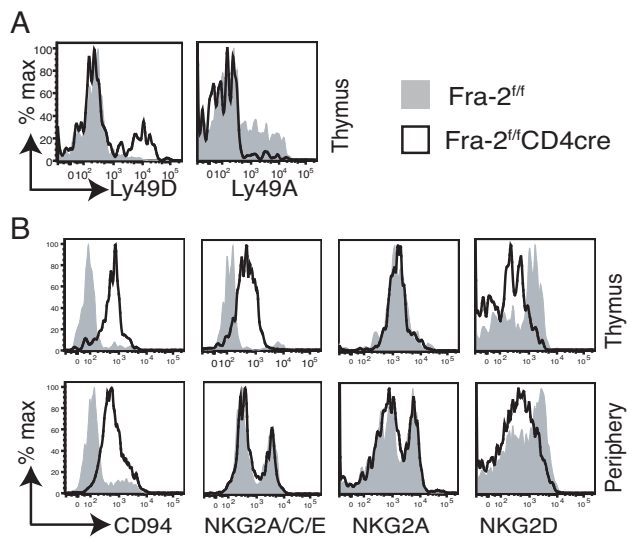
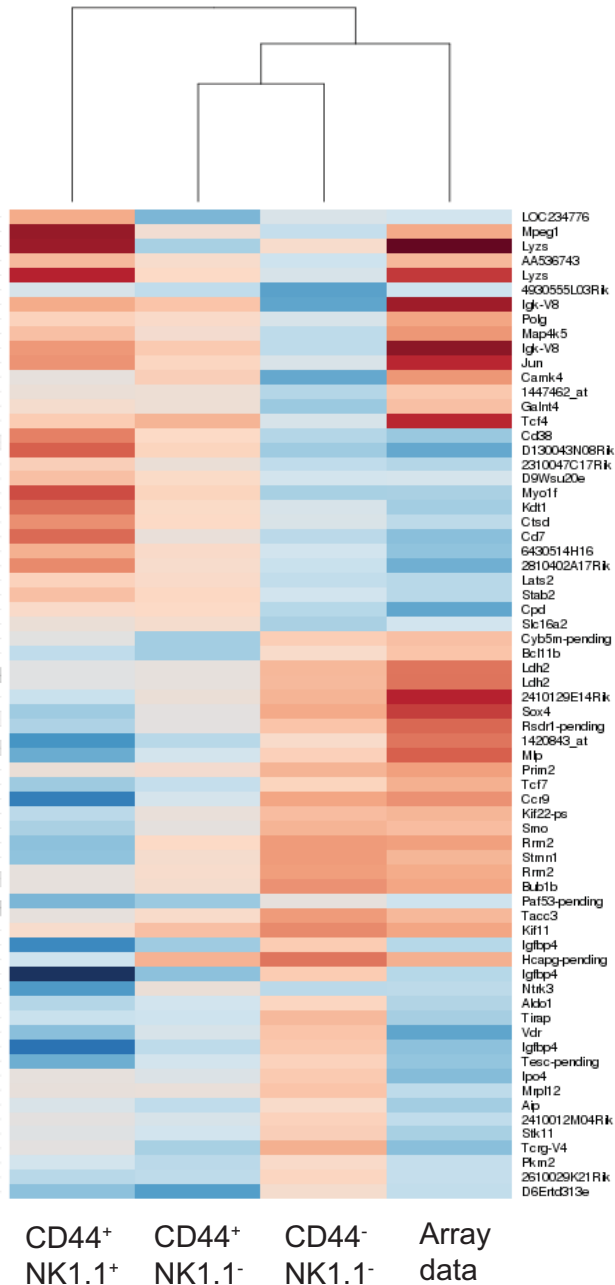
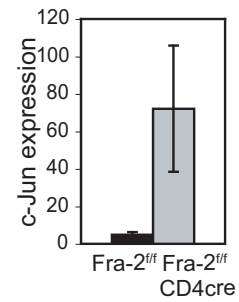


Supplementary Figure 1: Expression of the CD4-Cre transgene has no effect on iNKT cell numbers. Data are representative of multiple experiments using littermate controls on a mixed C57Bl6:CBA/Ca background.



Supplementary Figure 2

(A) Ly49A and D staining of thymic iNKT cells from Fra2^{fl/fl} (grey shaded) and Fra2^{fl/fl} CD4Cre (black line) mice. (B) NKG2 and CD94 staining of iNKT cells from thymus and liver of Fra2^{fl/fl} (grey shaded) and Fra2^{fl/fl} CD4Cre (black line) mice.

A**B****Supplementary Figure 3.**

(A) clustering analysis of microarray data.

comparison of microarray data from this study with array data for different stages of NKT cell development from Matsuda et al. (Blood 107:2797). Clustering is shown by the tree at the top, where vertical distance indicates dissimilarity. Red indicates increased and blue decreased expression in each array.

(B) Validation of increased c-Jun expression upon Fra2 knockout q-RT-PCR of Jun mRNA. Histogram represents mean of triplicates, error bars: SD Fra-2^{fl/fl}: grey shaded). Fra-2^{fl/fl} CD4cre: black.

Supplementary Table 1. Changes in expression^a of putative AP-1 and ATF-2-regulated genes in Fra-2-deficient thymic iNKT cells

		Binding sites in promoter			
		AP-1		ATF-2	
Nebi	17.08	Usp3	2.11	Slc16a5	14.07
Spg3a	10.83	Ccl27	2.08	Tspan2	6.68
Tcf4	9.13	Pfkfb2	2.07	Mllt10	3.79
Col27a1	7.64	Zhx3	2.04	Depdc5	3.66
Tcf12	5.9	Eaf1	2.04	Pvr	3.19
Kcnh3	5.52	Stat5b	1.9	Cdc73	3.1
Eno2	5.13	Tcfef	-2.04	Brca1	2.9
Dhrs3	4.9	Peal5	-2.11	Pten	2.88
Spats2	4.84	Acpp	-2.12	Nfat5	2.67
Spred1	4.82	Nln	-2.13	Pou6f1	2.51
Ppp2ca	4.09	Atp6v0a1	-2.14	Trim24	2.44
Bach1	3.87	Nrld1	-2.21	Ppm1e	2.33
Ssbp3	3.73	Abca2	-2.22	Birc5	2.23
Ccr9	3.2	Tob1	-2.26	Fas	2.13
Ly6d	3.68	Rgs2	-2.34	P2ry10	2.12
Myb	3.64	Aldoa	-2.35	Trio	-2.19
Ras111b	3.62	Ela1	-2.38	Usp20	-2.3
Rtn4	3.54	Ragef6	-2.42	Spa17	-3.83
Phf3	3.22	Pitpnc	-2.48	Il4	-4.49
Map4k5	3.05	S100a10	-2.51		
Gfi1	3.03	Tgm3	-2.56		
Gsn	2.92	Rbpms	-2.61		
Ankrd28	2.85	Pkp3	-2.65		
Nasp	2.78	Ang	-2.66		
Srpk2	2.39	Ibrdc2	-2.67		
Axud1	2.31	Sgms1	-2.7		
Gpr56	2.28	Elov11	-2.76		
Tcf7	2.27	Sec24d	-2.81		
Rtn3	2.25	Vamp5	-3.14		
Ube2c	2.23	Limk1	-3.17		
Sipal11	2.22	Isg20	-3.25		
Arntl	2.18	Vdr	-3.35		
Slc31a1	2.16	Gpnmb	-3.36		
Psme4	2.14	Ddr1	-3.51		
Abi3	2.12	Rgs3	-4.17		
Ulk1	2.11	Synpo	-5.69		

^aFold change indicates Fra-2^{fl/fl} CD4cre/ Fra-2^{fl/fl}. Values derived from averages of triplicate microarrays of sorted thymic iNKT cells of each genotype.

Supplementary Table 2: Genes changed ≥ 2 -fold ($p \leq 0.19$) in expression in Fra-2-deficient thymic iNKT cells. Fold change indicates Fra-2^{fl/fl} CD4cre/ Fra-2^{fl/fl}. Values derived from averages of triplicate microarrays of sorted thymic iNKT cells of each genotype. Yellow background: genes of interest in iNKT and DP development. Grey background: genes in common with Matsuda *et al* (Blood 107:2797)

	FC	symbol	locusID
1435048_at	-11.99	Al854703	243373
1449567_at	-9.47	Tktl1	83553
1416645_a_at	-9.44	Afp	11576
1421411_at	-8.09	Pstpip2	19201
1442026_at	-7.91	Al467657	102538
1416225_at	-7.57	Adh1	11522
1440808_x_at	-7.39	E430002D04Rik	244233
1453046_at	-7.26	1700110I01Rik	73549
1438937_x_at	-7.19	Rnase4	58809
1456321_at	-6.71	Npal1	70701
1422189_x_at	-6.50	Tcrg	110067
1438635_x_at	-6.49	B930041F14Rik	230991
1428792_at	-6.43	Bcas1	76960
1419853_a_at	-6.41	P2rx7	18439
1421410_a_at	-6.37	Pstpip2	19201
1443626_at	-6.33	Chn2	69993
1455000_at	-6.24	Gpr68	238377
1450521_a_at	-6.22	Tcrg	110067
1459813_at	-5.93	1700012D01Rik	72243
1450989_at	-5.91	Tdgf1	21667
1440875_a_at	-5.79	Rsad1	237926
1456986_at	-5.71	Zbtb16	235320
1434089_at	-5.70	Synpo	104027
1422188_s_at	-5.68	Tcrg	110067
1417546_at	-5.67	Il2rb	16185
1428285_at	-5.59	8430427H17Rik	329540
1426511_at	-5.52	Susd2	71733
1420735_at	-5.52	Gabbr2	14409
1451335_at	-5.44	Plac8	231507
1418465_at	-5.37	Ncf4	17972
1426766_at	-5.29	6330403K07Rik	103712
1435857_s_at	-5.28	Aplp1	11803
1422804_at	-5.27	Serpnb6b	20708
1420114_s_at	-5.22	2410022L05Rik	66423
1421187_at	-5.18	Ccr2	12772
1447707_s_at	-5.11	Pde2a	207728
1422438_at	-4.94	Ephx1	13849
1444595_at	-4.85		
1422758_at	-4.84	Chst2	54371
1434272_at	-4.83	Cpeb2	231207
1436959_x_at	-4.82	Nelf	56876
1418175_at	-4.71	Vdr	22337
1418018_at	-4.68	Cpd	12874
1451313_a_at	-4.67	1110067D22Rik	216551
1440147_at	-4.66	Lgi2	246316
1449110_at	-4.64	Rhob	11852
1429267_at	-4.60	Acot11	329910
1429971_at	-4.59	Txnrd2	26462

1441045_at	-4.55		
1418507_s_at	-4.55	Socs2	216233
1420549_at	-4.54	Gbp1	14468
1450136_at	-4.51	Cd38	12494
1449864_at	-4.49	Il4	16189
1440207_at	-4.47	Agpat7	99010
1440386_at	-4.45	Glce	93683
1438316_a_at	-4.37	Ccdc102a	234582
1452008_at	-4.36	1810054D07Rik	69863
1420444_at	-4.34	Slc22a3	20519
1434313_at	-4.32	Ccdc126	57895
1452558_at	-4.31		
1428803_at	-4.27	Acot6	217700
1449826_a_at	-4.26	Fgf2	14173
1456226_x_at	-4.25	Ddr1	12305
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1455869_at	-4.23	Camk2b	12323
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1420700_s_at	-4.18	Folr4	64931
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1449175_at	-4.17	Gpr65	14744
1417071_s_at	-4.17	Cyp4v3	102294
1441938_x_at	-4.17	LOC635753	635753
1436325_at	-4.17	Rora	19883
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1429831_at	-4.10	Pik3ap1	83490
1459997_s_at	-4.08	Tmem17	103765
1422775_at	-4.07	Blk	12143
1445562_at	-4.05	Zbtb16	235320
1423824_at	-4.04	Gpr177	68151
1418451_at	-4.03	Gng2	14702
1424226_at	-4.02	9030617O03Rik	217830
1435913_at	-3.98	B4galnt4	330671
1432103_a_at	-3.97	Sh3gl3	20408
1448380_at	-3.97	Lgals3bp	19039
1421396_at	-3.93	Pcsk1	18548
1436479_a_at	-3.93	Dpp7	83768
1420372_at	-3.92	Sntb2	20650
1415943_at	-3.90	Sdc1	20969
1418250_at	-3.86	Arfl4	66182
1417635_at	-3.86	Spa17	20686
1435820_x_at	-3.86	Ddr1	12305
1420984_at	-3.85	Pctp	18559
1437279_x_at	-3.84	Sdc1	20969
1421137_a_at	-3.83	Pkib	18768
1429682_at	-3.81	4930431B09Rik	74645
1434684_at	-3.80	Rin3	217835

1455746_at	-3.79	Kif13a	16553
1438035_at	-3.78	AW061290	381110
1424775_at	-3.77	Oas1g	23960
1436068_at	-3.77	Zbtb10	229055
1419416_a_at	-3.75	Rarg	19411
1416896_at	-3.74	Rps6ka1	20111
1450296_at	-3.74	Klrb1a	17057
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1455405_at	-3.67	Pstpip2	19201
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1450484_a_at	-3.63	Tyki	22169
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1460437_at	-3.55	Pscd4	72318
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1436879_x_at	-3.53	Afp	11576
1453596_at	-3.53	Id2	15902
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1418403_at	-3.50	Adam19	11492
1441969_at	-3.49	Trim36	28105
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1437247_at	-3.38	Fosl2	14284
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1439808_at	-3.31	A130090K04Rik	320495
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1428385_at	-3.29	Mar-08	71779
1455994_x_at	-3.29	Elov11	54325
1419711_at	-3.28	Cd7	12516
1427802_a_at	-3.28	Tcrg	110067
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1427573_at	-3.27	Chic1	12212
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1458151_at	-3.25	Myo1e	71602
1438687_at	-3.25	Lax1	240754
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1419272_at	-3.24	Myd88	17874
1431193_at	-3.23	Taf4b	72504
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1444765_at	-3.22	Rbpms	19663
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1455640_a_at	-3.14	Txn2	56551
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1428902_at	-3.08	Chst11	58250
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1417781_at	-3.08	Lass4	67260
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1442024_at	-3.06	Ppp1r3e	105651
1457491_at	-3.05	Plekha1	101476
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1420113_s_at	-3.02	2410022L05Rik	66423
1457653_at	-3.02	A630042L21Rik	106894
1445054_at	-3.02	Foxn2	14236
1429315_at	-3.01	Syt11	229521
1424318_at	-2.98	1110067D22Rik	216551
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1424127_at	-2.94	Eya2	14049
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1424953_at	-2.93	BC021614	225884
1420321_at	-2.93	Rsad1	237926
1421656_at	-2.93	Spry2	24064
1427442_a_at	-2.93	App	11820
1449052_a_at	-2.93	Dnmt3b	13436
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1434340_at	-2.92	1110020P15Rik	66152
1422991_at	-2.91	Pik3cd	18707
1434128_a_at	-2.91	Zfp574	232976
1453328_at	-2.90	2700008G24Rik	72545
1437868_at	-2.90	BC023892	212943
1451149_at	-2.89	Pgm2	72157
1453065_at	-2.89	Aldh5a1	214579
1433741_at	-2.88	Cd38	12494
1423284_at	-2.87	Mansc1	67729
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1458458_at	-2.86	Slfn5	327978
1443287_at	-2.86	Gm1337	383787
1442706_at	-2.86	Nelf	56876
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1429665_at	-2.85	6230416J20Rik	230376
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1420362_a_at	-2.83	Bik	12124
1443714_at	-2.83	C530044N13Rik	223978
1416903_at	-2.83	Nucb1	18220
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1419833_s_at	-2.81	Centd3	106952
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1436838_x_at	-2.69	Cotl1	72042
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1415698_at	-2.68	Golph2	105348
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1439153_at	-2.67	Ibrdc2	218215
1455350_at	-2.67	Tmem62	96957
1455435_s_at	-2.66	Chdh	218865
1450717_at	-2.66	Ang1	11727
1418831_at	-2.66	Pkp3	56460
1450860_at	-2.65	Lap3	66988
1416303_at	-2.65	Litaf	56722
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1438478_a_at	-2.64	Ppp3ca	19055

1444254_at	-2.64	Tns4	217169
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1419328_at	-2.63	Sema4f	20355
1446212_at	-2.63	Ga17	98221
1417739_at	-2.62	Med11	66172
1439110_at	-2.62	A930012O16Rik	227923
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1440243_at	-2.61	Cpne7	102278
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1419125_at	-2.61	Ptpn18	19253
1438689_at	-2.60	4632433K11Rik	77043
1452829_at	-2.60	Cad	69719
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