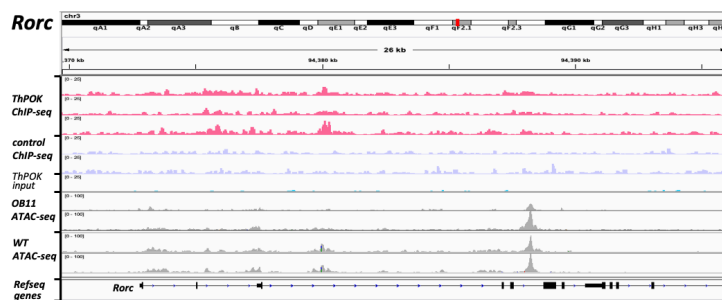
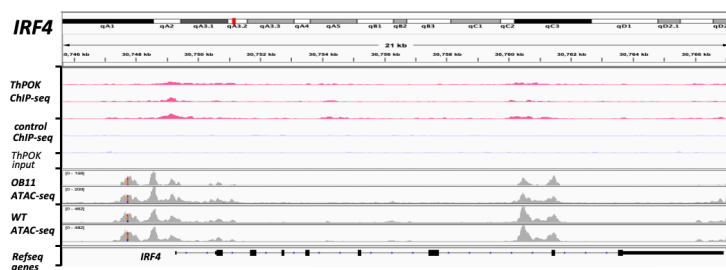
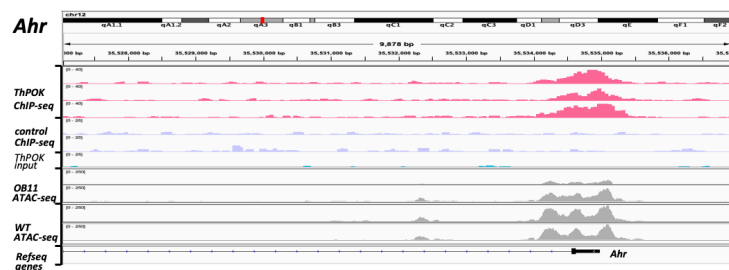


Suppl. Fig. 6

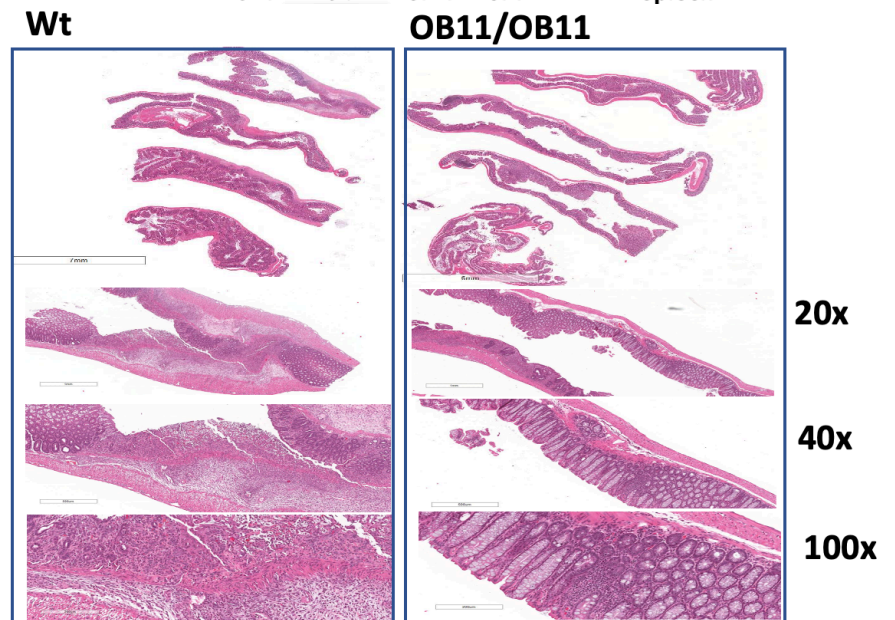
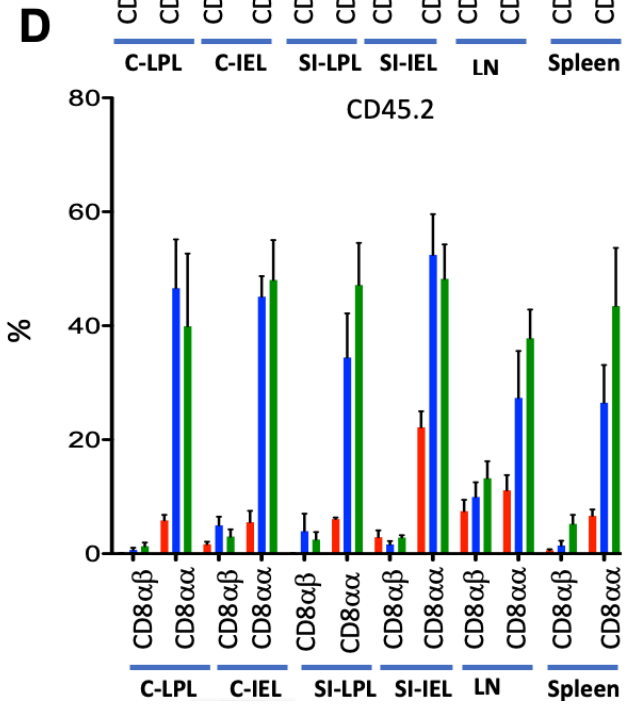
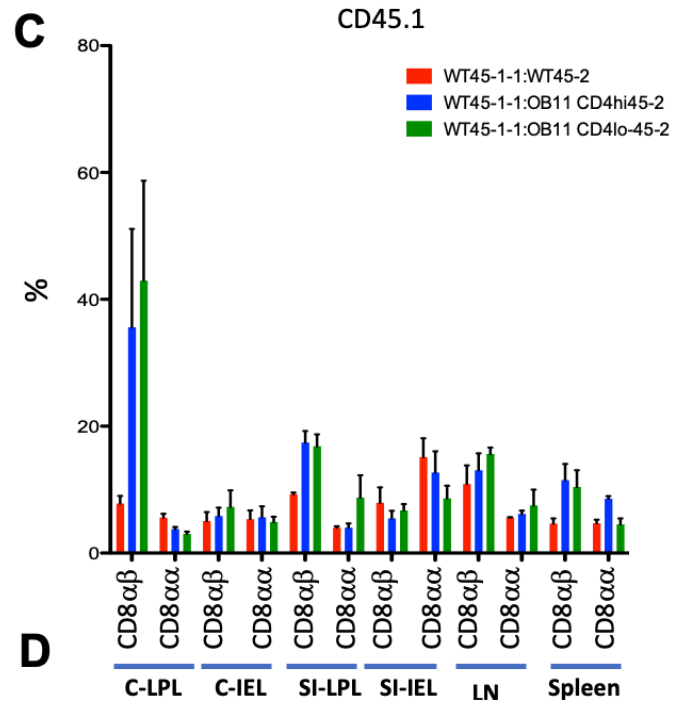
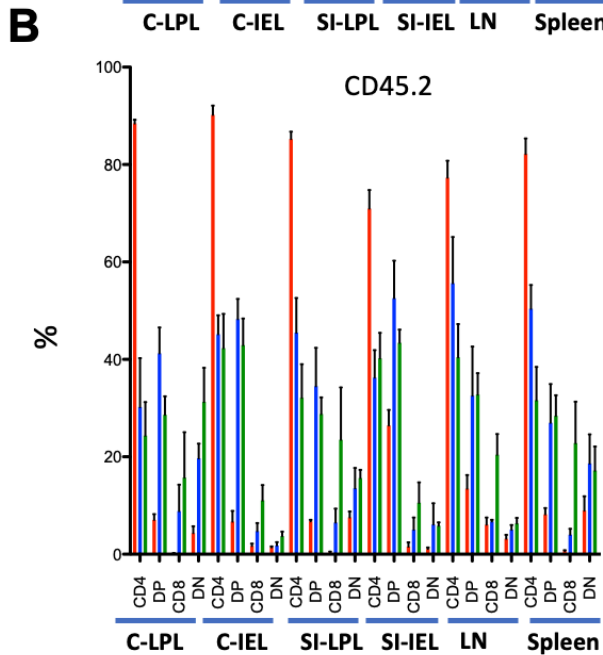
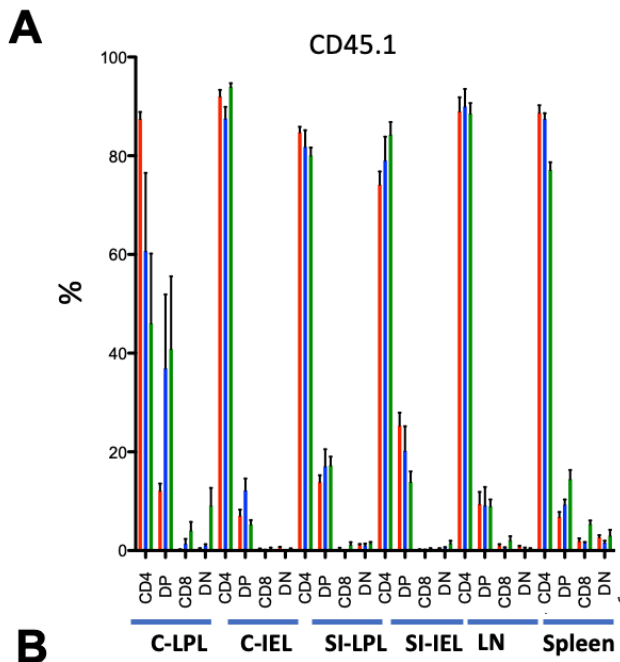


Suppl. Fig. 6

E

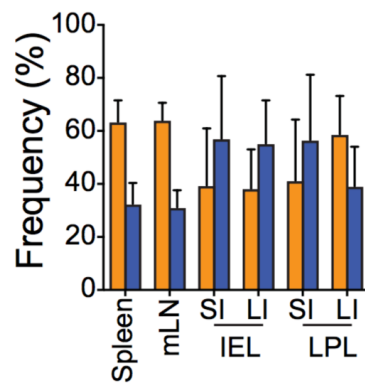


Suppl. Fig.7



Suppl. Fig.7

F



Suppl. Table 1a

76 genes bound by ThPOK + Runx3, DN in all OB11 subsets

Akna	Pag1
Amigo2	Phf1
Arhgef1	Polg
Arid3b	Prkd2
Armc8	Ptpn7
Atp1b1	Ptpra
Bbc3	Pura
Camk2d	Rab27a
Ccdc21 (=Cep85)	Rapgef6
Ccr7	Rasa1
Cd27	Rasa3
Cd2ap	Rasgrp1
Cdk2	Rassf2
Celf1	Rbm38
Cflar	Rgs14
Chd3	Rock1
Cnst	Sav1
Dock4	Sfpq
Dopey1	Skil
Dusp7	Slc44a1
Edem1	Smc6
Enc1	Srpk1
Erc1	Ssbp2
Fam3c	St6gal1
Gramd1a	St8sia4
Hjurp	Tes
Iqgap2	Tigit
Kcnn4	Tmcc1
Kidins220	Tnfaip812
Klhl3	Trim24
Mat2a	Tspan32
Mlit3	Vamp1
Mob3c	Vps13d
Mpp7	Zbtb20
Msl1	Zbtb37
Mum1	Znrf1
Myo10	
Naa16	
Nrip1	
Oxct1	

136 genes bound by ThPOK +Runx3, UP in all OB11 subsets

2410006H16Rik	Daxx	Naca	Topbp1
2700089E24Rik	Dazap2	Ndc80	Tpx2
5430417L22Rik	Dennd4a	Ndufa10	Tra2b
Actr2	Dnajb1	Nfatc3	Traf4
Adcy3	Dnajb9	Nsmaf	Tspan3
Ag1	Dusp1	Pabpc1	Ubxn11
Agpat4	Eef1a1	Pfkip	Usp18
Agri	Eef2		Vasp
Ahnak	Ehd1	Plaur	Vps13a
Ap1s2	Ehd4	Plekho2	Xdh
Arhgap26	Eif4b	Pmepa1	Xrn2
Arhgap30	Eif5a	Ppp1r9b	Ywhae
Arl2bp	F2r	Prf1	Zbp1
Arpc1b	Fau	Psap	Zc3h6
Arrdc3	Fos	Ptp4a1	Zc3hav1
Atf7ip	Gbp4	Ptp4a2	Zswim6
Atp8b4	Ggt1	Rab8a	
Atrn1	H2-Q4	Rarg	
AW112010	H2-Q6	Rnf157	
B4galt5	H2afy	Rpl10a	
Birc5	Hipk1	Rpl18a	
Casc4	Hmga1	Rpl21	
Ccdc102a	Hspa5	Rpl27a	
Ccdc117	Ifih1	Rpl30	
Cct7	Ifit3	Rplp2	
Cd72	Il2rb	Rps12	
Cd97	Incenp	Rras2	
Cdt1	Irf9	Runx3	
Celsr1	Irs2	Scarna2	
Cep152	Junb	Scpep1	
Chmp4b	Klf11	Sibp	
Chst11	Klk8	Slc16a6	
Chsy1	Lgals1	Slc25a4	
Clic4	Ly9	Sp140	
Cmah	Mafk	Stat1	
Cmpk2	Map1lc3b	Stat2	
Cst7	Mbnl1	Synj2	
Cxcs	Mex3a	Tapbp1	
D4Wsu53e	Mical1	Thy1	
D930015E06Rik	Mtap4	Tmem66	

Suppl. Table 1b

132 genes bound by ThPOK only, DN in all OB11 subsets

1700020I14Rik	Dhx40	Mns1	St8sia6
2010016I18Rik	Dst	Mthfd2	Syt12
2610035D17Rik	Dtnb	Nacc2	Tbc1d30
4930481A15Rik	Eea1	Nav2	Tcf7
Abhd14b	Eno1	Nbeal1	Tecpr1
Acadvl	Epas1	Nek4	Tesc
Actn4	Epb4.1l1	Npc1	Tgfb2
Acvrl1	Exoc3	Nrn1	Tnfaip8
Afap1	Exoc6b	Nrp1	Trio
Agtrap	F2r1	Nup153	Ttc28
Als2cl	Fam177a	Nxpe3	Ttyh3
App	Fanci	Parp3	Vipr1
Arhgap29	Fkbp1a	Pecam1	
Arhgef11	Fmni3	Polr1a	
Arsb	Fubp1	Ppm1j	
Atxn1	Galnt10	Ptms	
Aven	Galnt6	Ptpn13	
Axl	Ggt5	Ptpn6	
Bin1	Gm4944	Pvr	
Btg2	Gpatch4	Qser1	
Cacnb1	Hadh	Rab6b	
Ccdc109b	Hspa1b	Rassf3	
Cd2	Hspbap1	Rbm5	
Cd200	Igfbp4	Rcan3	
Cd4	Ikzf2	Rnf122	
Cd5	Il6st	Rnf144a	
Cd52	Itgb3	Rpl29	
Cecr5	Itpr2	Rpl34	
Chdh	L1cam	Rps3a	
Clec2d	Lair1	Rsu1	
Clip1	Lats2	S1pr1	
Cnn3	Ldlr	Sfn	
Coro7	Lrig1	Sft2d2	
Cpm	Ly6c1	Sh3bgrl3	
Cpt1a	Macf1	Sipa1l2	
Cyb5r4	Mapk11	Sit1	
Cyp2s1	Me2	Slc30a4	
Dapk1	Mib2	Slfm8	
Ddit4	Mical3	Snape1	
Dgkd	Mical1	St8sia1	

286 genes bound by ThPOK only, UP in all OB11 subsets

2310044G17Rik	Cd274	Fam129a	Id2	Mx1	Rab11fip1	Sifn1	Wdct1
2410001C21Rik	Cdc20	Fam179b	Ifi2712a	Mx2	Racgap1	Sifn5	Wipf1
2700081O15Rik	Cdc25b	Fam73a	Ifi47	Myb	Rbl2	Sifn9	Wipf2
8430419L09Rik	Cdk5rap1	Fbxo32	Igtp	Myo1f	Rcn1	Smap2	Wnt5b
9430015G10Rik	Cdk5rap2	Fcgr3	Ikzf3	Nap111	Repin1	Sorl1	Xaf1
A230050P20Rik	Cdk6	Ganc	Il18r1	Ncaph	Rnf114	Smchd1	Zfp516
AA465934	Cenpb	Gatad2a	Ildr1	Ncf1	Rora	Sorl1	Zfp69
Abcb1a	Cep250	Gbp10	Ipcef1	Ncl	Rorc	Srgap3	Zfp827
Acp5	Chst15	Gbp2	Iqgap1	Nkg7	Rpl10	Supt5h	
Acsf5	Coro2a	Gbp5	Iqsec1	Nlrc3	Rpl11	Syde1	
Adam11	Csda	Gbp6	Irf1	Npc2	Rpl17	Syf2	
Adam19	Ctsw	Gbp7	Irf7	Nrg2	Rpl24	Syn2	
Adar	Cuedc2	Gbp9	Irgc1	Nudc	Rpl28	Tagap	
Ahi1	Cxcl10	Gimap7	Irgm1	Oas3	Rpl3	Tapbp	
Ak3	Cyth4	Gilpr2	Irgm2	Oasl1	Rpl31	Tbx21	
Anp32b	D17H6S56E-5	Gltscr2	Isg15	Oasl2	Rpl32	Tdgf1	
Anxa2	Ddx24	Gm12250	Isg20	Orai2	Rpl34-ps1	Tgtp1	
Anxa6	Ddx43	Gm13212	Irgb1	Os9	Rpl41	Tgtp2	
Apobec3	Ddx58	Gm4902	Jun	Ostm1	Rpl6	Tlr12	
Arrdc4	Ddx60	Gpc1	Kcna2	Parp1	Rps15a	Tm6sf1	
Atp2b4	Dhx58	Gpr68	Kcnc1	Parp14	Rps20	Tnfaip3	
Atp6v1f	Dnaja4	Gramd1b	Kcnk5	Parp9	Rps24	Tnfrsf14	
Atp6v1h	Dock5	Gtf2i	Kif23	Pbxip1	Rps26	Tnfsf14	
Bace1	Dpp4	Gzmb	Kif3c	Pctp	Rps27	Top2a	
Bai2	Dse	H2-Oa	Klhl6	Pdcd6ip	Rps29	Tor3a	
Baiap3	Dtx1	H2-Ob	Lax1	Pde5a	Rpsa	Trafd1	
Baz1a	Dtx3l	H2-T23	Lgals3	Pfdn5	Rsad2	Trim12c	
BC006779	Efh2	Habp4	Lgals3bp	Pianp	Rtp4	Trim25	
Bcar3	Ehd3	Herc6	Limd1	Piga	Runx2	Trim30a	
Bend4	Eif1	Hip1r	Ltk	Pik3ap1	S100a10	Trp53i11	
Bhlhe40	Eif2ak2	Hist1h1b	Magohb	Pim2	S100a11	Tspyl3	
Bst2	Eif3h	Hist1h1c	Mast3	Plac8	S100a6	Ttbk2	
C130039O16Rik	Eif3j2	Hist1h2af	Mbd2	Plcg2	Sbno2	Tulp3	
Cacna2d2	Eml3	Hist1h2al	Mcm3	Plekho1	Scamp3	Uba7	
Camk2g	Eml5	Hist1h4a	Mcm4	Plxna1	Scarna13	Uba7	
Ccl5	Eno2	Hist1h4b	Mcm5	Pmaip1	Sh3bp5	Ubap2l	
Ccna2	Eomes	Hist4h4	Mcm6	Pml	Shmt2	Uhrf1	
Ccr5	Eps8l1	Hmgb2	Med12	Pole3	Sidt1	Usp11	
Ccr9	Fam107b	Hnrnpa1	Mfap1a	Ppp1r15a	Slc2a3	Usp24	
Ccrn4l	Fam111a	Icam1	Mki67	Prr13	Slc38a10	Vcpiip1	

Suppl. Table 2a

David analysis: 76 genes DN in OB11, bound by ThPOK + Runx3

KEGG_PATHWAY	mmu04660:T cell receptor signaling pathway	7	3.723404	6.91E-04	LAT, PTN6, PLCG1, FYN, RASGRP1, CD4, LCP2	83	101	7691	6.422164	0.105323	
97	KEGG_PATHWAY	mmu04660:T cell receptor signaling pathway	7	3.723404	6.91E-04	LAT, PTN6, PLCG1, FYN, RASGRP1, CD4, LCP2	83	101	7691	6.422164	0.105323
98	KEGG_PATHWAY	mmu04520:Adherens junction	6	3.191489	9.75E-04	PTN6, TCF7, FYN, TGFBR1, TGFB2, CTNNB1	83	72	7691	7.721888	0.145284
99	KEGG_PATHWAY	mmu04390:Hippo signaling pathway	8	4.255319	0.001086	TCF7, FRMD6, BRCC3, TGFBR1, SAV1, TGFB2, SCRIB, CTNNB1	83	151	7691	4.90928	0.160475
100	KEGG_PATHWAY	mmu04660:Cytokine-cytokine receptor interaction	9	4.787234	0.004096	CCR7, TNFRSF18, IL2RA, CXCR5, CCR4, TGFBR1, TGFB2, IL4RA, CD27	83	242	7691	3.446132	0.483603
102	KEGG_PATHWAY	mmu04650:Natural killer cell mediated cytotoxicity	6	3.191489	0.005118	PRKCA, LAT, PTN6, PLCG1, FYN, LCP2	83	105	7691	5.295009	0.562277
103	KEGG_PATHWAY	mmu04650:Natural killer cell mediated cytotoxicity	6	3.191489	0.005118	PRKCA, LAT, PTN6, PLCG1, FYN, LCP2	83	105	7691	5.295009	0.562277
104	KEGG_PATHWAY	mmu04664:Fc epsilon RI signaling pathway	5	2.659574	0.005828	PRKCA, LAT, PLCG1, FYN, LCP2	83	68	7691	6.81343	0.609757
105	KEGG_PATHWAY	mmu04664:Fc epsilon RI signaling pathway	5	2.659574	0.005828	PRKCA, LAT, PLCG1, FYN, LCP2	83	68	7691	6.81343	0.609757
106	KEGG_PATHWAY	mmu04015:Rap1 signaling pathway	8	4.255319	0.007609	PRKCA, LAT, PLCG1, RAPGEF6, RGS14, DOCK4, LCP2, CTNNB1	83	214	7691	3.464024	0.707638
107	KEGG_PATHWAY	mmu04640:Hematopoietic cell lineage	5	2.659574	0.012647	IL2RA, ITGA6, IL4RA, CD2, CD4	83	85	7691	5.450744	0.871162
108	KEGG_PATHWAY	mmu05210:Colorectal cancer	4	2.12766	0.030557	TCF7, TGFBR1, TGFB2, CTNNB1	83	64	7691	5.791416	0.993237
109	KEGG_PATHWAY	mmu04919:Thyroid hormone signaling pathway	5	2.659574	0.033108	PRKCA, ATP1B1, PLCG1, NCOA3, CTNNB1	83	114	7691	4.064151	0.995575
110	KEGG_PATHWAY	mmu04380:Osteoclast differentiation	5	2.659574	0.045176	CAMK4, FYN, TGFBR1, TGFB2, LCP2	83	126	7691	3.677089	0.999414

David analysis: 132 genes UP in OB11, bound by ThPOK + Runx3

Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrich	
1	GOTERM_BP_DIRECT	GO:006412:translation	18	6.896552	1.77E-05	EEF1A1, RPL19, SLC25A4, RPL26, RPL27A, RPL36, EIF5A, EEF2, VARS, EIF4B, RPL30, RPS17, RPL233	401	18082	3.485523	
2	GOTERM_BP_DIRECT	GO:0098609:cell-cell adhesion	12	4.597701	3.39E-05	COBLN1, ZC3HAV1, PFKF, EEF1G, DNAH1, STAT1, TAGLN2, CLINT1, VASP, PLEC, DXD6, EHD4	233	189	18082	4.927311
3	GOTERM_BP_DIRECT	GO:0051607:defense response to virus	10	3.831418	3.12E-04	IFIT3, PRF1, IFIH1, ZC3HAV1, BCL2, LYST, OAS3, IFNGR1, STAT2, ZBP1	233	167	18082	4.647015
4	GOTERM_BP_DIRECT	GO:1901653:cellular response to peptide	4	1.532567	6.84E-04	PPP1R9B, KLFL1, KLFA, KLFB	233	14	18082	22.1729
5	GOTERM_BP_DIRECT	GO:006414:translational elongation	5	1.915709	0.003057	EEF1A1, RPLP2, EIF5A, EEF1G, EEF2	233	47	18082	8.255867
6	GOTERM_BP_DIRECT	GO:0034097:response to cytokine	6	2.298851	0.003869	IL12RB2, FOS, MCL1, BCL2, STAT1, JUNB	233	81	18082	5.74853
7	GOTERM_BP_DIRECT	GO:0032458:endocytotic recycling	4	1.532567	0.003893	EHD1, ARL4C, EHD3, EHD4	233	25	18082	12.41682
8	GOTERM_BP_DIRECT	GO:0009615:response to virus	6	2.298851	0.00452	IFIT3, IFIH1, NPC2, ZC3HAV1, OAS3, EEF1G	233	84	18082	5.543225
9	GOTERM_BP_DIRECT	GO:0051260:protein homooligomerization	8	3.065134	0.0138	ANXA6, PRF1, EEF1A1, CHMP4B, ITPR3, EHD1, EHD3, EHD4	233	197	18082	3.151478
10	GOTERM_BP_DIRECT	GO:0051260:protein homooligomerization	8	3.065134	0.0138	ANXA6, PRF1, EEF1A1, CHMP4B, ITPR3, EHD1, EHD3, EHD4	233	197	18082	3.151478
11	GOTERM_BP_DIRECT	GO:0051050:regulation of small GTPase mediated signal transduction	3	1.149425	0.021908	SIPALL1, RAP1GAP2, ARHGAP26	233	18	18082	12.93419
12	GOTERM_BP_DIRECT	GO:002376:immune system process	11	4.214559	0.026465	IFIT3, PRKCK, IFIH1, NOD1, ZC3HAV1, PIK3CD, OAS3, SLAMF7, LYS, SEMA4A, ZBP1	233	383	18082	2.228869
13	GOTERM_BP_DIRECT	GO:0051591:response to cAMP	4	1.532567	0.027648	FOS, DUSP1, STAT1, JUNB	233	51	18082	6.086678
14	GOTERM_BP_DIRECT	GO:0030036:actin cytoskeleton organization	6	2.298851	0.036342	ACTR2, PPP1R9B, TMSB10, IQSEC1, VASP, ARHGAP26	233	142	18082	3.279091
15	GOTERM_BP_DIRECT	GO:0032496:response to lipopolysaccharide	7	2.681992	0.041883	IL12RB2, FOS, IL10RA, PLCG2, STAT1, JUNB, F2R	233	197	18082	2.757543

Suppl. Table 2b

DAVID analysis: 281 genes DN in OB11, bound by ThPOK only,

Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrich	
1	GOTERM_BP_DIRECT	GO:0035556:intracellular signal transduction	12	4.33213	0.019527	PRKD2, MAST4, TNS1, SP5B1, TIAM1, DGKD, PINK1, MAPK11, ARHGAP29, MYO9A, LATS2, DAPK1	244	400	18082	2
2	GOTERM_BP_DIRECT	GO:0030335:positive regulation of cell migration	8	2.888087	0.020154	IGF1R, S1PR1, ACTN4, TIAM1, CSF1, F2RL1, ITGB3, THBS1	244	203	18082	2
3	GOTERM_BP_DIRECT	GO:0018105:phosphorylation	6	1.266065	0.033864	PRKD2, MAST4, MYO3B, MAPKAPK3, PINK1, LATS2	244	133	18082	3
4	GOTERM_BP_DIRECT	GO:0016310:hepatoerythropoiesis	15	5.415162	0.037551	ACVRL1, MYO3B, MAPKAPK3, CASK, PINK1, MAPK11, DBERTD8E2, LATS2, DAPK1, GALK2, IGF1R, PRKD2	244	612	18082	1
5	GOTERM_BP_DIRECT	GO:0005769:early endosome	10	3.610108	0.002846	SH3GL3, CYP17, NRP1, LDLR, ATP9A, MIB2, F2RL1, INPP5F, EEA1, RIN3	256	226	19652	3
6	GOTERM_BP_DIRECT	GO:0016020:membrane	109	39.35018	0.014493	DYNCL1L2, IL6ST, ZFR1, CAPZL, CASK, CDS2, VIPR1, SLC26A11, SYP, KIF13A, PTGIR, S1PR1, TIAM1, UA	256	6998	19652	1
35	KEGG_PATHWAY	mmu04015:Rap1 signaling pathway	9	3.249097	0.006544	PRKD2, IGF1R, TIAM1, CSF1, SIPALL1, MAPK11, ITGB2, ITGB3, THBS1	101	214	7691	3
36	KEGG_PATHWAY	mmu05205:Proteoglycans in cancer	7	2.527076	0.048433	IGF1R, HIP1A, TIAM1, MAPK11, ITGB3, THBS1, ITPR2	101	203	7691	2

DAVID analysis: 432 genes UP in OB11, bound by ThPOK only,

Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrich	
1	GOTERM_BP_DIRECT	GO:0009615:response to virus	24	5.607477	1.43E-19	BST2, TRX21, RPS15A, RSAD2, CDK6, PIM2, CCL5, CXCL10, ISG20, DDX58, IFIT2, OASL2, IFI272L2A, DDX60	387	84		
2	GOTERM_BP_DIRECT	GO:006412:translation	43	10.04673	1.08E-17	RPL17, RPL36A, RBM3, EIF5, RPL15, RPL35, RPS15A, RPL38, RPS2, RPL39, RPS3, RPS26, RPS27, RPS28, RP	387	401		
3	GOTERM_BP_DIRECT	GO:002376:immune system process	41	9.579439	7.42E-17	APOBEC3, HMG8B, PML, RSAD2, ISG20, B2M, NLRCS, OASL2, OASL1, ITC3, MX1, MX2, DHX58, SYK, CD7, TI	387	383		
4	GOTERM_BP_DIRECT	GO:0051607:defense response to virus	27	6.308411	2.01E-15	APOBEC3, A23005OP20RIK, RNASEL, SLFN8, PML, RSAD2, PMAIP1, CXCL10, ISG20, NLRCS, IFI502, OASL2, I	387	167		
5	GOTERM_BP_DIRECT	GO:0045071:negative regulation of viral genome replication	13	3.073783	1.16E-12	APOBEC3, A23005OP20RIK, RNASEL, BST2, FAM111A, RSAD2, CCL5, ISG20, ISG15, OASL1, ERF2AK2, MX2, I	387	32		
6	GOTERM_BP_DIRECT	GO:0045087:innate immune response	34	7.943925	3.39E-11	APOBEC3, HMG8B, PML, RSAD2, ISG20, B2M, NLRCS, OASL2, OASL1, ITC3, MX1, MX2, DHX58, TEC, SYK, TL	387	400		
7	GOTERM_BP_DIRECT	GO:0025458:cellular response to interferon-beta	9	2.102804	2.07E-06	IRGM1, GBP6, IRGM2, IRF1, IFI47, TGT1, TGT2, GBP2, AIM2	387	41		
8	GOTERM_BP_DIRECT	GO:0005840:ribosome	36	8.411215	1.19E-23	RPL17, RPL36A, RPL15, RPS15A, RPL38, RPS2, RPL39, RPS3, PRMT3, RPS26, RPS27, RPS28, RPL6, RPL31, I	403	188		
9	GOTERM_BP_DIRECT	GO:0022625:cytosolic large ribosomal subunit	22	5.40187	1.11E-16	RPL35A, RPL17, RPL36A, ZFP622, RPL15, RPL35, RPL23A, RPL24, RPL38, RPL39, RPL28, RPL31, RPL6, RPL	403	91		
10	GOTERM_BP_DIRECT	GO:0030529:intracellular ribonucleoprotein complex	33	7.71028	1.35E-13	RPL17, RPL36A, RPL15, RPS15A, RPL38, RPS2, RPL39, RPS3, RPS26, RPS27, RPS28, RPL6, RPL31, RPLD	403	320		
11	GOTERM_BP_DIRECT	GO:0022627:cytosolic small ribosomal subunit	15	3.504673	2.08E-12	RPSA, RPS15A, RPS9, RPS6, RPS4X, RPS2, RPS3, RPS26, RPS27, RPS28, RPS16, RPS13, RPS20, RPS23, RPS2	403	53		
97	KEGG_PATHWAY	mmu03010:Ribosome	37	8.64486	9.50E-26	RPL17, RPL36A, RPL15, RPS15A, RPL38, RPS2, RPL39, RPS3, RPS26, RPS27, RPS28, RPL6, RPL31, R	205	145		
98	KEGG_PATHWAY	mmu05168:Herpes simplex infection	19	4.49252	9.19E-06	GLTSCR2, RNASEL, H2-M3, SDCS3, PML, TNFSF14, TNFRSF14, CCL5, H2-O6, H2-Q7, DDX58, H2-OA, JUN, IRI	205	208		
99	KEGG_PATHWAY	mmu04612:Antigen processing and presentation	12	2.803738	9.40E-06	CTSL, KLRC2, H2-OA, H2-M3, H2-O8, IFNG, H2-T22, H2-T23, H2-Q6, H2-Q7, B2M, TAPBP	205	82		
100	KEGG_PATHWAY	mmu04940:Type 1 diabetes mellitus	10	2.336449	3.27E-05	CPE, H2-OA, H2-M3, H2-O8, IFNG, H2-T22, H2-T23, GZMB, H2-O6, H2-Q7	205	62		
101	KEGG_PATHWAY	mmu05332:Graft-versus-host disease	9	2.102804	5.89E-05	H2-OA, H2-M3, H2-O8, IFNG, H2-T22, H2-T23, GZMB, H2-O6, H2-Q7	205	52		
102	KEGG_PATHWAY	mmu05330:Allograft rejection	9	2.102804	1.02E-04	H2-OA, H2-M3, H2-O8, IFNG, H2-T22, H2-T23, GZMB, H2-O6, H2-Q7	205	56		
54	KEGG_PATHWAY	mmu03010:Ribosome	10	3.831418	7.88E-04	RPL30, RPL19, RPS17, RPL21, RPL27A, RPL26, RPL36, RPLP2, FAU, RPL10A	132	145	7691	4.018286
55	KEGG_PATHWAY	mmu04630:Iak-STAT signaling pathway	10	3.831418	7.88E-04	IL12RB2, IRF9, IL2RB, STAT4, IL12RB1, IL10RA, PIK3CD, STAT1, IFNGR1, STAT2	132	145	7691	4.018286
56	KEGG_PATHWAY	mmu05162:Measles	9	3.448276	0.002171	IRF9, PRKCQ, IL2RB, IFIH1, PIK3CD, OAS3, STAT1, IFNGR1, STAT2	132	136	7691	3.855782
57	KEGG_PATHWAY	mmu05168:Herpes simplex infection	11	4.214559	0.002822	IRF9, FOS, IFIH1, SRSF5, SP100, GTF2J, OAS3, STAT1, DAXX, IFNGR1, STAT2	132	208	7691	3.08133
58	KEGG_PATHWAY	mmu04380:Osteoclast differentiation	8	3.065134	0.005586	IRF9, FOS, PLCG2, PIK3CD, STAT1, JUNB, IFNGR1, STAT2	132	126	7691	3.699375
59	KEGG_PATHWAY	mmu04380:Osteoclast differentiation	8	3.065134	0.005586	IRF9, FOS, PLCG2, PIK3CD, STAT1, JUNB, IFNGR1, STAT2	132	126	7691	3.699375
60	KEGG_PATHWAY	mmu05321:inflammatory bowel disease (IBD)	5	1.915709	0.01778	IL12RB2, STAT4, IL12RB1, STAT1, IFNGR1	132	59	7691	4.937725
61	KEGG_PATHWAY	mmu05321:inflammatory bowel disease (IBD)	5	1.915709	0.01778	IL12RB2, STAT4, IL12RB1, STAT1, IFNGR1	132	59	7691	4.937725