

Supplementary Figure Legends

Supplementary Figure S1. Decline of DN2, DN3, and DP populations in *Ikzf1*^{ΔF4/ΔF4} mice worsens with age. (A) Shown are the averages of the absolute cell numbers of each thymocyte subset in WT and *Ikzf1*^{ΔF4/ΔF4} mice at 4-, 5-, and 6-weeks (wk) and the ratios of WT over *Ikzf1*^{ΔF4/ΔF4} absolute cell numbers. (B) Shown are staining profiles of lin⁻CD44⁺c-Kit⁺ gated thymocytes in WT and *Ikzf1*^{ΔF4/ΔF4} mice at 4, 5, and 6 wk. The absolute mean percentages are indicated (n=4-6). (C) Shown are absolute numbers of ETP cells in WT and *Ikzf1*^{ΔF4/ΔF4} mice at 4 wk (n=4), 5 wk (n=5-6), and 6 wk (n=5). Each symbol represents an individual mouse and bar shows the mean. (D) Shown are histograms of lin⁻CD44⁻CD25⁺ DN3 thymocytes in gray and lin⁻CD44⁻CD25⁻ DN4 thymocytes in green in 5-wk-old WT and *Ikzf1*^{ΔF4/ΔF4} mice. (E) Plotted are ratios of the average cell numbers of the indicated populations in WT over *Ikzf1*^{ΔF4/ΔF4} as they relate to age.

Supplementary Figure S2. (A) Pearson correlation coefficient (R) matrix of expressed genes >200 bp and ≥4 RPKM in at least one sample (n=10177 genes) for thymocyte subsets from Fig. 4. (B) Pearson correlation coefficient (R) matrix of expressed genes (n=9798 genes) for Notch time course experiment from Fig. 7.

Supplementary Figure S3. (A-B) For each gene whose expression changes by a factor of 3-fold or more ($P \leq 0.001$) during any stage transition in WT cells, a ratio of the fold change that occurs in WT cells over the fold change that occurs in *Ikzf1*^{ΔF4/ΔF4} cells was calculated. Box plots and corresponding values (minimum, maximum, median, and quartiles) are shown to depict the range of these ratios of fold change between WT and *Ikzf1*^{ΔF4/ΔF4} cells. The middle line shows the median, the lower and upper boxes show the 25% and 75% quartiles, and the bottom and top whiskers show the minimum and

maximum. (C-D) The genes from (A-B) were divided into two categories based on whether the absolute ratio of the stage-dependent fold change in WT cells over that in *Ikzf1*^{ΔF4/ΔF4} cells was greater than or less than 2. (C) The left panel shows the number of genes and the right panel shows the percentage of genes that fall into the corresponding categories at each stage transition.

Supplementary Figure S4. (A) Expressed genes differentially regulated by 3-fold ($P \leq 0.001$) at each stage transition of WT or *Ikzf1*^{ΔF4/ΔF4} cells were divided into a variable number of k-means clusters. Colors indicate percentile of relative expression. ETP to DN2 transition, n=796 genes; DN2 to DN3 transition, n=1389 genes; DN3 to DN4 transition, n=345; DN4 to DP transition, n=1568 genes. Shown next to each heat map are graphs of the mean normalized expression values (\log_2 RPKM) for WT and *Ikzf1*^{ΔF4/ΔF4} cells in each cluster. The number of genes falling into each cluster is also indicated. (B) Clusters are shown with corresponding gene names.

Supplementary Figure S5. Normalized expression values (\log_2 RPKM) for genes of interest involved in hematopoiesis are shown. Table has been adapted from Yui et al. 2010 and Zhang et al. 2012. Colors indicate percentile of relative expression. Fold change and P values of RPKM values in *Ikzf1*^{ΔF4/ΔF4}/WT cells are included, with genes differentially expressed by 2-fold ($P \leq 0.001$) highlighted (upregulated in purple and downregulated in green).

Supplementary Figure S6. *Ikzf1*^{ΔF4/ΔF4} DN3 cells express IL-7R α at levels intermediate between WT DN3 cells and WT and *Ikzf1*^{ΔF4/ΔF4} DN4 cells. Shown are histograms of surface IL-7R α protein expression on DN3 and DN4 cells of WT and *Ikzf1*^{ΔF4/ΔF4} mice.

Supplementary Figure S7. Loss of finger 4 of Ikaros enhances gene expression changes resulting from activated Notch. (A) Hierarchical clustering of expressed genes (>200 bp, ≥ 4 RPKM in at least one sample) differentially regulated by 3-fold ($P \leq 0.001$) between ICN-GFP⁺ and ICN-GFP⁻ cells and differentially regulated by 5-fold ($P \leq 0.001$) in any time point relative to day 0 (n=294). (B) Genes in (A) were divided into 6 k-means clusters. Shown are graphs of the mean normalized expression values (\log_2 RPKM) in WT and *Ikzf1* ^{$\Delta F4/\Delta F4$} cells for each cluster.

Supplementary Figure S8. List of genes upregulated in *Ikzf1* ^{$\Delta F4/\Delta F4$} cells compared to WT cells for thymocytes (ETP, DN2, DN3, DN4, or DP), for Notch-expressing cells (ICN-GFP⁺ cells at day 2, 4, or 7), and for BCR-ABL-expressing cells (day 14, 21, or 28). Shown are fold changes of *Ikzf1* ^{$\Delta F4/\Delta F4$} /WT RPKM values in each dataset. Fold change values are highlighted in purple if the gene is upregulated in the mutant cells by 3-fold or greater (≥ 4 RPKM, $P \leq 0.001$ for thymocyte or Notch-expressing cells, $P \leq 0.02$ for BCR-ABL-expressing cells) in the indicated dataset.

Supplementary Figure S9. List of genes downregulated in *Ikzf1* ^{$\Delta F4/\Delta F4$} cells compared to WT cells for thymocytes (ETP, DN2, DN3, DN4, or DP), for Notch-expressing cells (ICN-GFP⁺ cells at day 2, 4, or 7), and for BCR-ABL-expressing cells (day 14, 21, or 28). Shown are fold changes of WT/*Ikzf1* ^{$\Delta F4/\Delta F4$} RPKM values in each dataset. Fold change values are highlighted in green if the gene is downregulated in the mutant cells by 3-fold or greater (≥ 4 RPKM, $P \leq 0.001$ for thymocyte or Notch-expressing cells, $P \leq 0.02$ for BCR-ABL-expressing cells) in the indicated dataset.

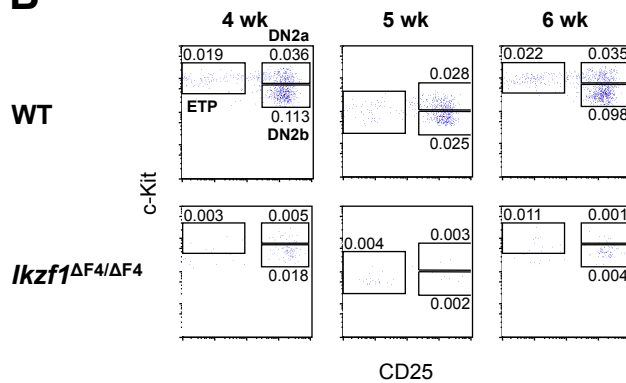
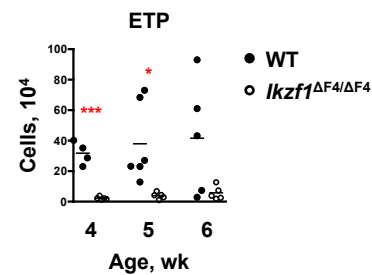
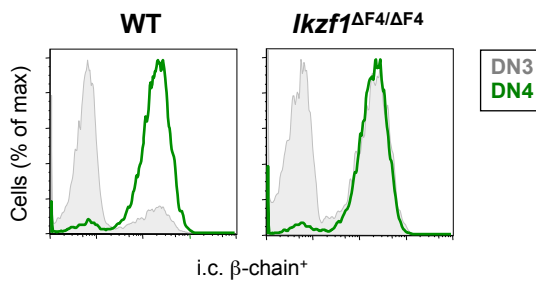
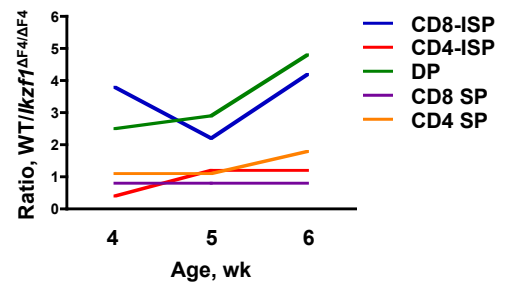
Supplementary Figure S10. Gene ontology analysis of genes upregulated or downregulated by 3-fold in *Ikzf1*^{ΔF4/ΔF4} cells compared to WT cells in all datasets (thymocytes, Notch-expressing cells, and BCR-Abl cells).

Yui MA, Feng N, Rothenberg E V. 2010. Fine-scale staging of T cell lineage commitment in adult mouse thymus. *J Immunol* **185**: 284–93.

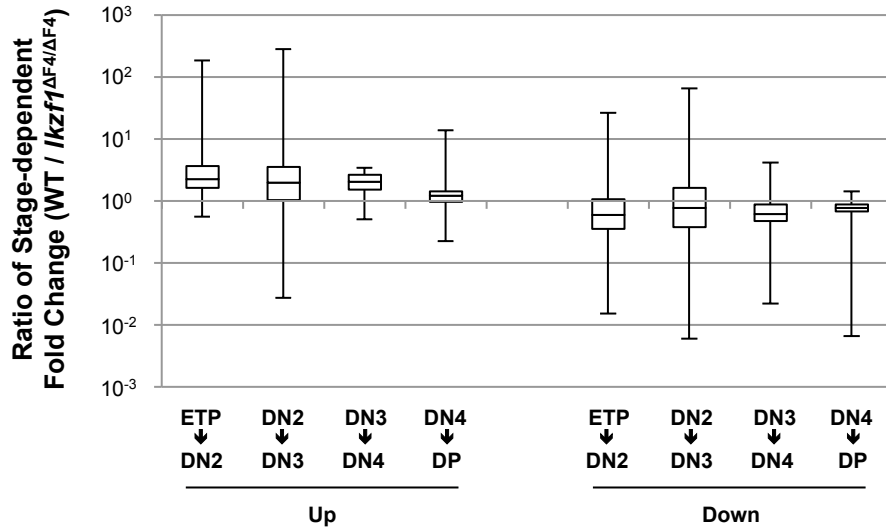
Zhang JA, Mortazavi A, Williams BA, Wold BJ, Rothenberg E V. 2012. Dynamic transformations of genome-wide epigenetic marking and transcriptional control establish T cell identity. *Cell* **149**: 467–482.

A

	4-wk-old			5-wk-old			6-wk-old		
	WT	<i>Ikzf1</i> ^{ΔF4/ΔF4}	Ratio	WT	<i>Ikzf1</i> ^{ΔF4/ΔF4}	Ratio	WT	<i>Ikzf1</i> ^{ΔF4/ΔF4}	Ratio
ETP	31.8 × 10 ³	2.3 × 10 ³	13.8	38.0 × 10 ³	3.9 × 10 ³	9.7	41.6 × 10 ³	5.7 × 10 ³	7.3
DN2	167.0 × 10 ³	14.9 × 10 ³	11.2	131.5 × 10 ³	6.4 × 10 ³	20.6	104.6 × 10 ³	2.4 × 10 ³	43.5
DN3	216.7 × 10 ⁴	63.5 × 10 ⁴	3.4	223.4 × 10 ⁴	27.7 × 10 ⁴	8.0	199.1 × 10 ⁴	7.4 × 10 ⁴	26.9
DN4	369.3 × 10 ⁴	247.8 × 10 ⁴	1.5	343.3 × 10 ⁴	169.6 × 10 ⁴	2.0	280.9 × 10 ⁴	99.1 × 10 ⁴	2.8
CD8-ISP	11.2 × 10 ⁵	3.0 × 10 ⁵	3.8	11.7 × 10 ⁵	5.4 × 10 ⁵	2.2	5.7 × 10 ⁵	1.4 × 10 ⁵	4.2
CD4-ISP	3.6 × 10 ⁵	9.4 × 10 ⁵	0.4	5.6 × 10 ⁵	4.5 × 10 ⁵	1.2	5.4 × 10 ⁵	4.5 × 10 ⁵	1.2
DP	18.1 × 10 ⁷	7.2 × 10 ⁷	2.5	16.6 × 10 ⁷	5.7 × 10 ⁷	2.9	14.4 × 10 ⁷	3.0 × 10 ⁷	4.8
CD8 SP	2.7 × 10 ⁶	3.3 × 10 ⁶	0.8	3.0 × 10 ⁶	3.6 × 10 ⁶	0.8	2.7 × 10 ⁶	3.1 × 10 ⁶	0.8
CD4 SP	12.0 × 10 ⁶	11.3 × 10 ⁶	1.1	12.1 × 10 ⁶	10.8 × 10 ⁶	1.1	10.1 × 10 ⁶	5.6 × 10 ⁶	1.8

B**C****D****E**

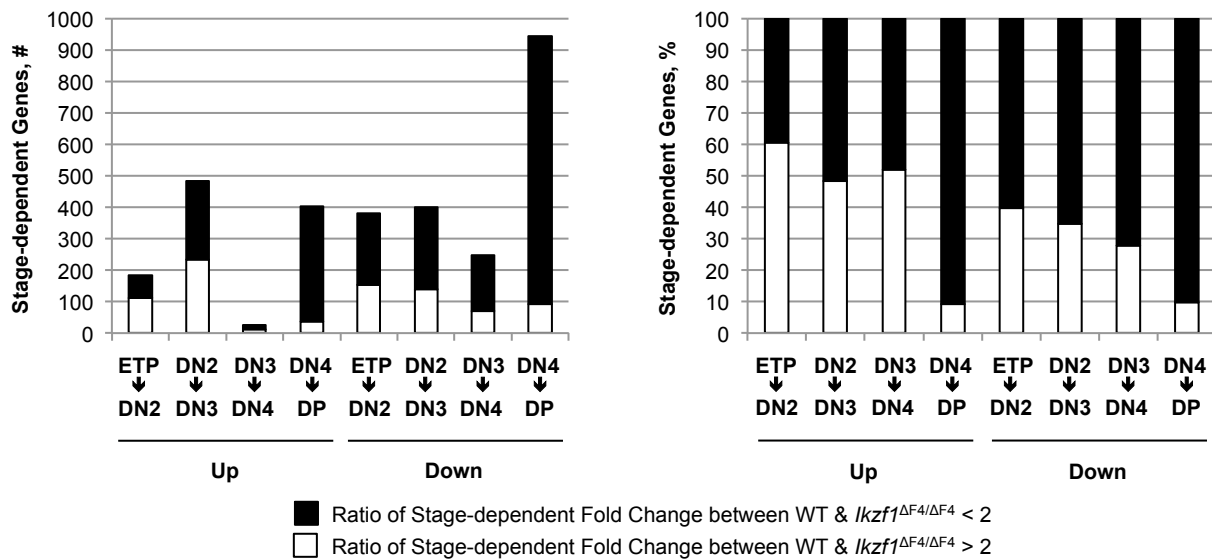
A



B

	Up				Down			
	ETP → DN2	DN2 → DN3	DN3 → DN4	DN4 → DP	ETP → DN2	DN2 → DN3	DN3 → DN4	DN4 → DP
Minimum	0.6	0.0	0.5	0.2	0.0	0.0	0.0	0.0
25% Quartile	1.6	1.0	1.5	1.0	0.4	0.4	0.5	0.7
Median	2.3	1.9	2.0	1.2	0.6	0.8	0.6	0.8
75% Quartile	3.6	3.5	2.7	1.4	1.1	1.6	0.9	0.9
Maximum	184.8	284.5	3.5	13.6	26.7	65.0	4.2	1.4

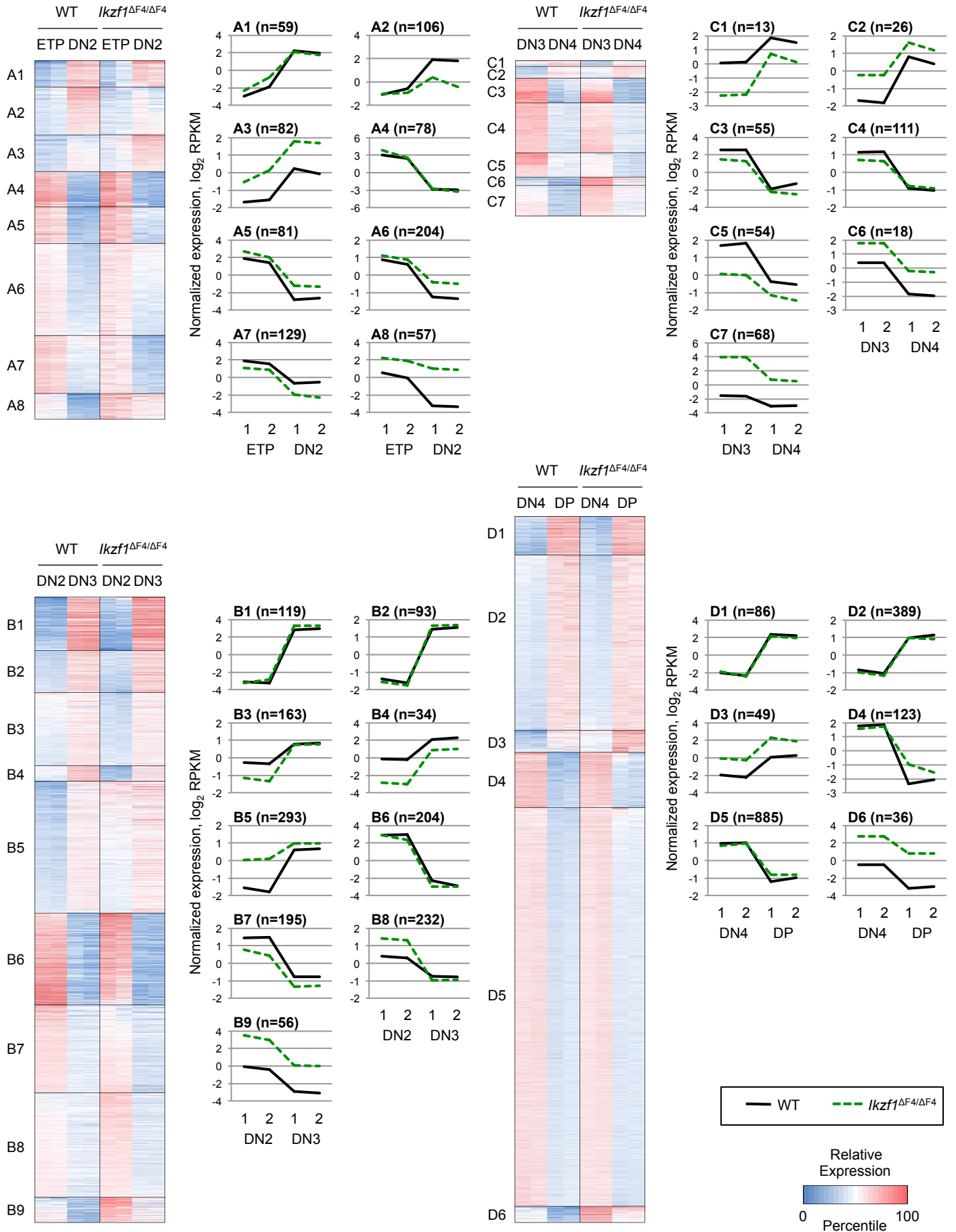
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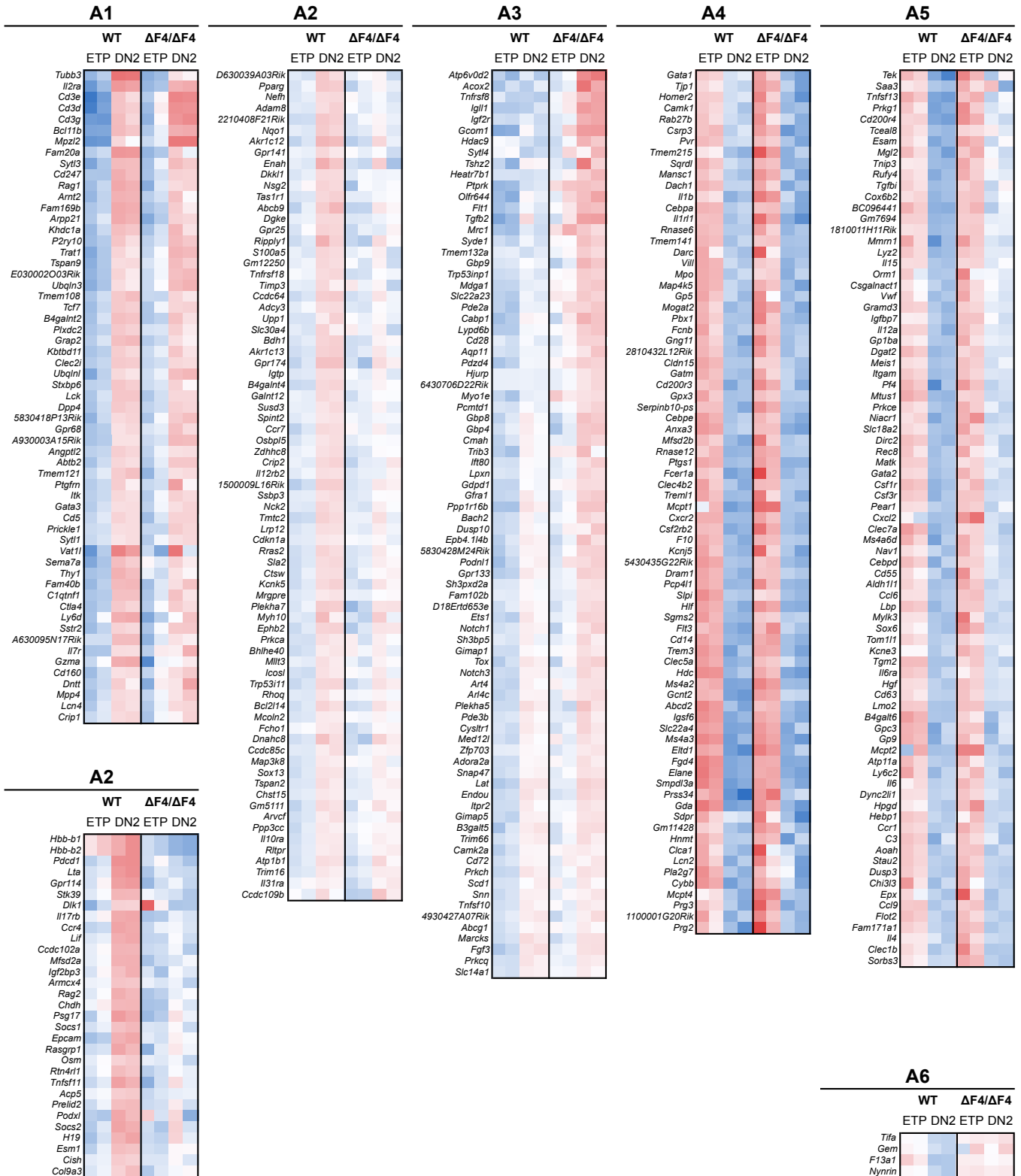
D

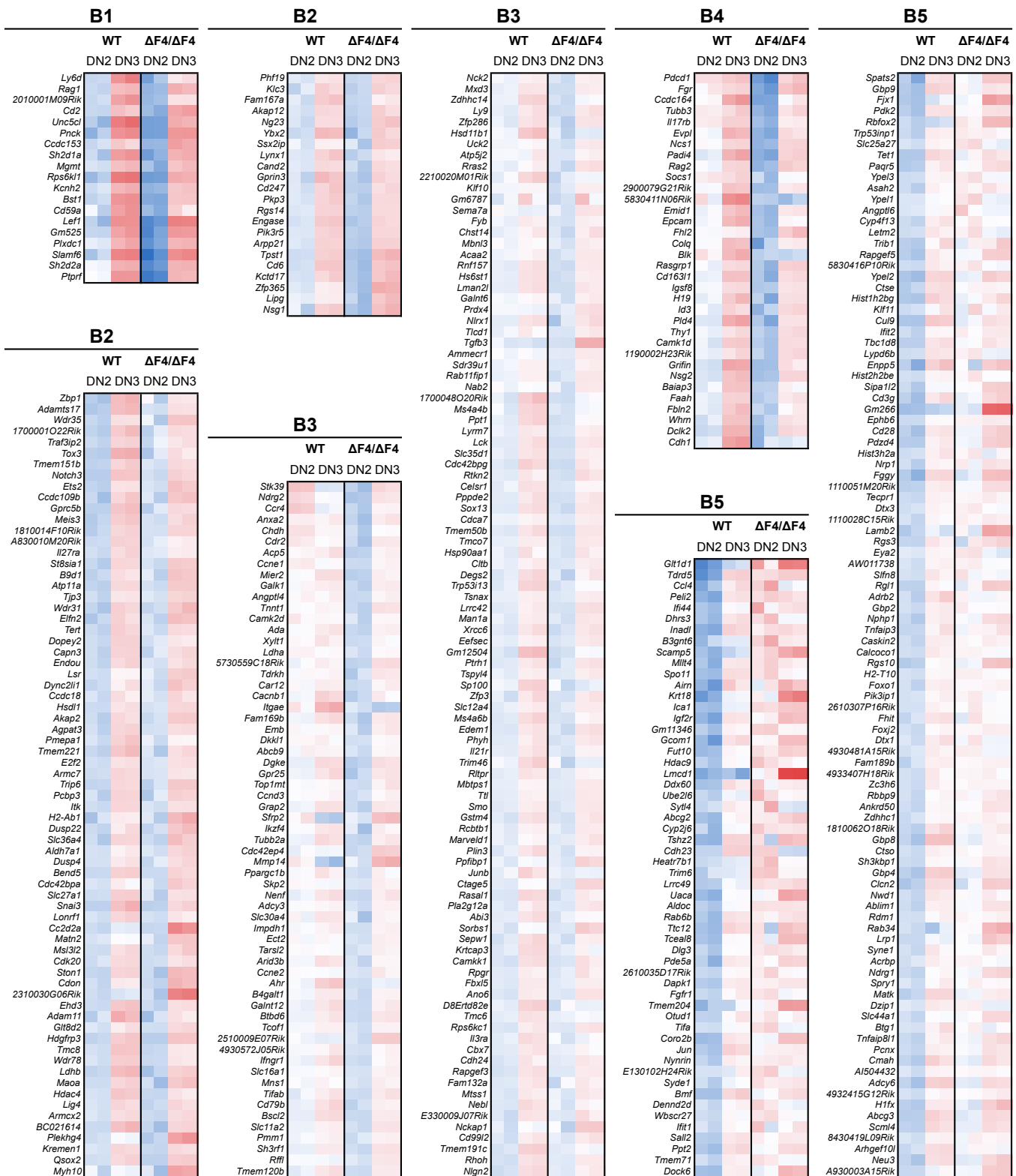
		FC ratio >2		FC ratio <2	
		#	%	#	%
UP	ETP → DN2	112	61	73	39
	DN2 → DN3	233	48	250	52
	DN3 → DN4	13	52	12	48
	DN4 → DP	37	9	366	91
DOWN	ETP → DN2	152	40	230	60
	DN2 → DN3	139	35	260	65
	DN3 → DN4	69	28	178	72
	DN4 → DP	93	10	851	90

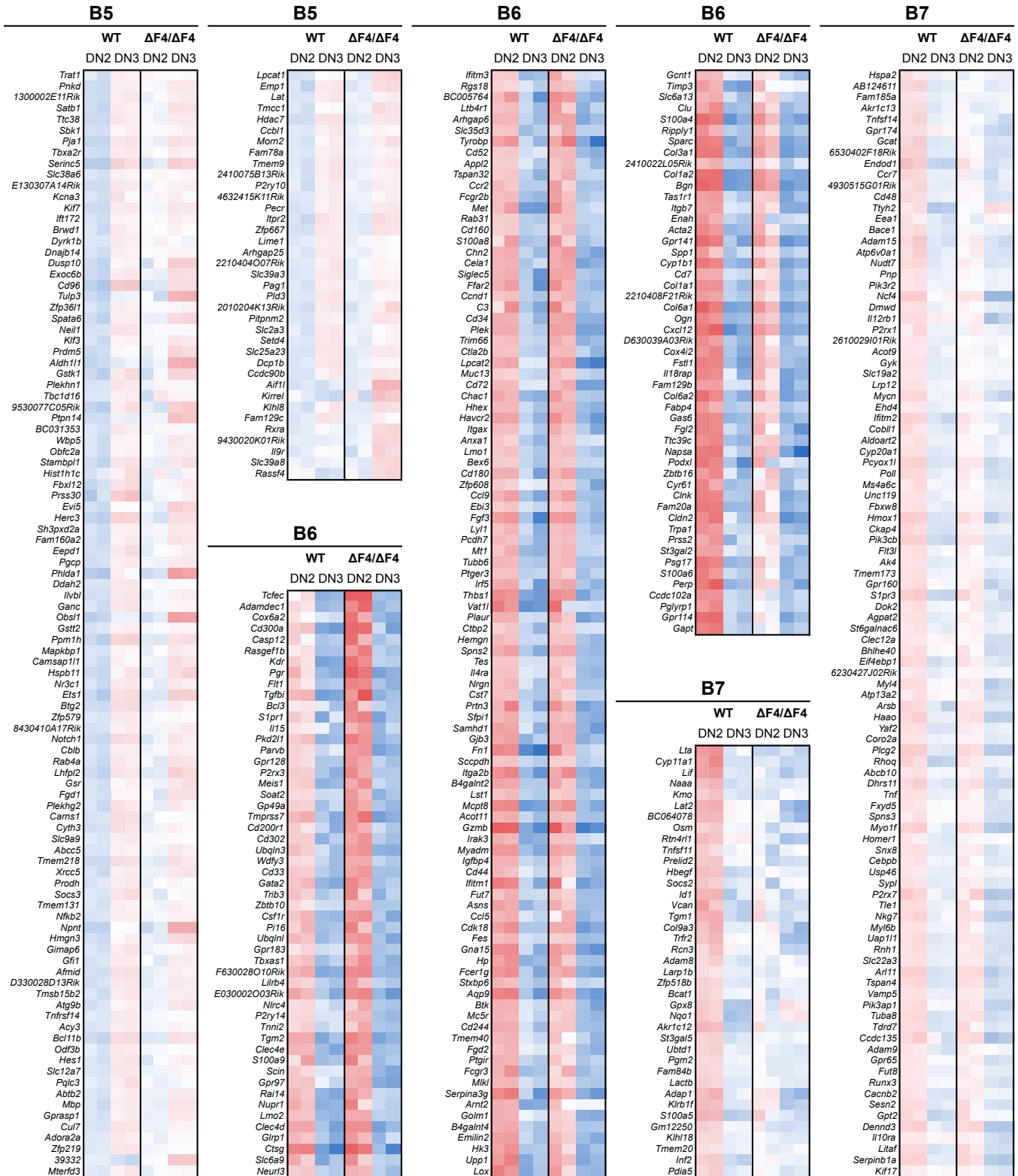
A

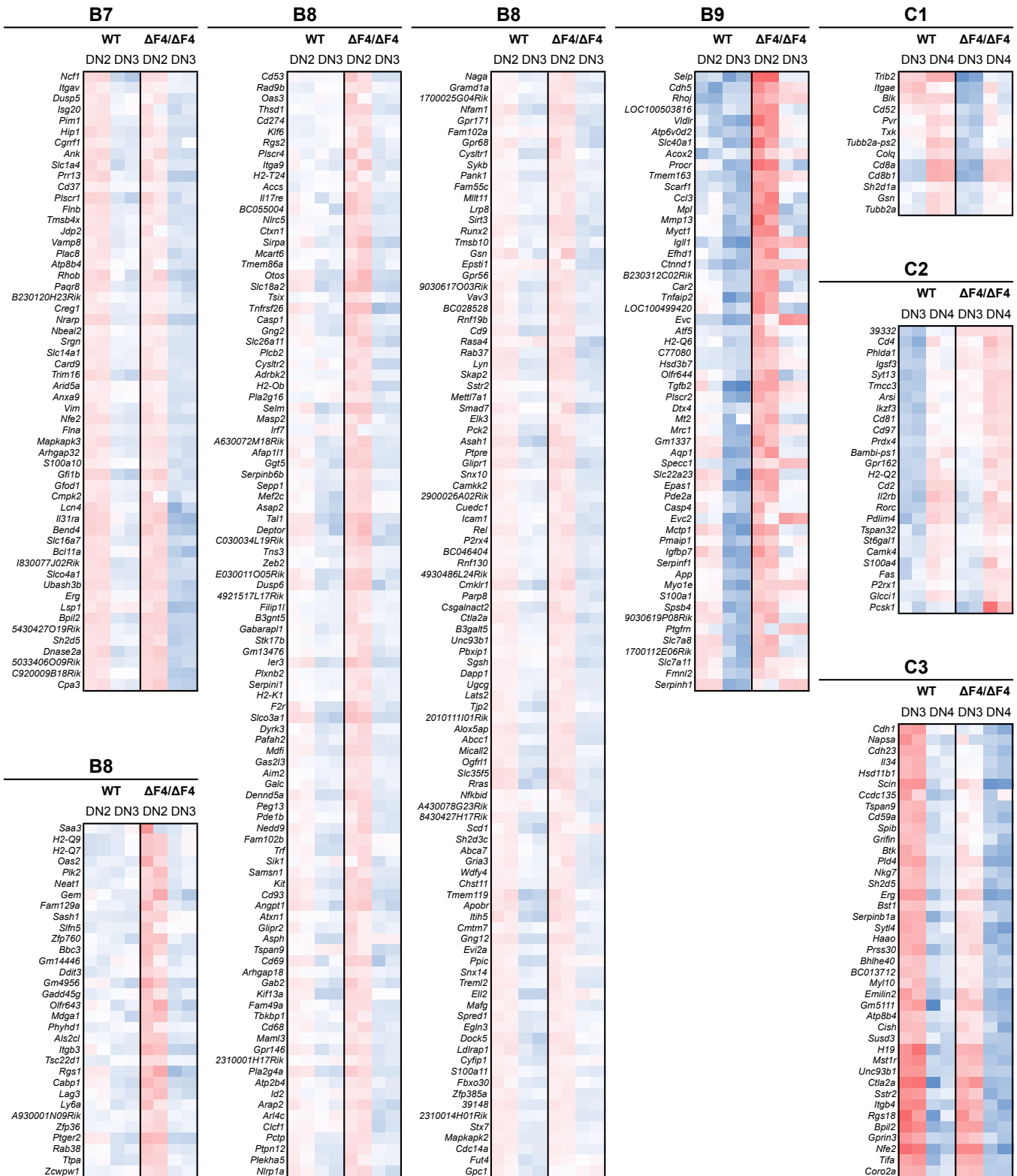


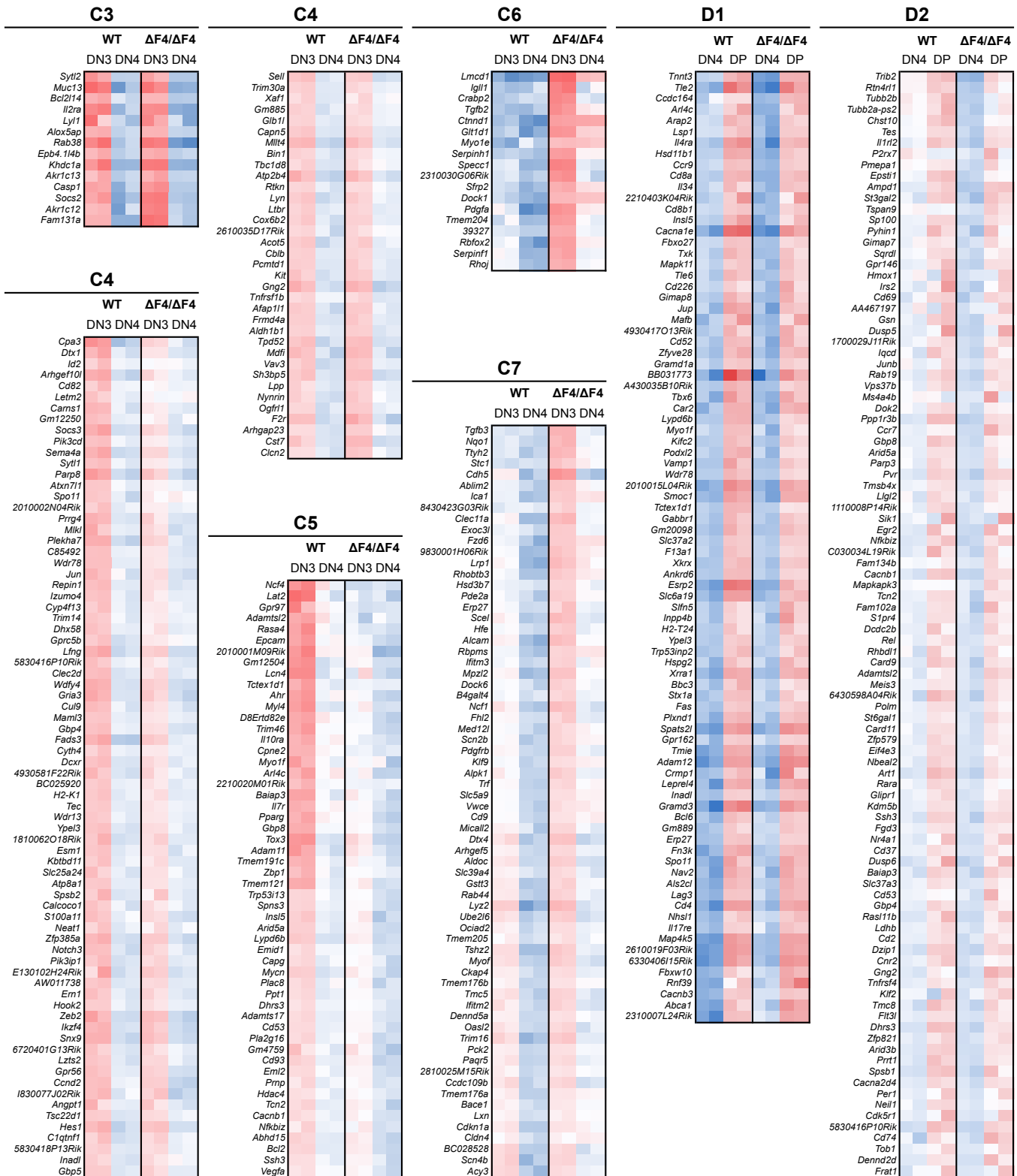
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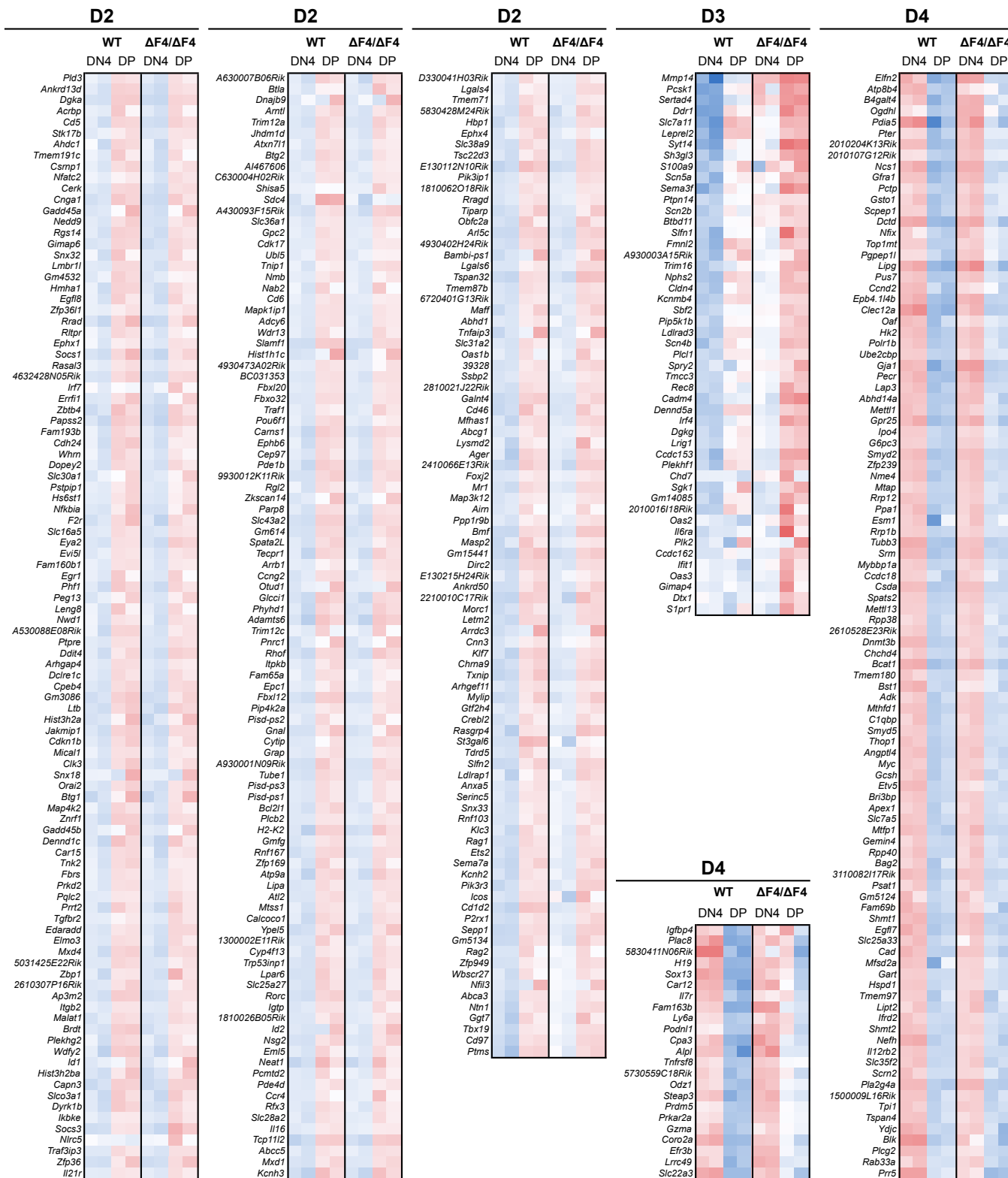


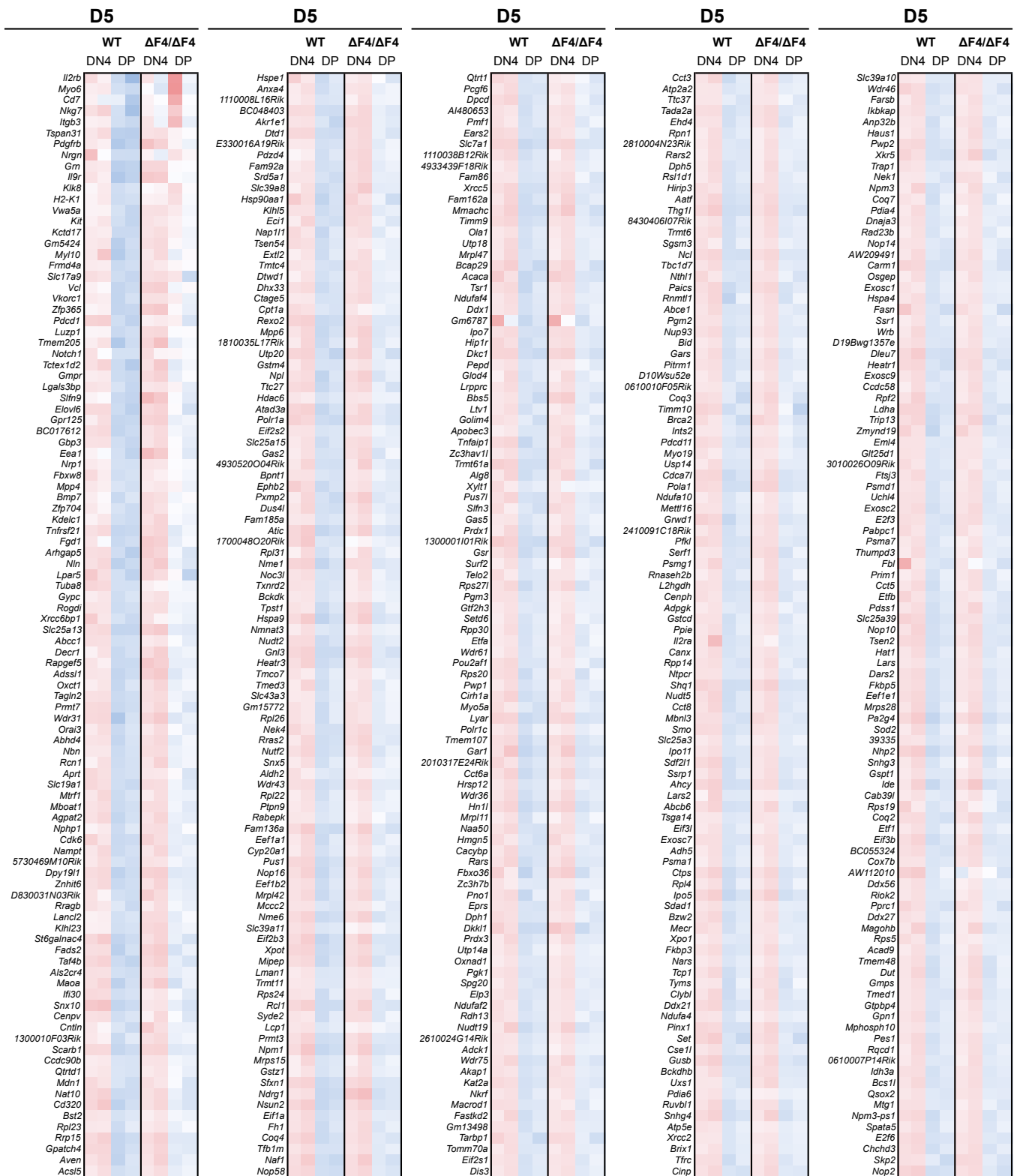


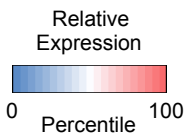
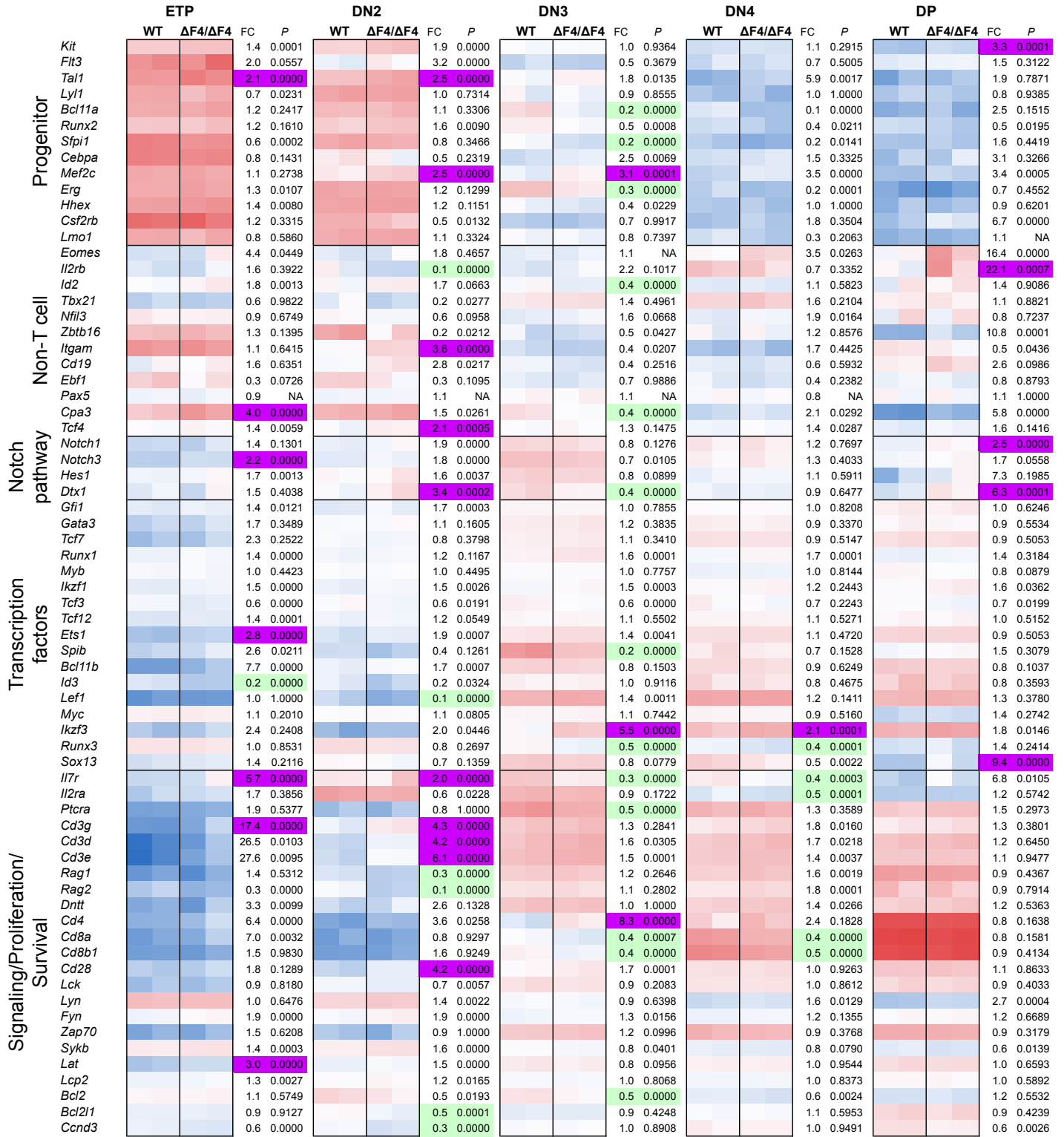






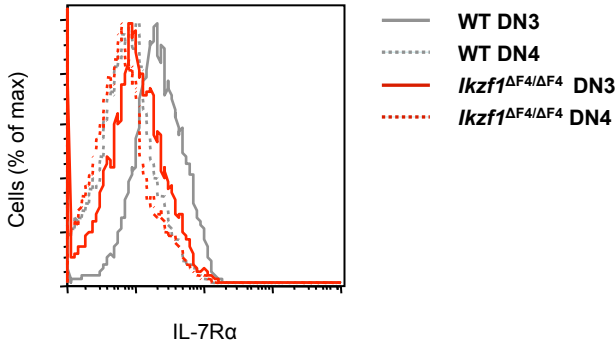




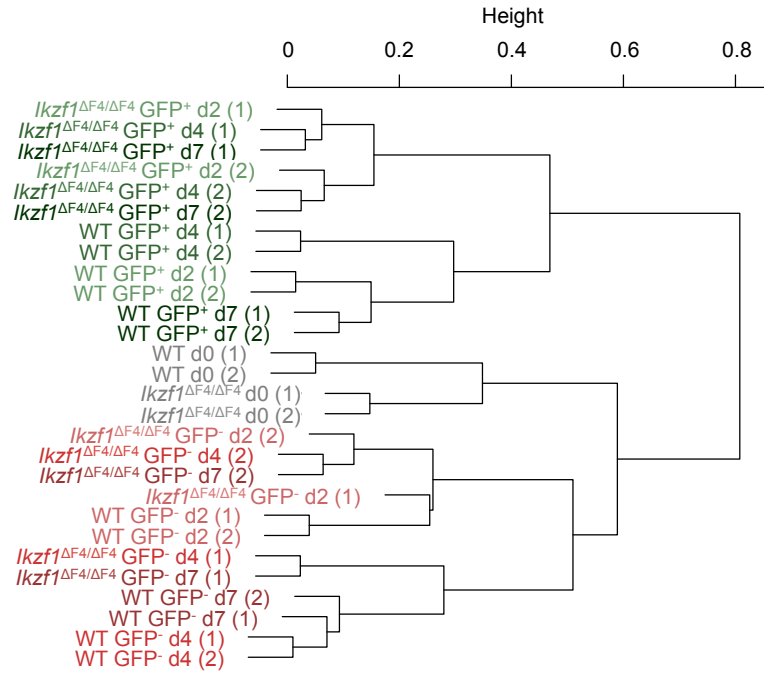


twofold up, $P \leq 0.001$, ≥ 1 RPKM

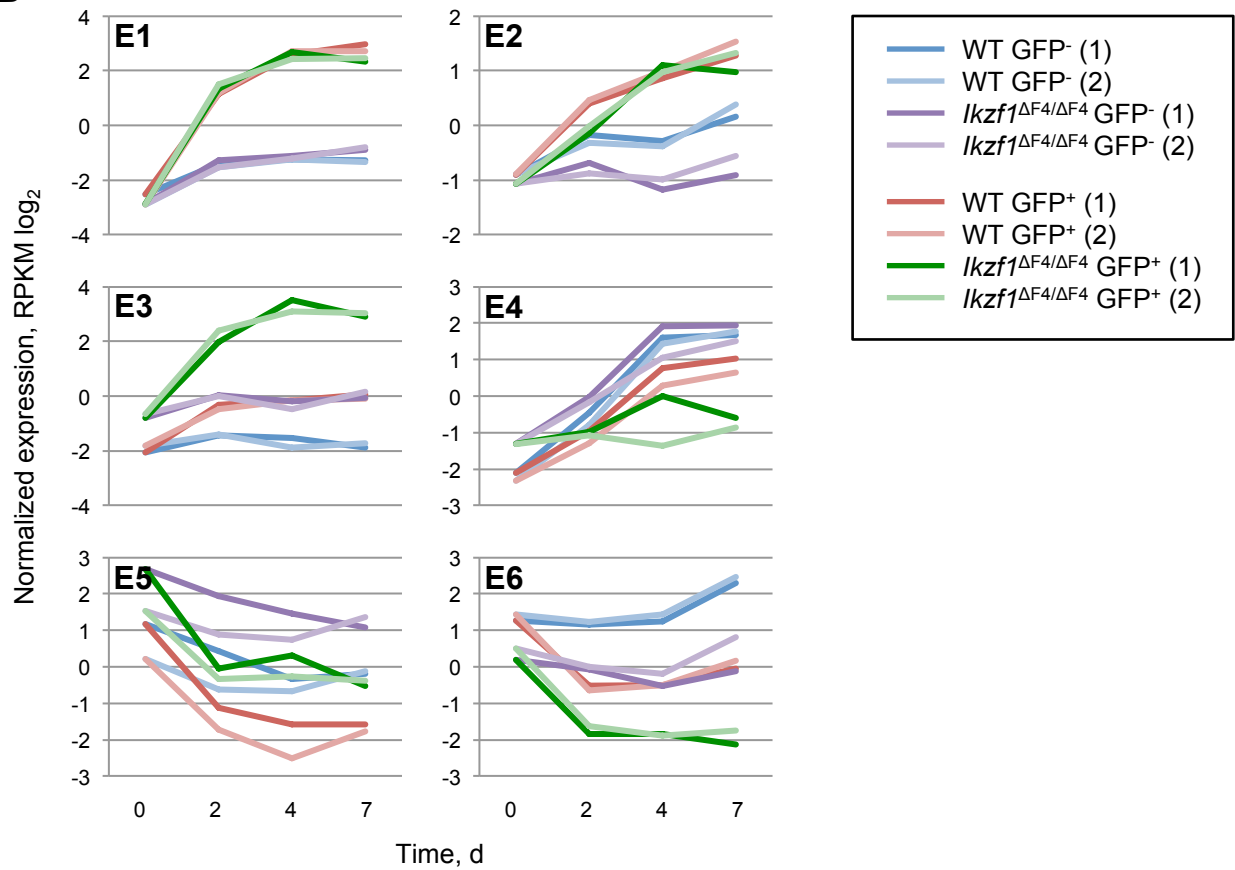
twofold down, $P \$



A





B



Up in *Ikzf1*^{ΔF4/ΔF4} Thy, Notch, and BCR-ABL

Gene Name	Thy	Notch	BCR-ABL
Lyplal1	16.6	48.3	15.4
Dock1	245.5	45.9	35.3
Ctnnd1	260.8	43.4	3.8
Uaca	11.0	38.3	4.3
Lamb2	21.9	32.0	10.2
Rbpms	38.9	26.7	6.6
Dock7	59.6	25.3	11.7
Tmem132a	9.0	22.7	34.1
Gria2	35.2	18.6	5.5
Tmem176b	10.5	15.9	7.2
S1pr1	6.0	14.8	4.1
Tmem176a	10.5	13.3	4.9
Rxra	3.8	6.6	3.8
Sbf2	5.2	5.7	4.9
Sh3gl3	16.2	5.3	56.3
Ppic	15.7	5.0	12.6
9830001H06Rik	12.2	4.3	6.4
Myh10	12.1	3.7	3.5
Tfpi	4.1	3.6	38.0

 > 10-fold up

 3- to 10-fold up

Up in *Ikzf1*^{ΔF4/ΔF4} Thy and BCR-ABL

Gene Name	Thy	Notch	BCR-ABL
H19	10.9	1.0	1529.4
Gzmb	28.8	0.4	193.9
Aqp1	11.6	3.7	61.5
Spats2	6.8	1.0	36.5
Serpinh1	70.3	1.4	29.1
Smpd3b	17.9	2.5	24.1
Rhoj	129.2	5.0	21.3
Stk39	6.2	2.0	19.7
Ccl2	4.0	1.4	16.8
Gem	6.9	1.1	12.2
Fam129a	6.7	0.9	11.9
Exoc3l	7.8	4.0	11.0
Kctd17	3.2	2.6	9.7
Hdac9	16.8	2.1	8.8
Ptms	3.9	1.5	8.8
Slc6a9	3.3	1.0	8.0
H2-Aa	9.2	2.5	7.7
Ifitm3	7.5	3.5	7.4
Pdzd4	8.1	2.1	7.1
Pak1	5.0	2.0	6.8
Cth	6.1	0.1	6.6
Mt2	8.5	2.0	6.6
Igf1p4	31.6	1.2	6.3
Khk	4.9	2.9	6.2
Aldoc	10.6	2.4	5.9
Dtx4	7.4	2.5	5.7
Maged1	14.7	2.1	5.3
App	9.6	2.4	5.1
Lrrc49	11.1	2.8	4.8
Wdfy3	3.3	1.4	4.6
Trib3	9.3	0.9	4.5
Ptpn14	6.7	2.8	4.2
Bhlhe40	3.2	0.8	3.7
Mt1	4.7	4.3	3.7
Dst	4.3	2.6	3.7

Up in *Ikzf1*^{ΔF4/ΔF4} Thy and Notch

Gene Name	Thy	Notch	BCR-ABL
Lmcd1	933.0	186.0	1.4
Gm266	172.6	107.7	1.0
2310030G06Rik	40.0	76.1	43.9
Pdgfa	47.8	74.1	0.8
Ttyh2	11.9	54.5	2.2
Fzd6	41.3	53.6	0.0
5730528L13Rik	8.0	46.1	40.2
Krt18	27.6	43.0	3.7
Ica1	19.2	38.5	2.3
Clec11a	9.3	38.1	1.4
Gm4371	41.5	36.7	1.1
Stc1	25.3	35.2	81.6
Trf	5.7	32.1	2.1
Fam163b	6.7	31.2	4.3
Psmas8	26.6	29.9	92.2
Wscd1	37.8	27.7	47.9
Aif1l	23.6	25.0	0.8
Kctd12	3.7	24.7	2.3
Rhobtb3	15.8	24.2	11.8
B3gnt6	26.8	22.8	2.1
Tgfb2	116.3	20.2	15.7
Rbfox2	44.6	19.1	3.3
Dcbld1	69.7	18.8	2.8
Obsl1	60.3	18.1	1.4
Scn4b	3.7	17.8	0.1
Tceal8	9.2	17.4	3.1
Acvr1	5.6	16.6	1.1
Lima1	37.3	16.2	2.1
Npnt	23.9	16.0	0.9
Podnl1	6.2	15.8	0.8
Fam110b	15.3	15.2	1.1
Gpr83	40.3	14.7	1.1
Syt14	14.8	14.1	2.4
Alcam	8.3	13.3	1.6
Hfe	4.0	12.2	2.6
Pdgfrb	4.5	12.0	2.3
Laptm4b	6.0	11.8	9.8
Scamp5	27.3	11.3	1.0
F2	141.7	10.8	1.1
Rab34	46.1	10.6	1.2
Cyip1	8.0	10.4	1.2
Kif13a	4.8	10.4	1.5
Jub	18.9	10.0	21.4
Abcg2	13.4	9.9	1.3
Lrp1	38.8	9.9	0.9
Cyp4f16	5.1	9.8	2.3
Eng	3.3	9.8	0.9
Rassf8	19.8	9.8	2.4
Car2	16.6	9.7	1.7
Pcgf2	6.0	9.6	2.3
Asph	14.2	9.5	3.1
Gja1	3.1	9.2	0.3
Pon3	10.1	9.1	1.4
Igll1	206.6	8.9	1.5
Ppfilbp1	3.1	8.9	3.1
Adam19	77.6	8.8	5.0
Spry2	6.2	8.8	0.9
Rgl1	4.8	8.8	2.2
Scn2b	5.4	8.7	0.5
Aldh1l1	19.2	8.7	14.5
Arhgef5	5.1	8.7	2.5
Fjx1	28.8	8.7	47.2
Abli2	6.7	8.6	0.7
Lphn2	19.9	8.4	1.7
Mrc1	36.8	8.3	2.4
Tgfb3	16.0	8.3	0.7
Vwce	5.8	7.9	1.8
Dock5	3.4	7.8	2.5
Bex1	6.0	7.5	4.9
Rasgef1b	9.7	7.4	0.8

Up in *Ikzf1*^{ΔF4/ΔF4} Thy and Notch (cont.)

Gene Name	Thy	Notch	BCR-ABL
Tbc1d4	5.0	7.1	2.0
Matn2	4.7	7.1	5.7
Cd200	4.2	6.9	1.3
Myo1e	64.2	6.7	1.4
Epas1	21.0	6.6	3.5
Eya2	3.7	6.6	1.0
Tifa	7.0	6.5	0.3
Pkn3	8.4	6.4	3.8
Mmp14	66.7	6.4	2.1
Cyp2j6	13.3	6.2	2.2
H1f0	4.5	6.1	3.3
Ptgfrn	43.1	6.0	3.5
Pmaip1	9.1	5.9	1.1
Cd9	8.0	5.8	1.8
Tns3	5.4	5.8	1.0
Ell2	6.5	5.6	2.0
Wls	3.1	5.6	1.4
Ppp1r1b	10.3	5.6	0.9
Cpsf4l	20.1	5.6	2.1
Ptpkr	32.1	5.4	0.6
Ccdc88a	6.2	5.4	2.1
Scd1	11.0	5.4	1.4
Jun	7.0	5.3	1.8
Sertad4	39.4	5.3	0.4
Als2cl	5.3	5.2	0.5
Scamp1	3.0	5.1	1.9
Slc39a8	3.5	5.0	2.5
Sfrp2	24.8	5.0	6.6
2510009E07Rik	5.3	4.6	1.6
Mpzl2	17.5	4.3	0.1
Dock6	6.2	4.3	4.1
Vash1	4.4	4.2	0.7
Myo10	3.6	4.2	1.9
Tjp2	5.5	4.1	1.6
Oas3	6.9	4.0	1.6
Cadm4	15.6	3.9	1.2
Cdc42ep4	3.9	3.9	2.4
Spsb4	9.3	3.8	3.2
B4gal4	3.4	3.8	1.3
Cdon	3.2	3.8	1.1
Efr3b	4.0	3.7	0.7
Sorbs1	3.3	3.6	1.2
Sifn9	5.4	3.5	2.5
Cdr2l	6.8	3.5	6.2
Pcdhgc3	5.9	3.3	2.7
Cacng4	16.0	3.2	1.1
Capn5	3.6	3.2	0.8
Igf2r	18.4	3.2	0.5
Ctnna1	3.0	3.2	2.4
Kbtbd11	3.5	3.2	0.5
Apoe	13.2	3.2	0.6
Slc5a9	10.7	3.1	4.1
Pcdhgb6	5.1	3.0	2.5
Pcdhgb2	5.3	3.0	2.6
Pcdhgb7	5.1	3.0	2.6
Pcdhga10	5.1	3.0	2.6

Up in *Ikzf1*^{ΔF4/ΔF4} Notch and BCR-ABL

Gene Name	Thy	Notch	BCR-ABL
2810025M15Rik	11.0	9.0	7.6
Kit	3.3	6.9	534.8
Igf1r	2.9	5.4	18.6
Apbb2	3.9	4.2	4.9
Gpr125	2.4	4.2	34.0
Fzd7	3.2	4.1	5.1
Emp1	3.0	3.9	9.4
Bmpr2	2.6	3.4	4.3
Coro2b	7.0	3.1	12.9

Up in *Ikzf1*^{ΔF4/ΔF4} Thy only

Gene Name	Thy	Notch	BCR-ABL
Evc	442.9	47.7	47.5
Cdh5	407.0	3.2	37.3
Evc2	282.9	24.9	17.2
Selp	274.6	1.8	20.2
Ccr9	222.3	0.4	3.1
Glt1d1	210.8	37.1	290.9
Tie1	171.7	5.5	5.5
Cd163l1	165.2	3.9	1.1
Crabp2	116.7	9.5	1.0
LOC100503816	112.5	1.6	2.1
Vldlr	107.7	0.7	35.5
Kirrel	69.4	2.8	0.8
St8sia6	67.9	1.6	3.0
Atp6v0d2	67.6	4.8	1.8
Tdrd5	59.8	1.9	1.1
Slc40a1	57.7	2.9	1.5
Acox2	55.4	6.4	1.1
Pcsk1	55.3	3.2	1.6
Ccl4	55.2	0.8	1.4
Procr	51.8	1.0	1.1
Kdr	51.5	1.2	8.1
Pde2a	49.6	4.2	1.0
Specc1	48.4	3.9	0.8
Tmem163	47.7	3.2	5.2
Scarf1	44.1	1.0	9.6
Fgd5	43.5	4.6	14.8
Ccl3	43.0	1.9	1.7
Peli2	40.5	2.1	8.0
Mpl	39.3	1.8	1.1
Tnfrsf8	37.4	1.9	40.0
Mmp13	36.9	2.7	3.0
Myct1	35.0	1.1	4.2
Ifi44	34.8	2.0	6.3
Tcfec	30.1	1.1	1.9
Stfa211	28.7	1.1	8.4
Cc2d2a	28.5	20.2	20.0
Plscr2	28.4	1.5	0.8
Cd3e	27.6	2.1	1.1
Dhrs3	27.1	0.5	1.2
Gcom1	26.7	2.7	69.0
Cd3d	26.5	1.7	0.8
Tmem215	26.2	1.1	1.1
Efhd1	25.6	4.2	1.0
Homer2	25.4	2.2	3.1
Gm14047	25.3	0.9	2.1
39327	24.9	2.8	3.9
Ltf	24.1	0.8	14.8
B230312C02Rik	23.8	1.1	0.5
Hspa1b	23.1	0.7	1.4
Ilgp1	23.0	7.5	1.9
Tnfaip2	22.4	14.1	1.1
Il6ra	22.3	1.3	2.1
Il2rb	22.1	1.7	18.1
Mllt4	21.4	2.7	0.6
Spo11	21.2	1.9	0.6
Gzmc	20.9	1.5	333.2
Gm5483	20.8	1.2	18.8
Bcl3	20.5	0.5	0.5
Tmem204	20.3	8.3	2.6
Arhgap29	18.7	2.6	8.8
Gm11346	18.1	2.8	0.9
Saa3	17.5	2.1	8.4
Olfr644	17.4	0.9	1.1
Liph	17.4	10.5	1.7
Cd3g	17.4	1.6	1.1
Fut10	16.9	2.1	3.5
Ddx60	16.6	1.6	0.6
Gm19434	16.5	1.6	1.1
Ube2l6	16.2	3.1	2.0
Khdrbs3	15.8	4.8	4.1

Up in *Ikzf1*^{ΔF4/ΔF4} Thy only (cont.)

Gene Name	Thy	Notch	BCR-ABL
Oasl2	15.8	3.8	1.6
Fcer1a	15.6	1.1	3.2
Sash1	15.4	1.7	2.8
Fhdc1	15.3	1.0	0.9
LOC100499420	15.2	0.9	0.4
Oas2	15.1	2.5	0.6
Mcpt4	15.0	1.4	7.5
Sorbs3	14.8	1.1	0.8
Ehd3	14.7	1.2	1.6
Myo6	14.5	0.6	1.3
Tshz2	14.3	2.1	110.8
Sytl4	14.1	0.5	0.1
P2rx3	13.8	2.6	1.1
Gnb4	13.6	2.8	2.1
Gp49a	13.6	2.5	1.2
Atf5	13.5	1.2	2.7
Plac8	13.3	1.3	1.4
Slfn1	12.8	1.6	0.3
Adamdec1	12.8	1.1	3.3
Ilgae	12.6	0.3	0.9
H2-Q9	12.4	1.7	1.8
H2-Q7	12.4	1.7	1.8
Cox6a2	12.3	0.1	5.8
Nqo1	12.2	3.7	0.8
H2-Q6	11.9	2.3	0.7
Hpgds	11.9	2.2	0.8
Plekhg4	11.7	3.1	8.8
Cdh23	11.7	0.6	1.1
Clstn3	11.5	7.4	2.7
Pdcd1lg2	11.5	2.7	1.1
Atf3	11.5	1.3	1.8
Heat7b1	11.4	1.4	1.9
Serpinf1	11.4	3.4	2.2
Trim6	11.3	5.3	101.6
C77080	11.2	4.6	7.2
39332	10.6	1.5	3.1
Podxl	10.5	6.0	27.1
Zfp948	10.3	6.4	2.9
Prg3	10.2	1.4	2.8
Rab6b	10.2	2.2	0.9
Abca4	10.1	2.7	4.2
Abca1	9.9	3.0	1.8
Cd300a	9.9	2.1	1.5
Hsd3b7	9.6	1.8	1.6
Mctp1	9.5	4.8	0.8
Tslp	9.4	5.2	3.7
Cd200r4	9.2	1.6	2.0
Pck2	9.2	1.7	1.4
S100a1	9.2	1.7	1.2
Il1b	9.2	6.0	11.1
Acan	9.0	2.9	1.1
Tulp3	8.9	2.7	1.2
Esam	8.9	1.8	8.9
Epb4.111	8.8	1.0	1.0
Dlg3	8.7	1.7	2.5
Sema3f	8.7	1.7	2.2
Olfr643	8.6	1.1	1.1
Flt1	8.6	2.0	154.6
Cd4	8.3	1.3	0.2
Pde5a	8.1	2.3	0.9
Slfn5	8.0	4.8	0.2
Phlda1	8.0	3.0	2.5
Slc22a23	7.9	2.1	2.1
Iffit1	7.9	2.0	0.6
Mylk3	7.9	1.6	3.1
Gimap4	7.8	1.1	2.1
Tnip3	7.8	0.7	1.6
Gm1337	7.7	15.0	2.6
Z610035D17Rik	7.7	2.8	2.0
Adora3	7.7	2.2	1.4

Up in *Ikzf1*^{ΔF4/ΔF4} Thy only (cont.)

Gene Name	Thy	Notch	BCR-ABL
Dapk1	7.7	2.4	1.0
Sox6	7.6	1.9	0.0
Igfb3	7.5	2.0	3.8
Scn5a	7.5	0.8	4.7
Irf4	7.5	2.2	0.9
Prnp	7.4	0.9	2.1
Fgfr1	7.4	0.8	1.7
Plk2	7.4	2.4	1.4
Hpgd	7.2	1.1	0.8
Ly6a	7.2	0.7	1.4
Gm4956	7.2	3.2	1.1
Otud1	7.1	1.5	1.2
Itgb3	7.0	2.5	2.1
Rassf4	7.0	5.6	1.9
Rnf43	7.0	0.9	2.1
Col4a2	7.0	1.8	0.7
Lag3	7.0	1.8	11.5
Neat1	6.9	1.9	1.1
F13a1	6.9	1.7	5.6
Nynrin	6.9	9.5	1.3
E130102H24Rik	6.8	1.8	1.6
Il7r	6.8	0.9	1.0
Syt13	6.8	1.7	0.8
Syde1	6.8	2.2	1.9
Dab2ip	6.8	2.6	1.4
Ilgag9	6.7	2.0	1.0
Bmf	6.7	1.1	0.8
Ldhd	6.6	4.3	1.8
Dennd2d	6.6	0.7	0.9
Wbscr27	6.6	3.0	3.1
Tgfb1	6.5	3.3	1.3
Sall2	6.5	1.7	3.0
Ppt2	6.4	1.2	1.0
Bcl6	6.4	1.8	1.1
Zfp760	6.3	3.9	1.6
Lilrb4	6.3	1.2	1.0
Dtx1	6.3	1.2	0.7
Tmem71	6.2	1.3	0.5
Srgap3	6.2	2.0	2.7
Arsi	6.2	2.0	4.3
Bbc3	6.2	0.6	0.7
Gbp9	6.1	0.8	0.4
H2-Gs10	6.1	1.4	1.0
Lyz2	6.1	1.0	0.9
Lypd6b	6.1	1.6	1.1
Trim16	6.0	1.2	2.5
Gm14446	6.0	1.0	0.5
Cabp1	6.0	2.7	6.4
Ddit3	6.0	0.7	1.4
Clec1b	5.9	1.5	3.3
Cd74	5.9	3.9	0.4
Gadd45g	5.9	3.1	1.9
8430423G03Rik	5.9	2.7	8.5
Ubqln3	5.9	1.8	1.1
Cpa3	5.8	1.1	27.2
Pdk2	5.8	1.0	0.9
Il1rl1	5.7	1.3	6.0
Trp53inp1	5.7	1.0	0.5
Mdga1	5.7	1.0	0.6
Cmtm3	5.7	2.6	2.2
Ifi27l2a	5.7	0.7	1.4
Pkd2l1	5.6	1.6	1.1
Slc25a27	5.6	1.7	4.7
Lfng	5.6	1.1	1.0
Cdkn1a	5.6	0.7	0.4
Dennd5b	5.5	4.1	1.6
Ikzf3	5.5	1.3	0.9
AA388235	5.5	1.3	1.6
Ypel3	5.4	1.6	1.1
Cd81	5.4	1.6	0.9

Up in *Ikzf1*^{ΔF4/ΔF4} Thy only (cont.)

Gene Name	Thy	Notch	BCR-ABL
Tnfaip3	5.4	1.2	0.7
Phyh1	5.4	0.8	0.8
Pcdhgc4	5.4	2.9	2.6
Eps8	5.3	10.7	0.5
Gimap6	5.3	1.1	1.5
Fnbp1l	5.3	2.2	0.5
Rgs1	5.2	2.9	1.2
Asah2	5.2	1.9	1.3
Ppp1r16b	5.2	1.1	1.5
Tsc22d1	5.1	2.2	4.4
Ypel1	5.1	1.7	2.3
Rab4a	5.1	3.9	2.0
Angptl6	5.1	0.9	2.2
Cyp4f13	5.0	1.4	0.9
Pcdhga12	5.0	3.0	2.6
Letm2	5.0	1.2	1.2
Trib1	5.0	1.8	2.1
Kcne3	5.0	1.1	1.0
2310028H24Rik	5.0	1.2	2.1
5830416P10Rik	4.9	1.2	0.9
Usp18	4.9	1.8	0.7
C230035116Rik	4.9	4.7	1.3
Tjp1	4.9	1.2	20.8
Maff	4.9	1.2	1.4
Ptgs2	4.9	1.6	0.6
Ypel2	4.9	1.8	0.4
Ctse	4.9	1.2	0.5
Trim30d	4.9	1.4	1.0
Tspan31	4.8	1.5	1.1
2210020M01Rik	4.8	0.4	12.1
Stx3	4.8	2.2	2.3
Cd97	4.8	1.3	0.7
Gdpc1	4.8	1.0	1.1
Il15	4.8	1.8	0.9
Klf11	4.8	1.2	1.6
Parvb	4.7	0.7	0.9
P2rx7	4.7	1.1	2.6
Niacr1	4.7	1.1	2.1
Zfp945	4.7	3.1	1.4
Rsad2	4.7	1.1	1.4
Lrig1	4.7	2.6	1.2
Wnt5b	4.7	2.4	3.4
Samd14	4.7	2.5	1.0
Soat2	4.7	1.3	4.4
Egr1	4.7	3.3	1.9
Syng1	4.6	0.3	1.9
Gzma	4.6	2.5	71.0
Ift81	4.5	1.5	7.2
Klhl24	4.5	1.8	1.5
0610039K10Rik	4.5	1.0	1.0
Csf2rb2	4.4	1.1	0.6
Megf8	4.4	4.9	2.2
Iffit2	4.4	1.1	1.3
A930003A15Rik	4.4	2.1	1.1
Zcwpw1	4.3	0.7	1.4
Cd274	4.3	1.1	1.2
Ccdc153	4.3	1.6	1.1
Hist2h2be	4.3	1.1	1.3
Sipa1l2	4.3	1.5	1.0
Camk2a	4.3	0.6	1.0
Col4a1	4.2	2.2	0.8
Il9r	4.2	1.8	42.8
Rtp4	4.2	1.9	0.6
Pde4b	4.2	1.7	1.1
Erp27	4.2	0.8	0.9
Zfp365	4.2	3.1	2.1
Gpr128	4.2	1.4	0.3
Art4	4.2	0.9	0.4
Scel	4.2	2.6	0.1
A930001N09Rik	4.2	1.7	0.9

Up in *Ikzf1*^{ΔF4/ΔF4} Thy only (cont.)

Gene Name	Thy	Notch	BCR-ABL
Ephb6	4.2	1.4	2.6
Cd28	4.2	1.5	1.3
Ier3	4.2	2.0	1.9
Gm11428	4.2	1.1	1.9
Ldlrad3	4.2	2.8	2.2
Hs6st2	4.1	2.4	0.5
Grn	4.1	2.9	1.0
Usp54	4.1	3.1	1.8
Zfp36	4.1	1.2	0.9
Aqp11	4.1	0.8	1.7
Ptger2	4.1	0.9	0.6
Tsc22d3	4.1	2.8	1.9
Xaf1	4.1	1.5	0.7
Arhgap31	4.1	1.9	1.7
Optn	4.0	3.4	0.5
Rab38	4.0	1.7	1.7
Dusp1	4.0	2.8	1.0
Med12l	4.0	2.8	0.6
Hist3h2a	4.0	1.0	1.0
H2-Ab1	4.0	3.0	1.1
Nrp1	4.0	0.9	1.4
Ttpa	4.0	2.1	0.9
Cldn4	4.0	2.4	2.2
Ier5	4.0	1.4	1.3
Nckap1	4.0	2.0	1.2
9430020K01Rik	3.9	2.6	2.6
Klk8	3.9	1.2	13.0
Acad10	3.9	1.5	1.4
1110051M20Rik	3.9	1.2	1.6
Fosb	3.9	3.0	1.5
Adck3	3.9	3.5	1.3
Tecpr1	3.9	1.8	1.1
Gabbr1	3.9	1.4	1.3
Socs3	3.9	1.2	0.8
Dtx3	3.9	1.1	1.2
1110028C15Rik	3.9	1.4	1.6
Nlrc5	3.9	2.4	0.6
Tmem140	3.9	1.3	1.0
Rgs10	3.8	1.6	0.9
Gpc1	3.8	2.7	0.9
H2-K1	3.8	1.6	0.9
Samd9l	3.8	0.8	1.0
Klf6	3.8	1.3	0.9
Cd53	3.8	3.0	1.6
Zhx2	3.8	2.2	1.4
Vopp1	3.8	1.6	1.3
Rad9b	3.8	1.3	1.3
F2r	3.8	1.9	1.6
Selm	3.7	0.7	2.1
St6galnac3	3.7	10.9	2.2
Gm14085	3.7	1.2	2.4
Il17re	3.7	1.1	16.0
Otos	3.7	3.0	1.0
AW011738	3.7	1.5	5.8
Abhd4	3.7	1.7	1.6
Slfm8	3.7	1.0	1.0
Thsd1	3.7	1.9	0.7
Gbp2	3.7	1.7	0.4
Arl4c	3.7	1.3	2.5
Nphp1	3.7	1.2	2.9
Gng2	3.7	1.5	0.9
Gimap9	3.6	1.1	0.8
Calcoco1	3.6	0.9	1.4
H2-T10	3.6	0.4	0.8
Arhgef40	3.6	1.0	3.5
Meis1	3.6	2.2	2.0
Rgs2	3.6	1.9	1.0
Nfkbiz	3.6	1.4	1.2
Pik3ip1	3.6	1.8	0.9
2610307P16Rik	3.6	1.5	2.0

Up in *Ikzf1*^{ΔF4/ΔF4} Thy only (cont.)

Gene Name	Thy	Notch	BCR-ABL
Adcy6	3.5	1.1	1.3
Slc2a9	3.5	2.7	1.1
Hjurp	3.5	1.3	1.4
Pip5k1b	3.5	1.9	0.8
6430706D22Rik	3.5	1.3	1.5
Nudt4	3.4	1.3	2.6
H2-T24	3.4	1.1	0.5
Foxj2	3.4	1.4	1.7
Oas1b	3.4	1.3	0.8
4930481A15Rik	3.4	1.7	0.8
Fam189b	3.4	2.2	1.1
4933407H18Rik	3.4	1.3	1.3
Tmprss7	3.4	1.8	0.8
Tanc1	3.4	2.3	2.3
Lpar6	3.4	2.0	1.0
Anxa5	3.4	1.8	2.5
Accs	3.4	1.9	1.5
Herc6	3.4	1.4	1.2
Kank3	3.4	1.7	1.6
Rbbp9	3.4	1.8	1.2
Ogdh	3.4	1.5	0.7
Pcyt1b	3.4	1.0	2.8
Wdr19	3.3	2.2	2.1
Glrp1	3.3	0.9	1.0
Ppp1r15a	3.3	1.3	1.3
Pisd-ps1	3.3	1.4	1.3
Pisd-ps3	3.3	1.4	1.3
Gm5918	3.3	1.0	1.7
Cd302	3.3	1.1	2.9
Gpr183	3.3	3.3	1.3
Zdhhc1	3.3	2.7	2.5
A730008H23Rik	3.3	1.3	1.4
Pcmt1	3.3	1.5	1.2
Malat1	3.3	2.0	0.8
Gbp8	3.3	0.6	0.7
Ccdc28a	3.3	1.2	1.4
Ctso	3.3	1.8	0.8
Sh3kbp1	3.3	1.8	1.0
Ctxn1	3.2	1.0	1.5
Cntd1	3.2	1.1	3.5
Armcx1	3.2	0.6	2.9
Zfp623	3.2	1.6	2.6
Itga2b	3.2	1.4	3.1
Gm5424	3.2	1.3	1.9
Fam102b	3.2	1.2	1.9
1500015A07Rik	3.2	1.0	1.5
Plk3	3.2	2.7	1.8
Gbp4	3.2	0.9	0.3
Fos	3.2	2.6	0.6
Cln2	3.2	2.3	2.1
Cd33	3.2	0.2	0.9
Fgf3	3.2	1.5	1.1
Eea1	3.2	2.4	0.9
Nwd1	3.1	0.5	14.9
Mcart6	3.1	1.4	0.2
Ptk7	3.1	2.3	1.3
Hist1h2bc	3.1	1.3	0.8
Ablim1	3.1	1.2	1.1
Tmem86a	3.1	1.2	0.5
6720401G13Rik	3.1	2.2	1.0
Plk1s1	3.1	1.4	1.6
Vcl	3.1	3.0	1.8
Vps13d	3.1	1.7	1.0
Rdm1	3.1	0.9	1.4
Thy1	3.1	1.1	9.9
B130034C11Rik	3.1	1.6	1.1
Slc18a2	3.1	2.4	13.6
Ikzf2	3.1	1.9	1.5
Arhgap21	3.1	2.3	1.2
Tcea2	3.0	1.7	1.5

Up in *Ikzf1*^{ΔF4/ΔF4} Thy only (cont.)

Gene Name	Thy	Notch	BCR-ABL
Gimap1	3.0	1.5	1.0
Myliip	3.0	2.2	1.1
Acrbp	3.0	1.3	0.9
Havcr2	3.0	1.3	0.9
Pim2	3.0	1.0	0.6

Up in *Ikzf1*^{ΔF4/ΔF4} Notch only

Gene Name	Thy	Notch	BCR-ABL
Ccbe1	9.5	229.6	2.3
Mmp9	16.8	205.1	2.4
Ednrb	1.6	166.8	5.5
Prom1	38.1	78.9	2.6
Tmem27	24.4	74.4	1.1
Odf3l1	4.1	69.5	0.5
Trim2	17.1	58.8	0.8
Lhfp	21.8	58.1	1.7
Ablim3	18.1	50.0	1.0
Serpinb8	8.8	46.1	0.8
Agtr1a	1.1	42.8	2.2
Sec14l2	4.3	40.8	1.6
Vegfc	1.1	38.7	3.1
Pvrl1	7.3	38.5	3.4
Mafb	11.5	36.3	1.6
Hspb2	2.1	35.5	3.1
Z300002M23Rik	4.5	35.3	1.1
Prdm5	4.7	34.5	3.5
1200009I06Rik	73.1	31.5	3.3
Susd4	38.7	29.1	1.6
Amotl1	4.2	28.8	1.5
Arnt2	13.5	28.6	2.3
Stra6	8.8	27.4	1.1
Trnp1	8.3	26.6	0.8
Fstl4	20.7	26.2	0.5
Hopx	5.4	24.4	0.5
Rhod	3.0	24.2	1.3
Clip4	16.4	23.9	39.2
Egfr	11.7	21.8	2.3
Lamb1	38.4	21.3	5.6
Lmo2	2.7	21.0	2.2
Tceal1	2.3	18.5	3.3
Fap	3.9	18.3	6.6
Fam101b	24.4	16.8	0.3
Icos	2.3	16.2	0.7
Shank1	5.1	16.2	3.0
Tirap	4.3	16.0	0.9
Chst2	7.9	16.0	2.0
Dixdc1	5.0	14.9	3.0
Pyroxd2	8.2	14.9	1.8
Il22	15.1	14.8	1.1
Gjc1	1.7	14.4	2.5
Pde9a	12.4	14.2	0.0
Cthrc1	9.1	14.0	0.5
Myo1b	13.6	12.6	2.6
Hbegf	2.2	12.4	0.8
Gjb2	8.0	12.2	1.1
Hspb8	2.1	12.0	0.5
Tspan32	1.8	11.5	1.0
Fabp4	6.7	11.4	2.3
Gli1	15.4	11.2	1.1
Sgip1	1.6	11.0	0.7
Chit1	1.1	10.9	1.1
Hey1	14.3	10.2	1.3
Fosl2	1.7	9.6	0.8
Bace1	2.4	9.3	2.3
Cryab	3.3	9.1	0.9
Acvrl1	7.4	9.0	1.4
C030034L19Rik	2.5	9.0	1.2
Amica1	3.7	9.0	1.5
Spats2l	2.1	8.9	1.0

Up in *Ikzf1*^{ΔF4/ΔF4} Notch only (cont.)

Gene Name	Thy	Notch	BCR-ABL
Olfml3	2.7	8.8	1.3
Cox4i2	1.4	8.8	2.4
Abat	3.1	8.6	1.6
Tmtc2	2.2	8.5	48.3
Rpl39l	5.8	8.3	0.6
Btbd11	5.3	8.3	1.8
5730416F02Rik	2.4	8.1	0.8
Slc35d3	1.5	8.0	3.7
Aldh3b1	1.1	7.4	3.0
Slc9a2	3.4	7.3	11.1
Tspan7	6.0	7.2	1.7
Svep1	1.2	7.1	0.7
Igf2bp2	1.6	6.4	1.1
Cxcl10	5.5	6.4	1.2
Ldlrap1	1.6	6.4	0.9
Trim36	2.9	6.3	1.8
Slc25a13	2.0	6.3	4.1
D630039A03Rik	6.3	6.3	0.4
Lgals3	10.3	6.3	1.7
Rras	5.1	6.3	2.4
Sepp1	2.5	6.2	0.7
Dlg1	1.2	6.1	1.0
Bpil2	1.4	6.1	1.0
Il1r12	1.2	6.0	2.5
Frmd4b	3.1	6.0	2.9
Fhl2	3.0	5.8	0.9
Fgd1	2.2	5.6	36.6
Igfbp7	10.0	5.5	0.7
Sh3pxd2a	2.1	5.4	2.0
Ahnak	3.1	5.4	1.7
Capg	2.4	5.3	0.9
Cd160	4.9	5.3	0.3
Esm1	1.6	5.3	3.2
Inpp1	22.7	5.3	1.1
Fam26f	1.9	5.3	1.2
Z310007L24Rik	8.8	5.1	1.1
Lpar4	4.1	5.0	6.2
Nrarp	1.0	5.0	0.8
Bmp7	11.8	5.0	2.1
Nfil3	1.9	4.9	2.0
Appl2	9.7	4.9	1.1
Axl	2.6	4.9	2.3
Snrk	1.4	4.9	1.0
Abcb1a	9.8	4.8	2.1
St6gal1	2.4	4.8	3.3
Ppap2a	2.3	4.8	2.4
Tnfrsf11	5.4	4.7	0.9
Ccdc125	2.7	4.7	1.1
Tnfrsf21	2.2	4.7	1.0
Steap3	4.9	4.6	0.8
Dsty	2.4	4.6	1.3
Casp1	2.9	4.6	1.3
Epb4.115	4.0	4.6	1.1
Fggy	4.0	4.5	1.3
Slc9a9	2.0	4.5	0.5
Elk3	1.4	4.5	1.8
Id2	1.8	4.5	1.1
Airn	20.1	4.4	1.3
Ifi204	18.6	4.3	1.1
Atp2b4	1.9	4.3	3.8
Sox13	9.4	4.3	0.6
Tmem2	2.4	4.2	1.3
Rffl	2.2	4.1	0.8
Nrip1	1.4	4.1	1.1
Dock9	2.8	4.1	1.4
Chd7	8.1	4.1	3.1
Tmem55a	2.8	4.1	1.5
Mtap	1.9	4.0	1.2
Msr3	2.2	4.0	0.6
Upb1	2.4	3.9	3.1

Up in *Ikzf1*^{ΔF4/ΔF4} Notch only (cont.)

Gene Name	Thy	Notch	BCR-ABL
Dio2	2.7	3.9	0.7
Ptpn13	62.8	3.8	1.6
Cobll1	2.6	3.7	1.2
Sh3bp5	2.3	3.7	0.9
Ntn1	2.2	3.6	9.1
Slc44a1	3.5	3.6	1.9
Arrdc3	2.4	3.6	0.9
Ccr7	3.0	3.5	0.7
Morf4l2	1.2	3.5	1.3
Gkap1	3.7	3.5	2.2
Prmt7	1.9	3.4	1.4
Plcl1	5.1	3.4	7.9
Fam20a	21.2	3.4	1.2
Cntln	1.9	3.4	0.9
Atp8b4	3.3	3.3	2.6
Rel1	2.8	3.3	1.1
Gm2a	1.5	3.3	0.9
Rapgef2	1.1	3.3	1.5
Enc1	2.3	3.3	1.0
Arhgap5	2.2	3.2	3.1
Fbp1	1.1	3.2	1.2
Bin1	1.6	3.2	0.9
Cnksr3	1.8	3.2	2.9
Nhsl1	7.3	3.1	3.7
Fmnl2	6.1	3.1	12.4
4632428N05Rik	0.9	3.1	0.4
Cdh1	3.2	3.1	0.4
Sell	1.4	3.1	0.5

Up in *Ikzf1*^{ΔF4/ΔF4} BCR-ABL only

Gene Name	Thy	Notch	BCR-ABL
Igf2as	4.6	2.3	2710.9
Kcnma1	15.6	94.7	1757.2
Hoxb8	1.2	1.1	1247.8
Hoxb7	2.2	0.9	999.1
Igf2	6.6	1.6	930.3
Ngp	6.6	0.5	717.5
Prdm8	1.9	1.1	605.2
Lmo1	1.1	0.8	473.7
Chi3l3	3.8	0.7	355.4
S100a9	7.6	0.7	270.8
Afap1l1	2.6	10.3	262.4
Retnl	1.1	1.1	139.7
Efna1	17.5	4.8	128.1
Pkdcc	6.3	1.0	102.0
S100a8	5.4	0.6	93.0
Smpd3	13.0	1.8	60.9
Lhx2	5.9	1.0	58.8
Sh2b2	1.4	1.6	49.5
Mdfi	2.3	5.4	45.3
Nxph4	6.8	0.8	43.5
Celf4	3.2	2.3	41.2
Tbx19	6.3	1.3	31.8
Hs3st2	1.3	1.1	31.8
Prg2	19.4	0.7	31.0
Cyp27a1	9.2	2.3	25.7
Ndr1	3.0	1.3	25.4
Arg1	11.5	1.3	23.5
Mgl2	8.8	1.4	22.7
B3gnt5	2.3	2.6	20.9
Prss12	2.2	1.1	20.5
Tgfbr3	1.5	0.8	20.4
Hip1	1.3	0.6	18.1
Rps4y2	2.1	2.0	17.7
Ifitm1	4.4	2.0	16.8
Galnt3	3.7	3.8	16.1
Klhl23	1.8	3.7	15.2
Olfm1	4.0	1.1	14.5
Col6a6	1.1	1.1	13.5

Up in *Ikzf1*^{ΔF4/ΔF4} BCR-ABL only (cont.)

Gene Name	Thy	Notch	BCR-ABL
Epb4.1l3	1.9	2.7	13.2
Fxyd6	10.6	1.4	13.2
Ptk2	3.5	0.7	12.4
Ly86	23.1	26.3	11.7
Cdc42bpa	2.9	2.1	11.5
Angptl2	2.0	1.8	11.3
Sulf2	3.4	0.7	11.1
Fhl1	8.8	1.4	11.0
Grb10	4.3	3.6	10.9
Cask	2.7	1.1	10.8
Luzp1	2.8	3.0	10.8
Tac4	4.1	1.2	10.6
39334	1.0	1.2	10.5
Lysmd2	2.2	2.3	10.1
Tnni2	2.2	1.5	10.0
Ccl8	10.5	1.1	9.6
Clcf1	5.3	1.1	9.5
S1pr3	1.9	1.0	9.4
Ccdc19	3.4	1.6	9.1
C1qtnf6	13.0	5.0	9.1
Aes	0.8	0.7	8.9
Pard6g	1.2	1.4	8.3
Ccnd1	4.9	1.3	8.3
Depdc7	3.9	1.6	8.2
Ppap2b	6.6	3.7	8.2
Nfix	2.3	1.5	7.7
Dusp4	1.5	0.9	7.7
Epdr1	13.8	5.5	7.7
Fgf13	3.5	0.4	7.6
Fkbp11	1.5	0.9	7.5
Ston1	2.4	1.3	7.5
B230118H07Rik	2.7	1.9	7.4
Tom1l1	4.3	1.4	7.4
Chac1	2.0	1.4	7.4
Gpt2	3.0	1.0	7.1
Asb2	6.3	1.6	7.0
Cdc42bpb	3.2	1.2	6.9
Clec2i	1.4	1.5	6.8
Tst	1.0	2.4	6.5
Echdc2	5.0	3.2	6.4
Filip1	9.5	10.8	6.3
Ctsk	1.8	1.3	6.1
Cd248	2.5	1.0	6.1
Iqgap2	1.3	1.2	6.0
Nfia	2.6	2.3	6.0
Plxnb2	4.9	1.0	5.9
Slamf9	4.9	3.2	5.9
Tcf7l1	1.1	2.0	5.9
Tubb3	1.5	0.4	5.8
Emb	1.3	1.8	5.7
Asap2	3.4	1.8	5.6
St3gal5	1.8	1.7	5.6
Syde2	1.8	1.0	5.5
Rpp25	1.4	0.7	5.4
Nupr1	3.3	2.0	5.4
Cst7	7.1	3.2	5.4
Spire1	4.7	1.4	5.4
Spry4	1.4	2.1	5.3
Nsg2	1.1	0.7	5.3
Itga5	1.3	1.9	5.2
Itgax	2.1	0.9	5.2
Smad1	1.6	1.2	5.1
P4ha2	2.6	0.7	5.0
Slc16a3	1.5	0.3	5.0
Stac2	5.5	1.1	4.9
Erf	1.0	1.1	4.9
Fetub	1.1	1.6	4.9
1700025G04Rik	1.6	1.4	4.9
Rag1	1.6	1.4	4.8
Naca	1.3	1.1	4.4

Up in *Ikzf1*^{ΔF4/ΔF4} BCR-ABL only (cont.)

Gene Name	Thy	Notch	BCR-ABL
Prickle3	1.4	0.9	4.4
Decr2	2.5	1.4	4.4
Atp5k	1.1	1.1	4.4
Rdh10	2.9	2.1	4.3
Ptgir	8.8	4.7	4.3
Gas6	1.1	1.8	4.2
Eya1	3.0	0.9	4.2
Rasa4	1.9	0.3	4.2
St3gal6	2.0	0.3	4.1
Dennd3	1.4	0.8	4.1
Zfp385a	1.3	1.3	4.0
Ncf1	3.0	2.4	4.0
Ccdc90b	1.7	2.9	3.9
Zbtb8os	1.4	0.9	3.9
Clec7a	3.3	1.8	3.8
Fam43a	1.4	1.1	3.7
Gng4	10.0	16.8	3.7
Fes	1.2	1.6	3.6
Sema7a	8.3	1.9	3.6
Uchl1	1.1	0.8	3.6
Asns	2.6	0.8	3.5
Arhgef11	1.7	1.3	3.5
Plxnd1	1.5	2.1	3.5

Down in *Ikzf1*^{ΔF4/ΔF4} Thy, Notch, and BCR-ABL

Gene Name	Thy	Notch	BCR-ABL
Ly6d	8.4	45.8	50.5
2010001M09Rik	6.3	36.9	4.7
Napsa	11.0	25.0	3.5
Bst1	5.9	21.1	4.4
Blk	21.7	11.8	19.7
AA467197	4.6	11.8	4.7
Epcam	7.1	7.8	14.3
Lif	13.0	3.6	4.1
Armcx4	8.8	3.5	9.7

 > 10-fold down

 3- to 10-fold down

Down in *Ikzf1*^{ΔF4/ΔF4} Thy and Notch

Gene Name	Thy	Notch	BCR-ABL
Il34	8.1	54.3	2.9
Tox3	3.4	45.8	1.0
Erg	4.3	35.9	1.9
5830411N06Rik	94.4	32.7	1.0
Serp1b1a	3.4	31.0	0.7
Rasa4	7.5	18.6	0.3
Ncf4	14.2	16.7	2.1
Cpne2	7.7	16.4	0.9
Card10	6.0	14.4	0.9
4921525O09Rik	9.2	14.0	2.2
Gpr174	7.7	13.4	47.2
Ccdc164	22.8	12.3	7.7
Itgae	35.8	11.8	1.8
Tubb2a-ps2	5.2	10.6	3.9
Grasp	3.7	9.5	1.0
Lsp1	12.5	9.4	0.4
Spib	4.5	9.3	3.0
Tctex1d1	26.8	8.7	1.0
Unc5cl	6.4	8.0	30.5
Nkg7	3.9	6.6	0.4
Tubb3	21.6	6.2	0.7
Itgb7	7.1	6.1	1.0
Trim46	5.7	6.0	1.5
Rtn4r1	8.9	6.0	1.4
Chst10	5.7	5.9	3.1
AW112010	3.3	5.4	2.8
Fbln2	3.1	5.2	3.5
Epsti1	4.9	5.0	3.3
Cdh23	10.5	4.6	2.5
Nsg2	3.2	4.5	0.7
Anxa2	8.1	4.3	1.3
Fgf13	3.6	4.1	0.6
Nefh	3.9	4.0	2.3
Preli2	5.6	3.9	1.4
Clec12a	3.9	3.9	2.3
Lamc1	4.7	3.7	1.0
Igf2bp3	8.9	3.6	0.8
Pld4	5.3	3.4	1.0
1700048O20Rik	4.3	3.3	1.7
Il7r	3.5	3.3	1.2

Down in *Ikzf1*^{ΔF4/ΔF4} Notch and BCR-ABL

Gene Name	Thy	Notch	BCR-ABL
Gm5111	2.7	9.0	7.5
Arl5c	5.2	7.0	21.3
Lynx1	2.0	6.8	11.2
Cxcr5	7.0	6.7	27.6
Cd2	3.5	5.8	10.1

Down in *Ikzf1*^{ΔF4/ΔF4} Thy and BCR-ABL

Gene Name	Thy	Notch	BCR-ABL
BC064078	8.1	5.2	749.8
Zbp1	3.1	2.4	36.0
Akr1c12	3.5	1.4	34.2
Tnfrsf26	4.6	1.4	16.9
Acp5	5.6	2.0	10.6
Hsd11b1	7.2	2.2	9.4
Ltb	3.0	2.4	8.7
Tes	3.3	2.3	8.1
Socs1	7.5	2.2	5.9
Rasgrp1	6.3	1.3	5.4
Plod2	3.2	2.5	5.2
Sp100	4.9	2.5	4.9
Lta	49.7	3.8	4.7
Tmem121	3.0	1.5	4.5
Emid1	7.3	2.6	4.1

Down in *Ikzf1*^{ΔF4/ΔF4} Thy only

Gene Name	Thy	Notch	BCR-ABL
Hbb-b1	170.2	3.7	1.1
Hbb-b2	170.2	3.7	1.1
Pdcd1	79.3	2.3	0.6
Trib2	60.6	2.4	0.5
Gap1	28.5	1.7	16.4
Cyp11a1	25.3	1.5	0.9
Gpr114	23.6	1.4	0.9
Stk39	22.5	1.1	0.4
Cdh1	19.1	0.6	10.9
Pglyrp1	17.5	1.5	0.9
Ndr2	16.8	2.4	1.0
Il17rb	16.3	0.8	1.8
Ccr4	14.7	0.7	13.9
Lat2	13.0	3.5	2.1
Ccdc102a	12.8	1.7	1.6
Perp	12.7	0.6	11.6
Cldn2	12.0	2.9	1.0
Mfsd2a	11.4	1.5	2.7
Scin	10.4	4.6	2.5
Itgb5	10.0	1.1	2.8
Naaa	9.8	1.5	1.7
Trfr2	9.5	4.8	4.4
Il12rb1	9.0	1.6	11.3
Gpr97	8.8	2.5	2.1
Kmo	8.7	6.0	2.3
Rag2	8.6	1.0	0.5
Chdh	7.9	1.2	1.0
Rpl35	7.9	1.1	1.0
Adamts2	7.9	5.0	0.2
Trpa1	7.8	4.7	0.2
Cdr2	7.7	1.3	1.0
Psg17	7.7	3.0	2.9
Sdc4	7.7	1.9	1.3
Cd59a	7.4	8.8	3.3
Sytl4	7.3	4.6	53.5
Hmga1-rs1	7.1	2.1	1.7
St3gal2	7.0	2.2	1.2
Ms4a4c	6.9	2.9	7.5
Hmga1	6.9	2.0	1.6
Prr5	6.9	3.4	1.0
Gzma	6.5	1.3	0.5
Fam20a	6.4	1.0	1.9
Osm	6.2	1.8	1.1
Sorl1	6.1	4.7	2.5
Clnk	6.1	2.2	0.9
Slpi	5.7	2.2	3.9
Ccdc135	5.7	5.0	1.7
Pgam2	5.6	1.5	2.7
Hbegf	5.5	0.5	4.3

Down in *Ikzf1*^{ΔF4/ΔF4} Thy only (cont.)

Gene Name	Thy	Notch	BCR-ABL
Il18rap	5.5	1.9	4.0
Tspan9	5.4	2.8	1.1
Cd52	5.4	1.7	1.1
Ccne1	5.3	1.7	0.9
Lonrf1	5.3	2.1	0.7
Ttc39c	5.3	1.0	0.6
Gm12504	5.2	1.3	1.4
Lcn4	5.1	3.7	6.3
Socs2	5.0	1.1	0.8
Id1	5.0	0.4	1.1
Ahr	4.9	2.6	19.1
Thbs1	4.9	1.3	1.8
Cndp2	4.9	2.4	1.8
Fgl2	4.8	7.8	2.4
Fam129b	4.8	1.6	1.7
Igsf8	4.8	1.6	0.8
Slc25a12	4.7	2.6	1.2
Mier2	4.7	1.4	1.1
Rftn1	4.7	2.0	1.5
Gas6	4.7	1.2	0.6
Myl4	4.6	2.0	2.6
Hp	4.6	1.3	1.8
Mgst1	4.6	4.8	2.0
D8Erd82e	4.5	1.3	1.2
Galk1	4.5	1.5	0.8
Angptl4	4.5	1.2	1.7
Griffin	4.5	5.1	4.4
1110008P14Rik	4.4	1.7	1.9
Cyba	4.4	3.3	1.6
Fam195a	4.4	1.8	1.2
Rps6k1	4.3	1.3	2.9
Esm1	4.3	0.5	0.8
Il10ra	4.2	1.7	2.1
Prkar2a	4.2	0.8	2.5
Cish	4.2	1.8	1.4
Fstl1	4.2	1.1	2.0
Tpm4	4.2	2.2	1.2
Tnnt1	4.2	2.1	3.3
Gale	4.0	1.7	1.2
Pparg	4.0	1.2	1.2
Irf8	4.0	1.7	1.0
Atp13a2	4.0	2.8	1.5
Myo1f	4.0	2.3	2.5
Ada	3.9	1.8	1.9
Sema4a	3.9	1.4	2.4
Haao	3.8	4.4	1.2
Thy1	3.8	1.2	1.0
Ogn	3.8	1.1	0.7
Adam8	3.8	1.3	2.1
Rplp1	3.8	1.3	1.3
Ccr2	3.8	4.4	0.5
Dcl2	3.8	3.1	0.6
Arl4c	3.8	2.0	0.9
Fam102a	3.8	2.5	0.9
Padi2	3.7	2.6	1.9
Larp1b	3.7	1.2	1.3
Xylt1	3.7	0.9	1.5
Uqcrcq	3.7	1.6	1.2
Prss57	3.7	2.5	4.4
2210020M01Rik	3.7	4.2	0.2
Sh2d5	3.7	2.3	3.1
Pdlim1	3.7	1.6	1.2
Prr13	3.7	2.0	2.0
Col1a1	3.7	1.1	2.1
Rps6ka4	3.7	1.2	1.0
Cd7	3.7	1.6	0.9
Zfp518b	3.6	1.0	1.0
Bcat1	3.6	2.2	1.0
Dpm3	3.6	1.5	1.1

Down in *Ikzf1*^{ΔF4/ΔF4} Thy only (cont.)

Gene Name	Thy	Notch	BCR-ABL
Ldha	3.6	1.7	0.9
Prtn3	3.6	2.2	0.6
Baiap3	3.6	9.9	1.5
Mospd3	3.6	1.3	1.1
Ydjc	3.6	1.3	1.0
Junb	3.5	1.2	1.8
Tdrkh	3.5	2.8	2.5
St3gal5	3.5	1.2	0.8
Nme2	3.5	1.6	1.2
Car12	3.4	1.1	1.5
Pgp	3.4	1.4	1.0
Relt	3.4	1.3	1.4
Gbp8	3.4	3.3	3.4
Ubt1	3.4	1.7	1.4
1190002H23Rik	3.4	0.9	2.8
Pgm2	3.4	2.2	1.3
Palm	3.3	1.7	2.5
Rnaseh2c	3.3	1.1	1.2
Ms4a4b	3.3	2.2	13.1
Fam169b	3.3	1.3	9.3
Tpi1	3.2	2.3	1.0
Il10rb	3.2	2.6	1.8
Emb	3.2	0.8	0.2
Ccbl2	3.2	1.4	1.7
Dkk1	3.2	0.6	2.3
Adam11	3.2	0.4	0.4
Cenpv	3.2	1.5	1.1
Tmem191c	3.2	2.2	1.8
Gcsh	3.2	1.4	1.1
Kifc3	3.2	6.3	1.6
Tas1r1	3.2	1.6	2.9
Ppa1	3.2	1.3	1.1
Fam84b	3.2	1.0	1.6
Ptgr1	3.1	0.9	2.9
Egfl7	3.1	1.4	1.0
Alas1	3.1	1.1	0.9
Itga4	3.1	2.1	1.6
Prss30	3.1	3.4	1.4
Dgke	3.1	1.7	1.7
Lactb	3.1	1.4	1.2
Bgn	3.1	1.1	1.9
Gpr25	3.1	1.2	1.0
Ccdc124	3.1	1.2	1.3
Bhlhe40	3.1	2.9	0.7
Rag1	3.1	2.5	0.3
Col1a2	3.1	1.2	2.4
Fam174b	3.0	2.6	6.5
Top1mt	3.0	1.2	0.7
Ccnd3	3.0	2.2	1.4
Edf1	3.0	1.4	1.1

Down in *Ikzf1*^{ΔF4/ΔF4} Notch only

Gene Name	Thy	Notch	BCR-ABL
Tm4sf5	2.6	923.7	3.6
Cox6a2	5.3	153.6	0.8
Cd8a	2.5	64.5	1.0
Zfp641	2.2	51.0	3.8
Grhl3	2.9	47.9	0.9
Tle6	1.8	38.5	0.3
Hmgcs2	2.8	36.3	1.0
Idi2	4.2	36.1	1.0
Cdk1	2.4	32.9	2.1
BC018473	4.4	31.5	2.8
Rgl3	8.8	30.7	1.7
Crhbp	6.4	27.6	2.2
Ly6k	2.3	20.2	12.4
Epor	4.6	20.1	4.2
Cd4	1.2	20.0	7.3

Down in *Ikzf1*^{ΔF4/ΔF4} Notch only (cont.)

Gene Name	Thy	Notch	BCR-ABL
Ampd1	4.5	19.4	1.7
Chrna9	1.6	18.7	0.7
Nwd1	1.2	18.5	0.1
Rgs11	2.5	18.4	1.4
Il4ra	4.6	17.8	1.2
Cd8b1	2.5	17.2	1.0
2310007L24Rik	1.2	15.7	1.0
Camk1g	1.0	15.6	0.8
Tox2	7.8	15.1	2.8
Cth	2.8	15.1	0.3
Pygl	4.0	14.9	1.5
Plcg2	2.8	14.8	1.1
Stc2	0.3	14.2	1.6
Dhrs3	2.4	14.1	2.2
Muc13	1.2	13.8	5.2
Rap1gap2	22.3	13.8	0.7
Hoxa7	46.1	13.7	1.8
Atp1b1	1.4	13.6	1.7
Gbp11	5.6	13.6	17.2
Pvr	4.4	13.1	1.3
Btk	5.1	12.0	1.5
H2-T3	1.6	11.9	0.5
Elovl3	1.9	11.2	0.5
Insl5	4.2	10.8	1.0
Tmem221	1.8	10.5	4.3
Timp3	2.7	10.0	2.7
Gm12253	4.2	9.9	1.0
1700001O22Rik	1.8	9.8	0.5
Rorc	1.3	9.3	1.8
Cd44	3.9	9.2	1.8
Tmem45a	1.7	9.1	2.5
Tubb2b	12.1	8.7	4.2
Zfyve28	5.3	8.6	2.2
39328	1.0	8.3	1.3
Zdhhc14	2.8	7.8	2.9
Gpr162	1.1	7.8	4.4
Slc37a2	1.4	7.8	1.5
Dpf1	4.4	7.8	1.6
Gab2	1.0	7.8	1.1
Srgap3	0.5	7.7	1.7
Cxadr	2.1	7.6	1.9
Sidt1	2.0	7.5	1.1
Erbp3	5.6	7.4	4.0
Patl2	1.3	7.1	2.4
Tmem90a	2.8	7.0	2.6
Gm8909	1.5	7.0	3.8
Card9	1.7	6.7	0.5
Col15a1	3.7	6.5	4.8
Ppp3cc	2.5	6.3	2.3
Cd72	12.2	6.2	2.4
B4galnt2	2.1	6.2	3.2
Fam129a	1.3	6.2	0.2
Degs2	1.5	6.2	1.0
Il21r	2.0	6.2	2.1
Dsp	4.7	6.1	0.9
Ccr9	2.5	6.0	0.9
H2-T10	1.3	5.9	1.6
Fam183b	1.2	5.8	7.7
Gramd3	1.6	5.7	1.1
Nucb2	4.2	5.6	0.9
Parvb	7.1	5.5	2.8
P2rx1	2.0	5.5	2.1
Icam1	2.3	5.4	2.7
Gm14085	1.1	5.4	5.7
P4ha2	1.2	5.4	0.6
Bambi-ps1	2.2	5.3	2.0
Tubb2a	2.8	5.2	1.3
Ankrd6	1.7	5.1	1.3
Scara3	3.1	5.1	2.6

Down in *Ikzf1*^{ΔF4/ΔF4} Notch only (cont.)

Gene Name	Thy	Notch	BCR-ABL
Wdr78	1.8	5.1	0.9
Vegfa	2.3	5.1	0.9
Tmprss4	4.9	5.0	11.3
Pdlim4	1.0	5.0	1.5
Tns1	2.8	4.9	2.3
Slc15a1	9.9	4.9	3.4
Slc30a4	2.6	4.6	1.4
Gsn	2.2	4.3	1.7
Il2rb	8.5	4.2	0.1
Akap12	1.7	4.2	1.4
Gzmb	2.2	4.1	0.5
Bcl6	1.2	4.0	1.4
Meis3	1.6	3.9	2.0
Tnfrsf9	2.4	3.9	2.2
Dennd5a	0.8	3.9	0.9
Bcl2l11	1.4	3.8	1.3
Capn3	1.2	3.8	6.5
Spint2	2.3	3.6	8.6
Pou6f1	1.6	3.6	1.1
Colq	6.8	3.4	1.9
Slc43a2	1.6	3.4	1.5
Ptcr	2.1	3.3	1.0
Cerk	1.4	3.3	1.4
Spns3	2.8	3.3	2.9
Cd6	9.2	3.3	0.6
Ets2	0.9	3.2	0.9
Thrb	1.0	3.2	0.8
Xbp1	2.5	3.1	3.0
Camkk1	1.3	3.0	0.8
Eif1b	1.2	3.0	1.4

Down in *Ikzf1*^{ΔF4/ΔF4} BCR-ABL only

Gene Name	Thy	Notch	BCR-ABL
Fcrl6	1.2	1.5	198.3
Camk2b	42.3	15.1	167.8
Rps6ka6	3.2	2.1	142.4
Pdzd2	19.1	0.4	130.0
Pde9a	3.3	0.3	122.0
Crflf1	6.0	1.5	120.1
Ubash3a	1.9	1.7	117.2
Tmem59l	6.7	1.9	82.9
Fzd6	1.1	0.0	77.3
Cdhr2	1.4	1.5	71.4
Dlx1	4.3	2.5	71.0
Tnfrsf8	3.4	1.9	58.1
Gldc	1.4	3.7	58.0
Il2ra	2.1	1.0	55.2
Btla	17.7	0.7	47.9
Vill	4.2	2.4	46.0
Prkcq	1.1	1.5	42.4
Magi1	1.7	2.3	34.3
Il33	4.3	1.7	34.0
Enpep	4.7	1.6	26.3
Sytl2	1.3	4.7	20.6
Mpzl2	0.3	0.4	19.3
Gja1	1.1	0.3	17.0
Gpr171	1.8	0.9	15.4
P2ry10	1.0	1.1	14.0
Arpp21	2.7	1.5	13.6
2310033E01Rik	2.4	1.5	13.1
Pla2g2f	1.1	1.5	13.1
Nov	8.2	2.3	12.2
Gpr65	2.5	2.2	12.0
Dpp4	1.4	0.7	11.1
Als2cl	1.2	0.3	11.1
2210404O07Rik	1.8	2.1	10.7
Eli3	1.7	0.9	10.3
Gbp2	1.4	1.3	10.1

Down in *Ikzf1*^{ΔF4/ΔF4} BCR-ABL only (cont.)

Gene Name	Thy	Notch	BCR-ABL
Akr1c13	2.5	1.6	10.0
Scn4b	1.0	0.3	9.3
Sell	1.4	0.6	9.0
Rinl	1.7	1.5	7.9
Lax1	1.3	1.0	7.8
Pcdh9	1.5	0.5	7.7
Sertad4	3.4	1.4	7.7
Igf1	3.4	1.3	7.5
Dok3	11.3	1.6	6.9
Pyhin1	4.9	2.1	6.6
Ly6a	0.7	1.9	6.5
Zfp507	0.9	0.9	6.4
Hmgcll1	2.7	1.5	6.4
Atxn7l1	1.9	1.5	6.4
Gpr18	4.2	1.4	6.2
BC049715	1.8	1.9	6.1
Cd74	1.3	1.1	6.1
Folr4	7.1	1.8	6.0
Endou	1.2	2.2	6.0
Pdcd4	1.2	1.0	6.0
Dntt	1.0	1.6	5.8
3110052M02Rik	1.2	1.2	5.6
Cav2	1.7	1.6	5.6
Gbp4	1.6	2.1	5.5
Rgs8	2.2	0.9	5.4
Cpm	4.6	0.9	5.4
Clic6	1.9	1.5	5.4
Cybb	1.9	1.7	5.3
Sytl1	2.0	2.0	5.3
Ms4a7	1.2	1.0	5.3
Zbtb80s	1.7	1.8	5.2
Serpine2	1.6	2.7	5.2
Gpr132	1.3	1.0	5.2
Eci1	1.0	1.3	5.2
Traf5	2.4	0.7	5.2
Lat	1.2	1.5	5.1
Tmem86a	1.3	1.3	5.0
Arntl	1.7	2.1	5.0
Mycn	2.5	1.8	4.9
Dock8	1.1	1.3	4.8
Ntng2	2.1	0.5	4.7
Cnrip1	11.3	4.8	4.7
Otub2	0.6	0.9	4.7
Mcart6	1.7	1.3	4.7
Serpinb2	2.4	1.5	4.6
Slc14a1	2.0	2.3	4.6
Nlrp3	3.5	3.8	4.6
Crisp1	1.2	1.5	4.6
Cacnb1	3.4	1.6	4.6
Dio2	2.1	0.4	4.5
Mxd4	1.8	2.1	4.5
Sned1	6.3	1.2	4.4
Sifn2	0.9	0.9	4.4
4632428N05Rik	1.9	1.4	4.3
Glpr1	1.6	2.2	4.2
Gbp7	1.1	1.2	4.2
Atp5k	2.9	1.6	4.2
Gbp5	1.2	1.6	4.2
Rnf157	1.7	1.3	4.1
Hspb8	1.7	0.2	4.1
Fam129c	1.6	1.3	4.0
Gbp3	1.2	1.5	4.0
Gm12250	2.9	2.3	4.0
Apoe	0.5	1.6	4.0
Tifa	1.3	0.3	3.9
Hnf1b	1.5	1.5	3.9
Ypel2	0.9	0.9	3.9
Sla2	1.9	1.8	3.8
Cd38	0.9	0.4	3.8

Down in *Ikzf1*^{ΔF4/ΔF4} BCR-ABL only (cont.)

Gene Name	Thy	Notch	BCR-ABL
Cacnb2	1.3	1.7	3.8
Rpph1	5.5	1.3	3.8
Mpeg1	2.1	2.1	3.8
Spnb2	1.1	1.1	3.7
Myl10	2.8	2.8	3.7
Pltp	1.8	1.9	3.7
Timp1	2.8	1.5	3.6
Unc13d	2.4	1.6	3.6
Clgn	3.2	2.6	3.6
5830405N20Rik	1.4	0.9	3.5
Bcl2	1.9	1.8	3.5
Tgfb3	1.6	0.3	3.4

