

## **Supplemental Material**

### **IL-7-dependent STAT1 activation limits homeostatic CD4 T cell expansion**

Cecile Le Saout<sup>1</sup>, Megan A. Luckey<sup>2</sup>, Alejandro V. Villarino<sup>3</sup>, Mindy Smith<sup>1</sup>, Rebecca B. Hasley<sup>1</sup>, Timothy G. Myers<sup>4</sup>, Hiromi Imamichi<sup>1</sup>, Jung-Hyun Park<sup>2</sup>, John J O'Shea<sup>3</sup>, H. Clifford Lane<sup>1</sup> and Marta Catalfamo<sup>1,\*</sup>

<sup>1</sup>CMRS/Laboratory of Immunoregulation, NIAID, NIH, Bethesda, MD, USA.

\*Department of Microbiology and Immunology. Georgetown University School of Medicine. Washington DC, USA.

<sup>2</sup>Experimental Immunology Branch, CCR, NCI, NIH, Bethesda, MD, USA

<sup>3</sup>Lymphocyte Cell Biology Section, NIAMS, NIH, Bethesda, MD, USA

<sup>4</sup>Genomic Technologies Section, Research Technologies Branch, NIAID, NIH, Bethesda, MD, USA

**Figure S1. STAT1 Tg mice exhibit similar T cell counts and differentiation profiles than WT littermates.** (A) Schematic representation of the transgene construct of mouse STAT1 cDNA under the control of the human CD2 enhancer/promoter used to generate transgenic (Tg) mice. (B) Total cellularity in LNs, spleen and thymus from WT (n= 16, black symbols) and STAT1 Tg (n= 16, red symbols) mice. (C) Absolute numbers of CD4 and CD8 T cells were enumerated in the LNs of both groups. (D) Gating strategy and percentages of naïve (Tn: CD44<sup>low</sup> CD62L<sup>high</sup>), central memory (Tcm: CD44<sup>high</sup> CD62L<sup>high</sup>), effector/effector memory (Teff/em: CD44<sup>high</sup> CD62L<sup>low</sup>) on gated CD3<sup>+</sup> CD4<sup>+</sup> and CD8<sup>+</sup> lymphocytes in WT and STAT1 Tg littermates are shown. LN cells from WT and STAT1 Tg mice were analyzed by flow cytometry for expression of (E) IL-7R $\alpha$  and (F) phosphorylated STAT1 after *in vitro* stimulation with rmIFN- $\alpha$ 4 (500 U/ml) or rmIFN- $\gamma$  (10 ng/ml) in CD4 and CD8 T cells. A nonparametric Mann-Whitney test was performed for comparisons between groups. Data from four independent experiments out of four, including an average of 4 mice per group, are presented as box and whisker plots showing the median value bounded by the first and third quartiles in the box, with whiskers extending to the minimum and maximum values.

**Figure S2. IL-7 induces a similar set of STAT1/IFN associated genes in WT and STAT1 Tg T cells.** Sorted WT and STAT1 Tg CD4 (n=5 and n=4 respectively) and CD8 (n=6 and n=5 respectively) naïve T cells were treated and analyzed as described in Figure 3. Venn diagrams illustrate (A) the overlap between WT and STAT1 Tg DEGs in response to IL-7 or IFN- $\gamma$  in CD4 and CD8 Naïve T cells; (B) the overlap between the DEGs in WT cells stimulated with IFN- $\gamma$  (green) and the DEGs in STAT1 Tg (red) T cells stimulated with IL-7.

**Figure S3. Overexpression of t-STAT1 leads to an enrichment of STAT1/IFN genes in T cells stimulated with IL-7.** Sorted WT (n= 3) and STAT1 Tg (n= 3) CD4 Naïve T cells were stimulated or not overnight with rmIL-7 (20 ng/ml) or rmIFN- $\gamma$  (10 ng/ml). RNA was isolated and gene expression was measured by RNA-seq. Libraries were prepared with 0.25-1  $\mu$ g of total RNA using the TruSeq RNA Sample Preparation Kit V2 and sequenced for 50 cycles with a HiSeq 2500 instrument (Illumina). 50 bp reads were then mapped onto mouse genome build mm9 using TopHat and further processed using Cufflinks (1). Lists of differentially expressed gene transcripts (DEGs) by IL-7 or IFN- $\gamma$  stimulation in WT and STAT1 Tg were selected based on gene expression changes of at least 2 fold compared to unstimulated cells. **(A)** Venn diagrams illustrate the overlap between WT (black) and STAT1 Tg (red) DEGs in response to IL-7 in CD4 Naïve T cells. **(B)** Venn diagrams illustrate the overlap between the DEGs in WT cells stimulated with IFN- $\gamma$  (green) and the DEGs in WT (black) or STAT1 Tg (red) T cells stimulated with IL-7. **(C)** Gene expression of *Bcl2*, *Cish*, *Cxcl10*, *Ifit1*, *Socs1*, *Bik*, *Ifi27* and *Socs2* was measured by quantitative RT-PCR (Quantitect SYBR green PCR system, Qiagen). The primer sequences are presented in Table S9. Gene expression values were normalized to those of *Hprt* in the same sample and fold changes were calculated relative to unstimulated condition for each mouse. Data represent mean  $\pm$  SE of the log<sub>2</sub> (Fold change) of triplicate samples in two independent experiments. A nonparametric Mann-Whitney test was performed for comparisons between WT (black symbols) and STAT1 Tg (red symbols) cells.

**Figure S4. STAT1 overexpression induces a distinct transcriptional program in CD4 T cells stimulated with IL-7.** Sorted WT and STAT1 Tg CD4 Naïve T cells were treated and analyzed as described in Figure 3 (90 minutes stimulation) or Figure S3 (overnight stimulation). Lists of

DEGs. their  $\log_2(\text{FC})$  and adjusted  $p$  values were generated for these cells and used as input in IPA software. A positive or negative z-score value indicates that a function is predicted to be increased or decreased in T cells stimulated with IL-7. All categories shown are significant ( $p < 0.05$ ). **(A)** Bar graphs show the overall affected categories of diseases and biological functions predicted by IPA analysis in WT (black) and STAT1 Tg (red) CD4 T cells stimulated 90 minutes with IL-7. Top 10 activated annotations and the number of RNAs (#Mol) differentially expressed in each are listed in the tables. **(B)** Bar graphs represent the top 10 diseases or functions annotations associated to Cell Death and Survival, Cellular Growth and Proliferation and Hematological System Development and Function categories predicted by IPA analysis in these conditions. **(C)** Bar graphs show the overall affected categories of diseases and biological functions predicted by IPA analysis in WT (black) and STAT1 Tg (red) CD4 T cells stimulated overnight with IL-7. Top 10 activated annotations and the number of RNAs (#Mol) differentially expressed in each are listed in the tables. **(D)** Bar graphs represent the top 10 diseases or functions annotations associated to Cell Death and Survival categories predicted by IPA analysis in these conditions.

**Figure S5. WT and STAT1 Tg donor T cells exhibit similar responses to IL-7 through STAT5 and to IFN- $\gamma$  through STAT1 after adoptive transfer into RAG<sup>-/-</sup> mice.** Lymphopenic RAG<sup>-/-</sup> mice were injected i.v. with  $6 \times 10^6$  of CTV-labeled T cells isolated from the LNs of congenic WT (n= 9) or STAT1 Tg (n= 9) mice. The levels of IL-7R $\alpha$ , p-STAT5 and p-STAT1 of donor T cells were evaluated by flow cytometry in LNs 7 days post-transfer as function of CTV Fluorescence after *in vitro* stimulation with rmIL-7 (1 ng/ml) and IFN- $\gamma$  (10 ng/ml) respectively. **(A)** The percentages of donor T cells CTV<sup>+</sup> IL-7R $\alpha$ <sup>high</sup>, CTV<sup>+</sup> IL-7R $\alpha$ <sup>low</sup>, CTV<sup>-</sup> IL-7R $\alpha$ <sup>high</sup> and CTV<sup>-</sup> IL-7R $\alpha$ <sup>low</sup> are indicated. The MFIs of IL-7R $\alpha$  in CD4 and CD8 donor T cells after adoptive

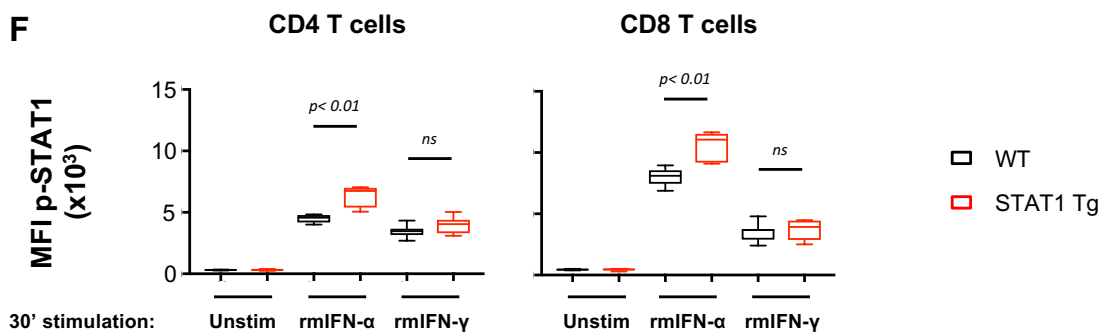
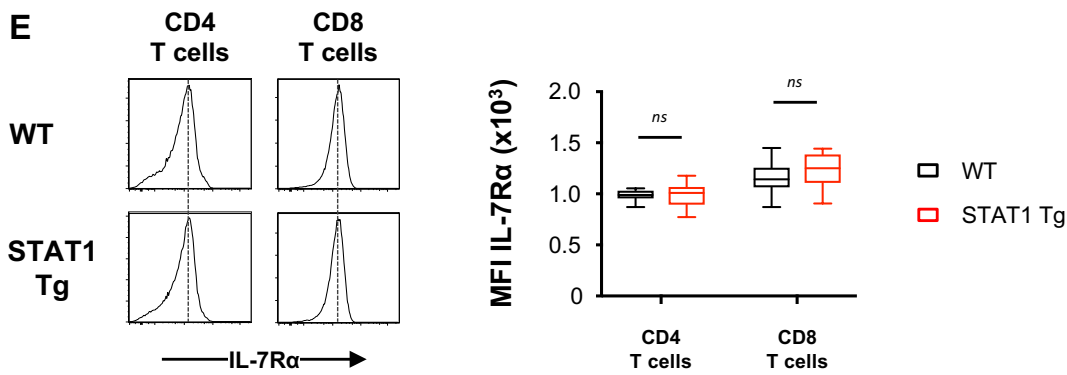
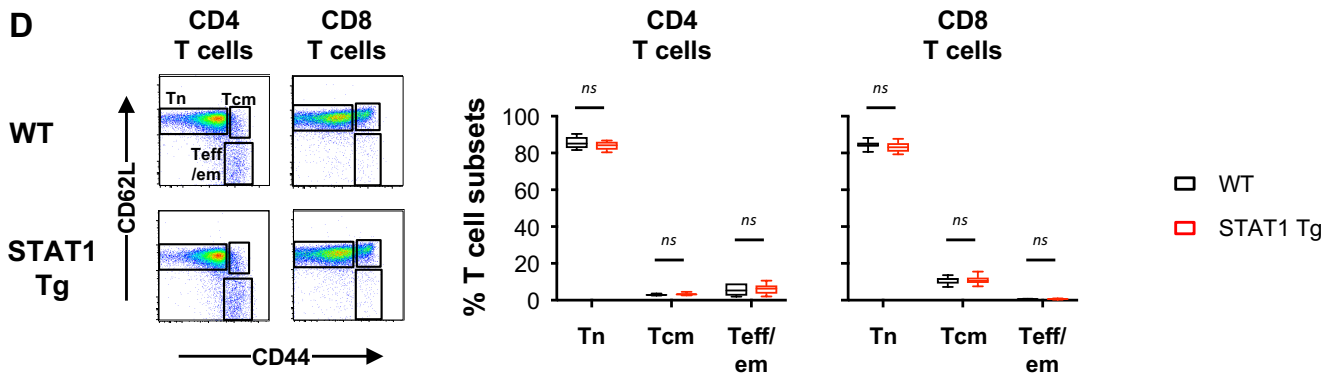
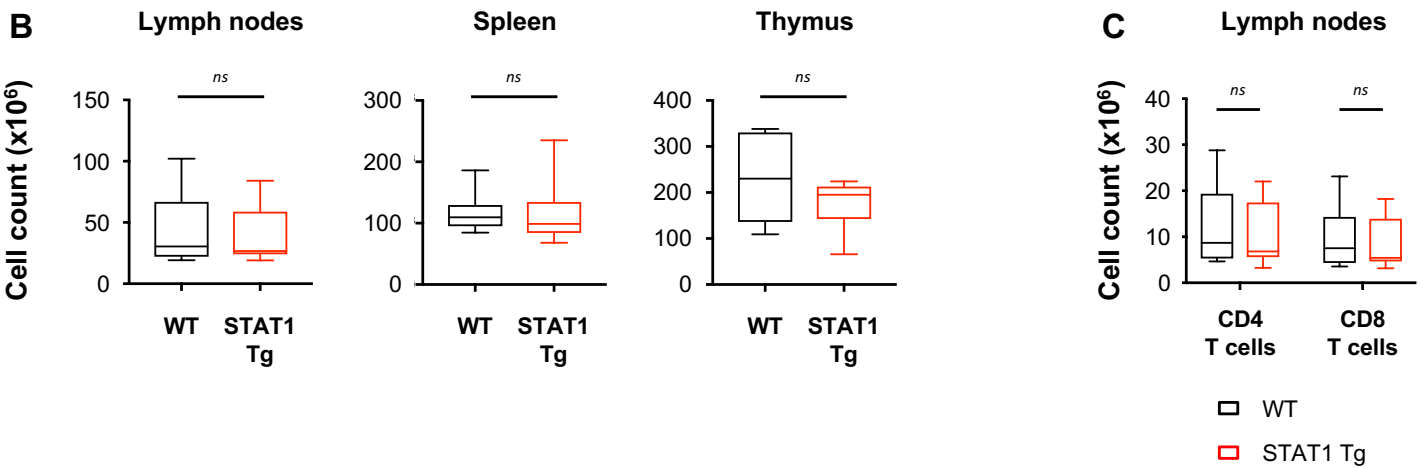
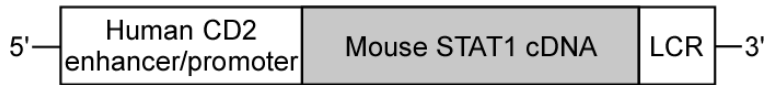
transfer into *RAG*<sup>-/-</sup> mice (SP and FP) were compared using a nonparametric Mann-Whitney test. **(B)** The percentages of donor T cells CTV<sup>+</sup> p-STAT5<sup>high</sup>, CTV<sup>+</sup> p-STAT5<sup>low</sup>, CTV<sup>-</sup> p-STAT5<sup>high</sup> and CTV<sup>-</sup> p-STAT5<sup>low</sup> are indicated. The MFIs of p-STAT5 in CD4 and CD8 donor T cells before (d0) and after adoptive transfer into *RAG*<sup>-/-</sup> mice (SP) were compared as described above. **(C)** The percentages of donor T cells CTV<sup>+</sup> p-STAT1<sup>high</sup>, CTV<sup>+</sup> p-STAT1<sup>low</sup>, CTV<sup>-</sup> p-STAT1<sup>high</sup> and CTV<sup>-</sup> p-STAT1<sup>low</sup> are indicated. The MFIs of p-STAT1 in CD4 and CD8 donor T cells before (d0) and after adoptive transfer into *RAG*<sup>-/-</sup> mice (SP) were compared as described above. Data are presented as box and whisker plots showing the median MFI value bounded by the first and third quartiles in the box, with whiskers extending to the minimum and maximum values from three independent experiments out of three, including an average of 3 mice per group and experiment.

#### Supplemental References

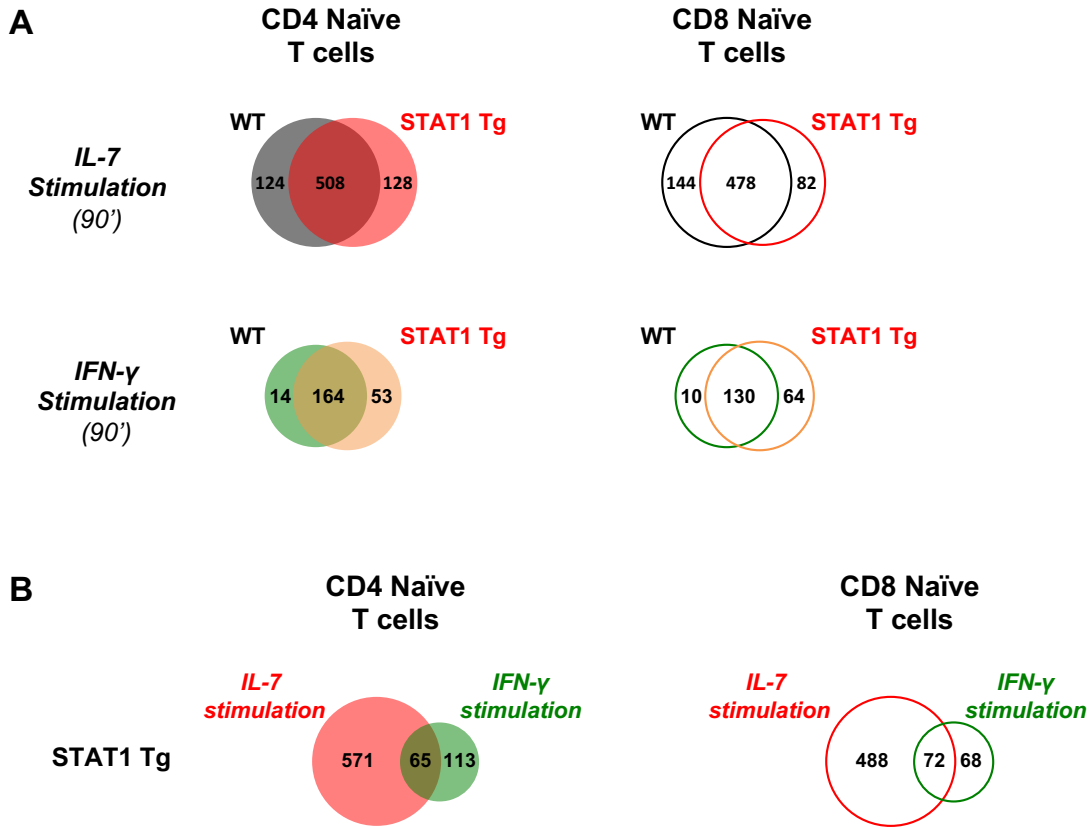
1. Villarino A, et al. Signal transducer and activator of transcription 5 (STAT5) paralog dose governs T cell effector and regulatory functions. *Elife*. 2016;5:e08384.

# Figure S1

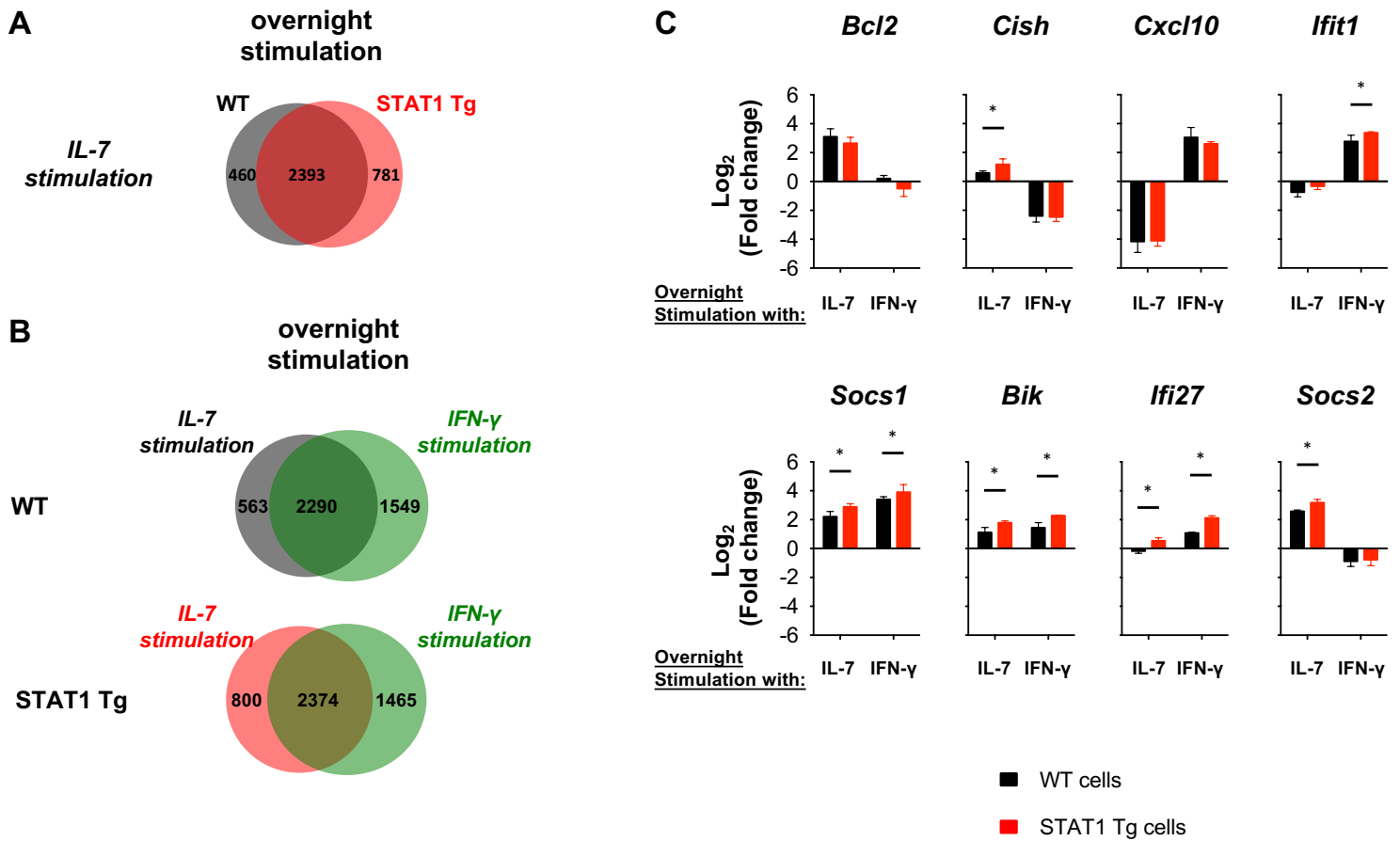
## A Human CD2 mini-cassette



# Figure S2

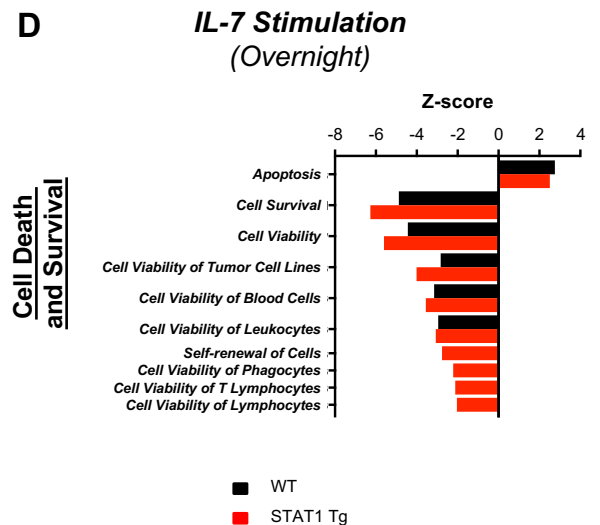
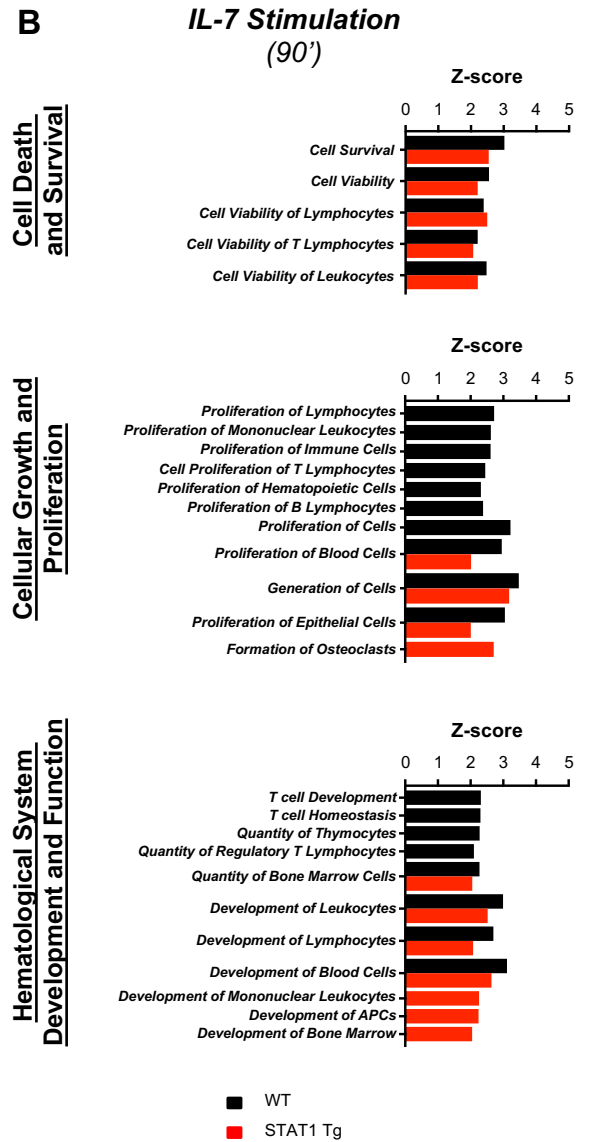
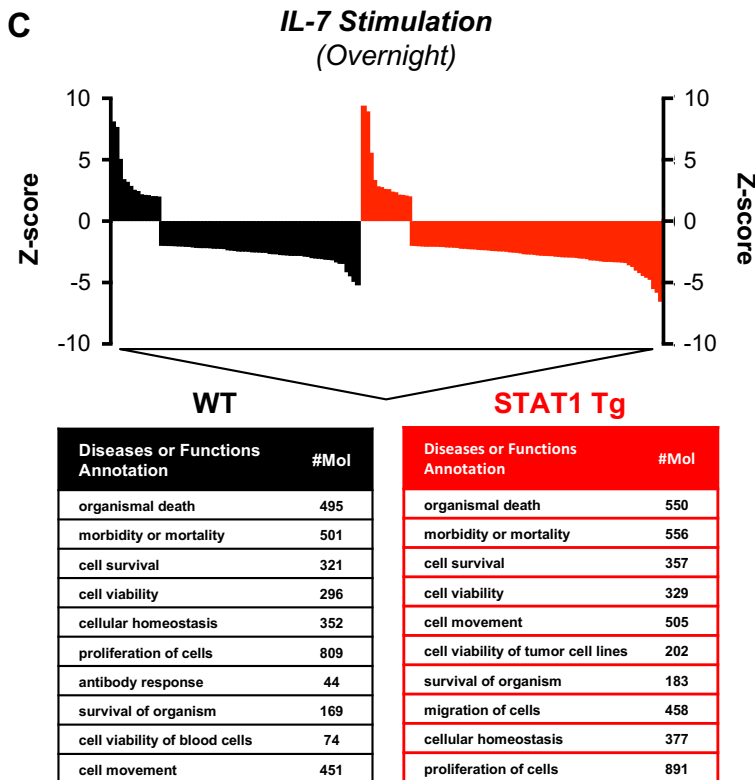
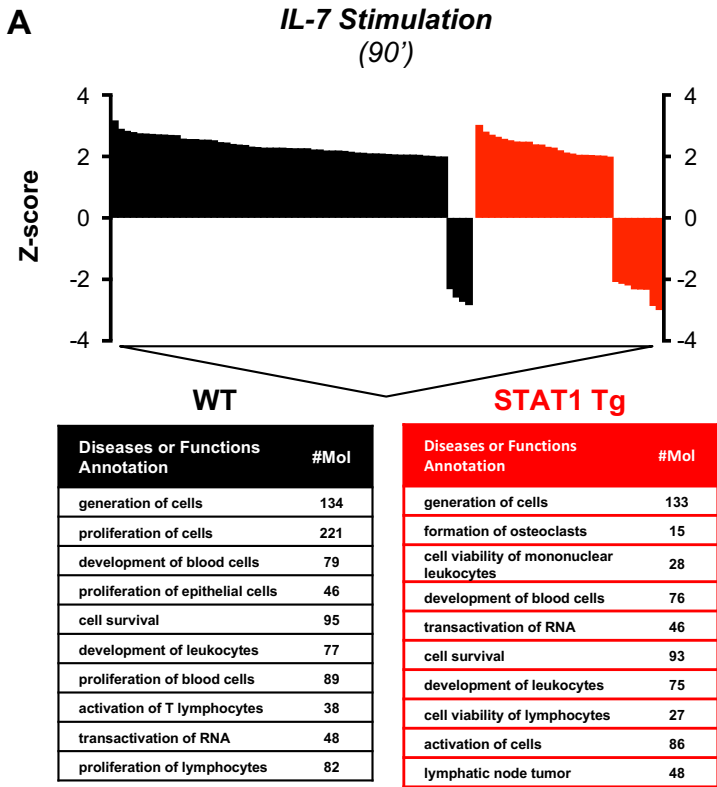


**Figure S3**

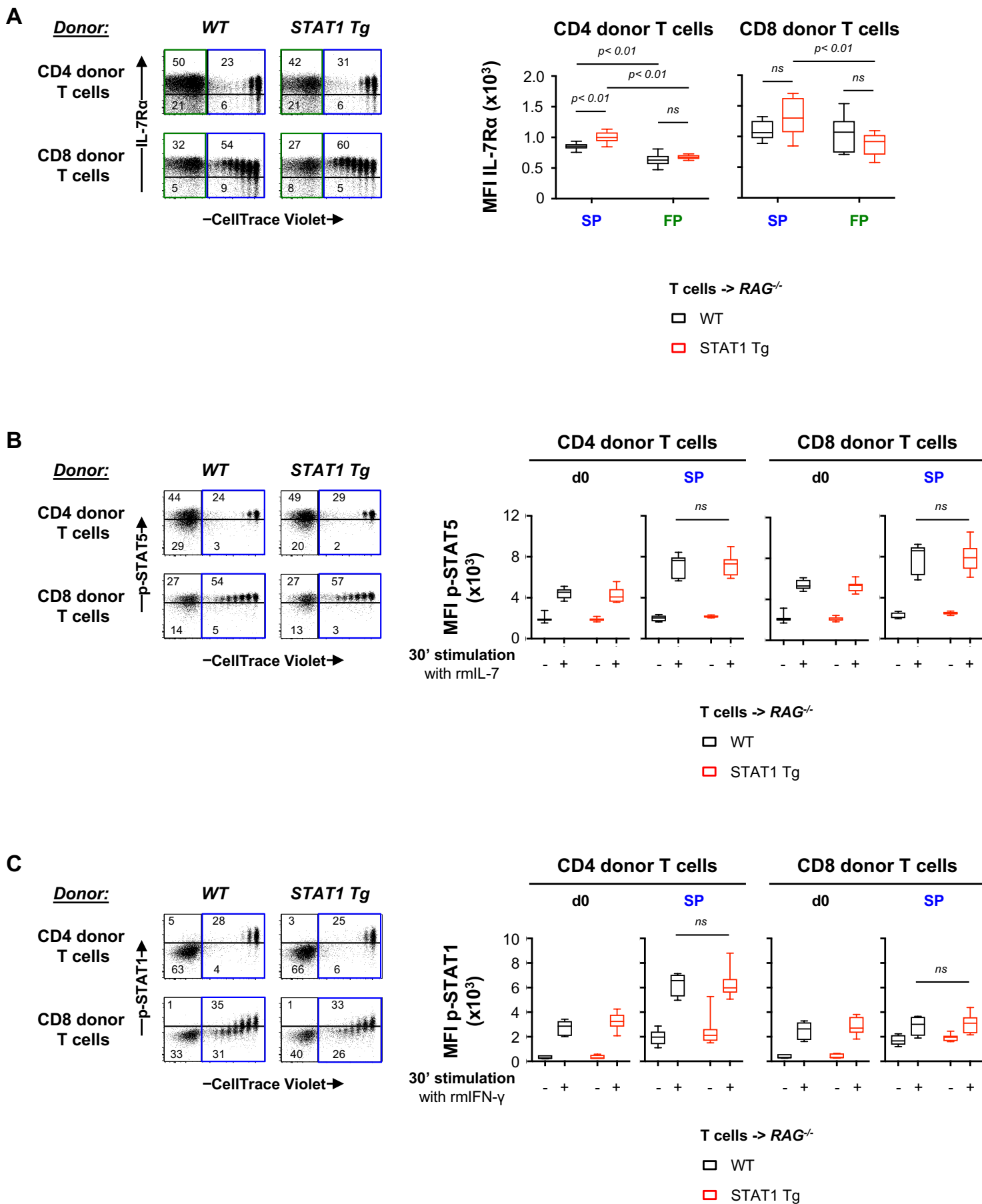




**Figure S4**



**Figure S5**



**Table S1. Overlapping DEGs by IL-7 and IFN- $\gamma$  stimulation in WT T cells (Extended**

*Table 2)*

Gene ID	IL-7 stimulation		IFN- $\gamma$ stimulation	
	Log <sub>2</sub> (FC) <sup>†</sup>	Adjusted <i>p</i> -value	Log <sub>2</sub> (FC)	Adjusted <i>p</i> -value
<b>CD4 Naive T cells</b>				
<i>5730508B09Rik</i>	1.66	9.59E-15	1.19	4.51E-10
<i>5830468F06Rik</i>	3.12	7.80E-24	3.09	4.00E-24
<i>9330175E14Rik</i>	2.16	1.18E-11	2.50	2.44E-13
<i>9530082P21Rik</i>	1.56	1.35E-03	1.38	2.01E-02
<i>Abcg3</i>	1.19	6.93E-04	1.78	3.32E-06
<i>Acvr1c</i>	5.24	3.09E-16	2.77	9.28E-08
<i>Arid5b</i>	1.83	3.36E-06	2.48	1.28E-08
<i>B430306N03Rik</i>	1.42	1.82E-08	1.49	1.91E-08
<i>Bcl3</i>	2.41	5.19E-11	2.88	5.54E-13
<i>Fas</i>	1.11	1.34E-06	1.38	3.90E-08
<i>Gadd45g</i>	3.82	1.37E-09	2.67	1.62E-05
<i>Gata1</i>	2.50	1.48E-06	3.94	5.46E-11
<i>Gbp10</i>	2.92	1.37E-06	6.65	3.01E-16
<i>Gbp11_1</i>	6.05	1.62E-19	4.94	2.28E-16
<i>Gbp4</i>	2.00	4.75E-09	4.22	4.81E-19
<i>Gbp5</i>	2.41	4.13E-11	4.82	4.24E-21
<i>Gbp6_1</i>	2.64	3.42E-05	5.48	2.24E-12
<i>Gbp6_2</i>	1.74	4.11E-04	5.16	3.90E-15
<i>Gm12185</i>	1.70	2.59E-10	3.92	2.24E-22
<i>Gm16174</i>	2.24	1.25E-03	2.01	1.64E-02
<i>Gm26876</i>	3.60	1.28E-09	1.55	1.77E-02
<i>Gm4951</i>	1.01	4.49E-02	3.81	1.37E-11
<i>Gpr155</i>	1.08	1.02E-04	1.41	3.16E-06
<i>Gvin1</i>	1.38	1.11E-03	3.11	3.27E-10
<i>Ifi47</i>	3.34	7.44E-11	4.79	1.69E-15
<i>Igtp</i>	2.64	2.03E-16	5.15	3.73E-27
<i>Iigp1</i>	2.68	1.89E-10	6.61	1.10E-23
<i>Il12rb2</i>	4.42	1.99E-06	2.51	2.71E-02
<i>Il18rap</i>	2.89	2.09E-11	2.61	8.02E-10
<i>Il2rb</i>	1.85	1.05E-14	1.43	4.81E-11
<i>Irf4</i>	2.25	2.76E-06	4.35	2.72E-13
<i>Irf9</i>	1.14	2.48E-11	2.53	4.12E-23
<i>Irgm2</i>	1.35	1.27E-08	4.33	4.57E-25
<i>Jun</i>	2.02	4.89E-10	2.34	1.99E-11

<i>Kat2b</i>	1.70	5.51E-17	1.00	1.34E-09
<i>Kit</i>	2.02	8.39E-07	2.22	3.81E-07
<i>Lrrtm2</i>	2.96	8.47E-06	1.92	1.60E-02
<i>Ly6a</i>	1.32	2.53E-03	3.66	4.50E-12
<i>Mgat4a</i>	1.08	4.65E-08	1.52	1.49E-11
<i>Ms4a6d</i>	3.66	4.21E-14	1.32	2.12E-03
<i>Nlrc5</i>	1.49	1.15E-05	1.97	1.23E-07
<i>Noc4l</i>	1.08	4.91E-10	1.39	8.82E-13
<i>Pim2</i>	3.03	9.26E-29	2.99	1.52E-28
<i>Pmepal</i>	1.85	9.31E-14	2.17	8.16E-16
<i>Pole2</i>	1.86	3.09E-16	1.18	8.64E-10
<i>Ppa1</i>	1.15	1.78E-04	1.85	6.60E-08
<i>Rbpms</i>	2.54	1.55E-07	1.48	5.98E-03
<i>Rgs1</i>	5.34	2.12E-15	1.33	3.98E-02
<i>Ripk1</i>	1.26	2.12E-15	1.44	3.02E-17
<i>Samhd1</i>	1.16	5.41E-07	1.93	2.41E-12
<i>Slamf1</i>	3.04	3.18E-20	1.85	9.77E-13
<i>Socs1</i>	2.47	2.93E-09	3.37	9.18E-13
<i>Socs3</i>	2.19	8.82E-23	1.60	5.03E-18
<i>Tgtp1</i>	4.27	1.11E-17	6.68	6.95E-25
<i>Tgtp2</i>	2.58	1.04E-16	5.37	1.79E-28
<i>Tnfrsf1b</i>	1.82	7.17E-17	1.08	1.60E-09
<i>Tnfsf8</i>	2.62	2.83E-14	1.39	2.00E-06
<i>Trem12</i>	1.29	4.19E-13	1.38	8.29E-14
<i>Zfp455</i>	1.29	2.01E-05	1.13	7.16E-04
<b>CD8 Naive T cells</b>				
<i>5830468F06Rik</i>	2.27	1.66E-19	2.45	3.73E-20
<i>9330175E14Rik</i>	1.94	9.44E-11	1.88	1.69E-09
<i>9530082P21Rik</i>	1.96	2.75E-05	1.33	3.16E-02
<i>Abcb11</i>	1.63	2.49E-05	1.73	9.17E-05
<i>B430306N03Rik</i>	2.11	1.29E-13	1.13	1.36E-05
<i>Bcl3</i>	3.12	7.66E-15	3.33	5.29E-15
<i>Csf1</i>	2.42	3.64E-06	4.35	1.61E-11
<i>Cyp2s1</i>	-1.25	9.56E-06	1.06	1.48E-03
<i>F2rl2</i>	2.03	5.14E-04	3.22	2.22E-06
<i>Fas</i>	1.00	4.93E-06	1.19	1.73E-06
<i>Gadd45g</i>	5.15	1.07E-13	2.74	1.27E-05
<i>Gata1</i>	3.12	5.10E-09	4.38	2.86E-12
<i>Gbp10</i>	3.19	1.04E-07	6.16	5.29E-15
<i>Gbp11_1</i>	5.25	9.02E-18	4.71	1.63E-15
<i>Gbp4</i>	1.75	4.88E-08	3.53	4.42E-16
<i>Gbp5</i>	1.67	1.55E-07	3.67	1.51E-16
<i>Gbp6_1</i>	2.88	3.60E-06	5.24	1.10E-11

<i>Gbp6_2</i>	1.82	1.07E-04	4.25	3.09E-12
<i>Gem</i>	2.49	3.02E-06	2.60	1.36E-05
<i>Gm12185</i>	2.45	1.66E-15	3.68	4.72E-21
<i>Gm16174</i>	2.19	8.69E-04	2.50	1.50E-03
<i>Gm26876</i>	3.78	1.51E-10	1.86	2.54E-03
<i>Gm4070</i>	1.52	8.60E-03	3.09	2.64E-06
<i>Gm4951</i>	1.27	4.65E-03	2.98	1.87E-08
<i>Gpr155</i>	1.38	5.96E-07	1.61	2.10E-07
<i>Gpr83</i>	3.88	1.27E-11	1.34	3.95E-02
<i>Gvin1</i>	1.95	2.89E-06	3.29	7.28E-11
<i>Gzmb</i>	3.01	4.27E-06	2.54	7.63E-04
<i>Ifi47</i>	3.61	3.08E-12	4.22	1.62E-13
<i>Igtp</i>	3.48	6.54E-21	5.14	8.05E-27
<i>Iigp1</i>	2.62	1.44E-10	6.19	3.57E-22
<i>Il12rb2</i>	3.37	1.06E-04	4.22	2.47E-05
<i>Il18rap</i>	1.82	6.75E-07	1.61	6.88E-05
<i>Irf4</i>	1.11	1.60E-02	2.91	4.18E-08
<i>Irf9</i>	1.25	6.63E-13	2.02	3.16E-19
<i>Irgm1</i>	1.75	6.21E-10	3.99	7.29E-21
<i>Irgm2</i>	1.95	2.03E-13	4.07	7.51E-24
<i>Jun</i>	3.65	2.39E-18	3.47	6.86E-17
<i>Kit</i>	1.71	9.58E-06	2.83	9.73E-10
<i>Lgals3bp</i>	1.13	1.86E-07	1.91	1.13E-12
<i>Lrrtm2</i>	1.75	5.53E-03	2.08	7.97E-03
<i>Ly6a</i>	1.93	4.98E-06	5.11	1.02E-16
<i>Map3k8</i>	4.32	6.10E-17	1.09	2.09E-02
<i>Mthfd2</i>	1.06	2.33E-08	1.57	3.60E-12
<i>Muc1</i>	1.18	4.77E-02	2.70	3.62E-05
<i>Nlrc5</i>	1.10	5.90E-04	1.40	1.86E-04
<i>Noc4l</i>	1.02	1.19E-09	1.13	6.04E-10
<i>Parp14</i>	1.00	1.01E-04	1.88	1.72E-09
<i>Pim2</i>	3.38	1.20E-31	2.99	1.56E-28
<i>Pole2</i>	1.44	4.48E-13	1.10	7.82E-09
<i>Ppa1</i>	1.79	2.05E-08	2.03	7.96E-09
<i>Rgs1</i>	4.81	1.95E-14	1.35	3.74E-02
<i>Ripk1</i>	1.00	9.67E-13	1.03	2.84E-12
<i>Rnf157</i>	1.10	1.29E-03	1.05	1.97E-02
<i>Rtp4</i>	1.52	4.59E-04	3.36	3.97E-10
<i>Samhd1</i>	1.10	7.32E-07	1.91	4.24E-12
<i>Sema4a</i>	1.22	7.31E-08	1.03	2.67E-05
<i>Serpina3g</i>	3.40	1.43E-06	4.75	5.86E-09
<i>Slamf1</i>	2.94	3.95E-20	1.72	1.21E-11
<i>Socs3</i>	1.99	1.17E-21	1.37	1.79E-15

<i>Stat2</i>	1.03	4.53E-06	1.71	2.43E-10
<i>Syt6</i>	4.50	8.62E-11	1.93	1.05E-02
<i>Tgtp1</i>	3.77	2.66E-16	5.38	3.50E-21
<i>Tgtp2</i>	2.59	3.55E-17	4.59	1.05E-25
<i>Tnfsf8</i>	2.27	8.19E-13	1.30	1.03E-05
<i>Trem12</i>	1.43	4.84E-15	1.16	2.26E-11

Lists of DEGs, their  $\log_2(\text{FC})$  and adjusted  $p$  values generated for each condition were compared using Venn diagrams to obtain the list of overlapping genes between IL-7 and IFN- $\gamma$  stimulation in WT T cells. \* Fold changes (FC) were calculated relative to unstimulated condition for each sample.

**Table S2. Top 15 IPA-predicted activated upstream regulators in WT T cells stimulated for 90 minutes with IFN- $\gamma$**

Upstream Regulator	Activation Z-score <sup>o</sup>	p-value of overlap <sup>*</sup>
<b>CD4 Naive T cells</b>		
IFNG	8.250	1.13E-54
IRF7	6.104	1.55E-50
IFNA2	5.800	3.85E-40
TNF	5.743	6.58E-21
STAT1	5.646	6.36E-43
IL-1B	5.376	2.55E-21
IFNB1	5.161	1.49E-44
IL-21	5.134	6.24E-36
IRF3	5.061	7.82E-30
IRF1	4.499	8.41E-25
IL-6	4.450	2.89E-18
IFNL1	4.101	5.58E-22
OSM	4.088	1.14E-08
IRF5	3.923	8.05E-21
NFATC2	3.876	2.33E-22
<b>CD8 Naive T cells</b>		
IFNG	7.853	7.08E-52
IRF7	5.617	2.13E-45
IFNA2	5.371	4.50E-34
STAT1	5.271	1.07E-40
IFNB1	5.140	3.74E-39
IL-1B	5.041	5.14E-24
IRF3	4.675	3.72E-26
IL-21	4.640	9.34E-31
TNF	4.513	5.98E-17
IRF1	4.166	2.08E-22
IL-6	3.807	2.72E-20
OSM	3.715	3.11E-10
PRL	3.621	7.72E-19
NFATC2	3.615	2.40E-21
IRF5	3.530	3.99E-17

Lists of differentially expressed gene transcripts (DEGs), their  $\log_2(\text{FC})$  and adjusted  $p$  values were generated for each condition and used as input in IPA software. <sup>o</sup>Activation  $Z$ -score are based on a model that assigns random regulation directions for predicted upstream regulators.  $Z > 2$  predicts activation of the upstream regulator. <sup>\*</sup>The  $p$ -value of overlap was used to rank the significance associated for each Upstream Regulator. The  $p$ -value indicates the significance of the overlap between the genes targeted by the upstream regulator in the database and the experimental dataset.



**Table S3.** Target genes predicted by IPA with IFNG as activated upstream regulator in WT stimulated for 90 minutes with IL-7 or IFN- $\gamma$

Gene ID	IL-7 stimulation		IFN- $\gamma$ stimulation	
	Log <sub>2</sub> (FC) <sup>+</sup>	Adjusted <i>p</i> -value	Log <sub>2</sub> (FC)	Adjusted <i>p</i> -value
<b>CD4 Naive T cells</b>				
<i>Bcl3</i>	2.41	5.19E-11	2.88	5.54E-13
<i>Fas</i>	1.11	1.34E-06	1.38	3.90E-08
<i>Gbp5</i>	2.41	4.13E-11	4.82	4.24E-21
<i>Gbp10</i>	2.92	1.37E-06	6.65	3.01E-16
<i>Gvin1</i>	1.38	1.11E-03	3.11	3.27E-10
<i>Ifi47</i>	3.34	7.44E-11	4.79	1.69E-15
<i>Igtp</i>	2.64	2.03E-16	5.15	3.73E-27
<i>Iigp1</i>	2.68	1.89E-10	6.61	1.10E-23
<i>Il12rb2</i>	4.42	1.99E-06	2.51	2.71E-02
<i>Il18rap</i>	2.89	2.09E-11	2.61	8.02E-10
<i>Irf4</i>	2.25	2.76E-06	4.35	2.72E-13
<i>Irf9</i>	1.14	2.48E-11	2.53	4.12E-23
<i>Irgm2</i>	1.35	1.27E-08	4.33	4.57E-25
<i>Jun</i>	2.02	4.89E-10	2.34	1.99E-11
<i>Ly6a</i>	1.32	2.53E-03	3.66	4.50E-12
<i>Nlrc5</i>	1.49	1.15E-05	1.97	1.23E-07
<i>Pim2</i>	3.03	9.26E-29	2.99	1.52E-28
<i>Ripk1</i>	1.26	2.12E-15	1.44	3.02E-17
<i>Samhd1</i>	1.16	5.41E-07	1.93	2.41E-12
<i>Slamf1</i>	3.04	3.18E-20	1.85	9.77E-13
<i>Socs1</i>	2.47	2.93E-09	3.37	9.18E-13
<i>Socs3</i>	2.19	8.82E-23	1.60	5.03E-18
<i>Tgtp1</i>	4.27	1.11E-17	6.68	6.95E-25
<i>Tnfrsf1b</i>	1.82	7.17E-17	1.08	1.60E-09
<b>CD8 Naive T cells</b>				
<i>Bcl3</i>	3.12	7.66E-15	3.33	5.29E-15
<i>Csf1</i>	2.42	3.64E-06	4.35	1.61E-11
<i>Fas</i>	1.00	4.93E-06	1.19	1.73E-06
<i>Gbp5</i>	1.67	1.55E-07	3.67	1.51E-16
<i>Gbp10</i>	3.19	1.04E-07	6.16	5.29E-15
<i>Gpr83</i>	3.88	1.27E-11	1.34	3.95E-02
<i>Gvin1</i>	1.95	2.89E-06	3.29	7.28E-11
<i>Ifi47</i>	3.61	3.08E-12	4.22	1.62E-13

<i>Igtp</i>	3.48	6.54E-21	5.14	8.05E-27
<i>Iigp1</i>	2.62	1.44E-10	6.19	3.57E-22
<i>Il12rb2</i>	3.37	1.06E-04	4.22	2.47E-05
<i>Il18rap</i>	1.82	6.75E-07	1.61	6.88E-05
<i>Irf4</i>	1.11	1.60E-02	2.91	4.18E-08
<i>Irf9</i>	1.25	6.63E-13	2.02	3.16E-19
<i>Irgm2</i>	1.95	2.03E-13	4.07	7.51E-24
<i>Irgm1</i>	1.76	6.21E-10	4.00	7.29E-21
<i>Jun</i>	3.65	2.39E-18	3.47	6.86E-17
<i>Lgals3bp</i>	1.13	1.86E-07	1.91	1.13E-12
<i>Ly6a</i>	1.93	4.98E-06	5.11	1.02E-16
<i>Map3k8</i>	4.32	6.10E-17	1.09	2.09E-02
<i>Nlrc5</i>	1.10	5.90E-04	1.40	1.86E-04
<i>Pim2</i>	3.38	1.20E-31	2.99	1.56E-28
<i>Ripk1</i>	1.00	9.67E-13	1.03	2.84E-12
<i>Rtp4</i>	1.52	4.59E-04	3.36	3.97E-10
<i>Samhd1</i>	1.10	7.32E-07	1.91	4.24E-12
<i>Sema4a</i>	1.22	7.31E-08	1.03	2.67E-05
<i>Serpina3g</i>	3.40	1.43E-06	4.75	5.86E-09
<i>Slamf1</i>	2.94	3.95E-20	1.72	1.21E-11
<i>Socs3</i>	1.99	1.17E-21	1.37	1.79E-15
<i>Stat2</i>	1.03	4.53E-06	1.72	2.43E-10
<i>Tgtp1</i>	3.77	2.66E-16	5.38	3.50E-21

Lists of DEGs, their  $\log_2(\text{FC})$  and adjusted  $p$ -values generated for each condition were used as input in IPA software to obtain a list of predicted upstream regulators (Figure 4A and Table S2) and their target genes among the DEGs. \* Fold changes (FC) were calculated relative to unstimulated condition for each sample.

**Table S4.** Target genes predicted by IPA with STAT1 as activated upstream regulator in WT T cells stimulated for 90 minutes with IL-7 or IFN- $\gamma$

Gene ID	IL-7 stimulation		IFN- $\gamma$ stimulation	
	Log <sub>2</sub> (FC)	Adjusted <i>p</i> -value	Log <sub>2</sub> (FC)	Adjusted <i>p</i> -value
<b>CD4 Naive T cells</b>				
<i>Fas</i>	1.11	1.34E-06	1.38	3.90E-08
<i>Gbp5</i>	2.41	4.13E-11	4.82	4.24E-21
<i>Gbp10</i>	2.92	1.37E-06	6.65	3.01E-16
<i>Ifi47</i>	3.34	7.44E-11	4.79	1.69E-15
<i>Igtp</i>	2.64	2.03E-16	5.15	3.73E-27
<i>Il12rb2</i>	4.42	1.99E-06	2.51	2.71E-02
<i>Irf9</i>	1.14	2.48E-11	2.53	4.12E-23
<i>Jun</i>	2.02	4.89E-10	2.34	1.99E-11
<i>Samhd1</i>	1.16	5.41E-07	1.93	2.41E-12
<i>Socs1</i>	2.47	2.93E-09	3.37	9.18E-13
<i>Socs3</i>	2.19	8.82E-23	1.60	5.03E-18
<i>Tgtp1</i>	4.27	1.11E-17	6.68	6.95E-25
<b>CD8 Naive T cells</b>				
<i>Fas</i>	1.00	4.93E-06	1.19	1.73E-06
<i>Gbp5</i>	1.67	1.55E-07	3.67	1.51E-16
<i>Gbp10</i>	3.19	1.04E-07	6.16	5.29E-15
<i>Gzmb</i>	3.01	4.27E-06	2.54	7.63E-04
<i>Ifi47</i>	3.61	3.08E-12	4.22	1.62E-13
<i>Igtp</i>	3.48	6.54E-21	5.14	8.05E-27
<i>Il12rb2</i>	3.37	1.06E-04	4.22	2.47E-05
<i>Irf9</i>	1.25	6.63E-13	2.02	3.16E-19
<i>Irgm1</i>	1.76	6.21E-10	4.00	7.29E-21
<i>Jun</i>	3.65	2.39E-18	3.47	6.86E-17
<i>Samhd1</i>	1.10	7.32E-07	1.91	4.24E-12
<i>Serpina3g</i>	3.40	1.43E-06	4.75	5.86E-09
<i>Socs3</i>	1.99	1.17E-21	1.37	1.79E-15
<i>Stat2</i>	1.03	4.53E-06	1.72	2.43E-10
<i>Tgtp1</i>	3.77	2.66E-16	5.38	3.50E-21

Lists of DEGs, their log<sub>2</sub>(FC) and adjusted *p*-values generated for each condition were used as input in IPA software to obtain a list of predicted upstream regulators (Figure 4A and

Table S2) and their target genes among the DEGs. \* Fold changes (FC) were calculated relative to unstimulated condition for each sample.

**Table S5.** Top 15 IPA-predicted activated upstream regulators in STAT1 Tg T cells stimulated for 90 minutes with IL-7

Upstream Regulator	Activation Z-score <sup>o</sup>	p-value of overlap <sup>★</sup>
<b>CD4 Naive T cells</b>		
IL-2	4.220	7.93E-32
IRF7	4.101	7.54E-08
IFNG	4.008	2.36E-27
IL-4	3.920	4.06E-34
IL-5	3.638	1.07E-20
CSF2	3.551	3.05E-18
STAT1	3.481	1.37E-14
IL-15	3.388	2.38E-17
EPO	3.377	2.24E-08
STAT5B	3.363	1.87E-13
IL-18	3.298	2.03E-07
STAT4	3.292	1.14E-14
IL-7	3.226	8.91E-21
IL-3	3.221	1.91E-13
IFNA2	2.990	1.21E-10
<b>CD8 Naive T cells</b>		
IFNG	5.577	1.58E-29
IL-2	5.368	1.62E-34
STAT1	5.042	5.64E-18
IRF7	4.620	5.34E-13
IL-1B	4.327	4.42E-19
STAT4	4.149	3.35E-16
IL-5	4.041	3.63E-19
IL-3	4.029	1.29E-13
PRL	3.925	1.28E-14
IL-15	3.867	1.90E-19
IFNA2	3.809	2.22E-14
IL-13	3.703	1.75E-05
IL-18	3.700	4.95E-09
IL-7	3.622	9.08E-25
IL-21	3.587	3.35E-18

Lists of differentially expressed gene transcripts (DEGs), their  $\log_2(\text{FC})$  and adjusted  $p$  values were generated for each condition and used as input in IPA software.  $\circ$ Activation  $Z$ -score are based on a model that assigns random regulation directions for predicted upstream regulators.  $Z > 2$  predicts activation of the upstream regulator.  $\star$ The  $p$ -value of overlap was used to rank the significance associated for each Upstream Regulator. The  $p$ -value indicates the significance of the overlap between the genes targeted by the upstream regulator in the database and the experimental dataset.

**Table S6.** Top 10 DAVID-predicted enriched Biological processes within DEGs unique to CD4 or CD8 Naive T cells stimulated for 90 minutes with IL-7

WT cells stimulated with IL-7			STAT1 Tg cells stimulated with IL-7		
Description	Gene counts	<i>p</i> -value*	Description	Gene counts	<i>p</i> -value
<b>CD4 Naive T cells</b>					
Regulation of programmed cell death	16	1.46E-04	Regulation of programmed cell death	14	5.82E-03
Regulation of cell death	16	1.55E-04	Regulation of cell death	14	6.08E-03
Death	15	2.29E-04	Death	16	3.45E-04
Regulation of apoptosis	15	4.35E-04	Regulation of apoptosis	14	5.25E-03
Apoptosis	14	2.75E-04	Apoptosis	15	3.64E-04
Programmed cell death	14	3.24E-04	Programmed cell death	15	4.32E-04
Cell death	14	6.24E-04	Cell death	15	8.55E-04
Positive regulation of macromolecule metabolic process	12	2.70E-02	Phosphate metabolic process	17	1.87E-02
Intracellular signaling cascade	16	1.70E-02	Phosphorus metabolic process	17	1.87E-02
Regulation of cell proliferation	11	2.29E-02	Cell cycle	14	1.16E-02
<b>CD8 Naive T cells</b>					
Hemopoietic or lymphoid organ development	8	1.84E-02	Hemopoietic or lymphoid organ development	7	1.83E-02
Immune system development	8	2.33E-02	Immune system development	7	2.27E-02

<b>Immune response</b>	14	5.76E-04	<b>Homeostatic process</b>	11	1.15E-02
<b>Regulation of small GTPase mediated signal transduction</b>	7	2.23E-02	<b>Regulation of hydrolase activity</b>	6	1.54E-02
<b>Regulation of Ras protein signal transduction</b>	6	3.00E-02	<b>Hemopoiesis</b>	6	3.92E-02
<b>Gland development</b>	6	4.08E-02	<b>Small GTPase mediated signal transduction</b>	6	4.33E-02
<b>Tissue homeostasis</b>	5	1.31E-03	<b>Regulation of GTPase activity</b>	5	5.06E-03
<b>Multicellular organismal homeostasis</b>	5	4.74E-03	<b>Homeostasis of number of cells</b>	5	9.98E-03
<b>Anatomical structure homeostasis</b>	5	8.21E-03	<b>Regulation of cytokine production</b>	5	2.00E-02
<b>Lymph node development</b>	4	7.41E-04	<b>Regulation of cytokine secretion</b>	4	1.70E-04

Gene Ontology (GO) term enrichment analysis was performed using Database for Annotation, Visualization and Integrated Discovery (DAVID) Bioinformatics Resources 6.7 (<https://david.ncifcrf.gov/>) to assess the top biological processes associated with the lists of DEGs by IL-7 in WT and STAT1 Tg T cells. Lists of DEGs, their  $\log_2(\text{FC})$  and adjusted  $p$  values generated for WT and STAT1 Tg T cells stimulated for 90 minutes with rmIL-7 were used as input in DAVID website. \*Gene counts indicate the number of enriched DEGs in the pathway. \*The  $p$ -value indicates the perturbation of each pathway.



**Table S7. Overlapping DEGs by IL-7 and IFN- $\gamma$  overnight stimulation in WT and STAT1 Tg CD4 Naïve T cells**

Gene ID	WT cells stimulated with IL-7		STAT1 Tg cells stimulated with IL-7		WT cells stimulated with IFN- $\gamma$	
	Log <sub>2</sub> (FC) <sup>+</sup>	Adjusted <i>p</i> -value	Log <sub>2</sub> (FC)	Adjusted <i>p</i> -value	Log <sub>2</sub> (FC)	Adjusted <i>p</i> -value
<b>CD4 Naïve T cells</b>						
<i>0610009L18Rik</i>	1.44	1.16E-04	1.49	2.26E-04	1.28	2.61E-04
<i>0610038B21Rik</i>	1.25	1.94E-03	1.16	6.74E-03	1.20	2.45E-03
<i>1110002L01Rik</i>	1.77	1.36E-06	2.18	6.73E-07	2.16	1.81E-07
<i>1110032F04Rik</i>	-1.69	2.90E-07	-1.82	4.53E-07	-1.30	2.04E-06
<i>1190007I07Rik</i>	1.13	3.94E-04	1.61	5.96E-05	1.37	7.55E-05
<i>1300002E11Rik</i>	1.21	2.44E-07	1.33	3.13E-07	1.53	2.38E-08
<i>1700001K19Rik</i>	-1.25	2.15E-02	-1.71	6.99E-03	-1.86	1.69E-03
<i>1700010I14Rik</i>	1.24	3.34E-04	1.07	2.23E-03	1.55	4.67E-05
<i>1700019B03Rik</i>	-2.97	7.71E-04	-4.03	1.80E-04	-4.67	1.71E-05
<i>1700021A07Rik</i>	1.55	3.66E-03	1.29	2.15E-02	1.68	1.99E-03
<i>1700025G04Rik</i>	1.40	2.82E-09	1.58	3.71E-09	1.05	6.06E-09
<i>1700029H14Rik</i>	-1.52	2.15E-03	-2.04	5.97E-04	-2.00	2.54E-04
<i>1700030C12Rik</i>	-1.76	3.22E-02	-1.79	4.91E-02	-2.22	8.39E-03
<i>1700030J22Rik</i>	-1.31	1.32E-02	-1.21	3.52E-02	-1.19	2.03E-02
<i>1700030K09Rik</i>	1.84	4.60E-06	1.45	9.19E-05	2.23	6.73E-07
<i>1700052N19Rik</i>	1.61	7.81E-10	1.76	1.11E-09	1.89	5.00E-11
<i>1700066B19Rik</i>	2.20	2.40E-03	1.84	1.45E-02	2.69	4.98E-04
<i>1700067K01Rik</i>	1.66	4.76E-03	1.72	7.78E-03	1.88	1.87E-03
<i>1810009A15Rik</i>	1.98	6.88E-03	1.64	3.48E-02	2.21	3.06E-03
<i>1810014B01Rik</i>	1.33	4.55E-06	1.32	1.34E-05	1.74	3.56E-07
<i>1810034E14Rik</i>	2.05	2.09E-04	2.34	1.85E-04	3.02	6.78E-06
<i>1810041H14Rik</i>	-1.66	3.64E-04	-2.34	6.06E-05	-1.80	1.72E-04
<i>1810049J17Rik</i>	-1.22	3.81E-03	-1.31	5.14E-03	-1.33	1.96E-03
<i>1810055G02Rik</i>	-1.46	6.57E-07	-1.73	4.45E-07	-2.48	7.07E-09
<i>1810062O18Rik</i>	1.29	1.15E-03	1.59	5.56E-04	1.18	1.95E-03
<i>2010016I18Rik</i>	2.38	1.52E-08	2.61	2.07E-08	2.95	1.48E-09
<i>2010300C02Rik</i>	-1.01	3.25E-02	-1.40	1.03E-02	-1.25	9.83E-03
<i>2010315B03Rik</i>	1.58	1.52E-06	1.60	3.71E-06	2.11	9.88E-08

2310002F09Rik	2.87	8.25E-04	2.05	1.54E-02	2.89	7.04E-04
2310009A05Rik	1.39	2.41E-05	1.36	7.44E-05	1.79	2.18E-06
2310026I22Rik	-1.83	2.49E-02	-2.19	1.79E-02	-2.44	4.45E-03
2310031A07Rik	-1.61	8.93E-04	-2.35	1.12E-04	-1.10	9.88E-03
2310033P09Rik	-1.14	6.86E-09	-1.40	5.61E-09	-1.31	1.00E-09
2410007B07Rik	1.49	5.36E-04	1.90	2.03E-04	1.74	1.39E-04
2500004C02Rik	1.16	4.53E-04	1.23	6.61E-04	1.53	4.10E-05
2510009E07Rik	0.60	8.43E-04	1.09	1.75E-05	1.04	7.93E-06
2610005L07Rik	-1.07	4.43E-06	-1.42	1.18E-06	-1.00	6.43E-06
2610015P09Rik	0.81	1.39E-04	1.07	3.63E-05	1.31	1.97E-06
2610035D17Rik	1.32	7.06E-05	1.36	1.49E-04	1.93	2.34E-06
2610318N02Rik	-1.08	1.03E-03	-1.55	1.55E-04	-1.71	2.19E-05
2610507I01Rik	1.36	8.43E-07	1.30	3.38E-06	1.52	2.37E-07
2700068H02Rik	1.73	1.71E-02	2.33	5.79E-03	1.47	3.59E-02
2700081O15Rik	-0.92	9.31E-04	-1.25	2.10E-04	-1.23	8.08E-05
2700099C18Rik	-2.29	1.11E-05	-2.76	6.28E-06	-2.12	1.78E-05
2810002D19Rik	1.50	2.74E-05	1.69	2.58E-05	1.68	8.35E-06
2810006K23Rik	1.13	5.53E-05	1.73	4.00E-06	1.65	1.72E-06
2810039B14Rik	1.68	1.26E-05	1.44	1.16E-04	1.51	2.54E-05
2810410L24Rik	2.03	1.01E-04	2.05	2.32E-04	1.85	1.87E-04
2810414N06Rik	2.18	1.47E-04	2.72	6.10E-05	2.42	5.27E-05
2810429I04Rik	-2.03	1.45E-03	-2.67	4.45E-04	-2.97	6.70E-05
2900005J15Rik	1.78	5.69E-06	1.63	3.15E-05	1.65	8.55E-06
2900079G21Rik	-1.93	1.12E-02	-1.91	2.16E-02	-2.73	1.05E-03
3110001I22Rik	-2.92	1.60E-03	-2.76	5.10E-03	-2.70	2.55E-03
3110007F17Rik	1.58	3.12E-04	1.06	1.06E-02	1.64	2.01E-04
3110009E18Rik	1.83	1.02E-04	1.60	7.40E-04	2.07	3.18E-05
3110043O21Rik	-2.31	5.23E-07	-2.90	2.39E-07	-2.93	5.09E-08
3110052M02Rik	1.23	9.06E-07	1.23	2.48E-06	1.45	1.63E-07
3110062M04Rik	1.48	4.89E-06	2.03	9.96E-07	2.04	2.48E-07
3632454L22Rik	2.43	3.36E-06	2.32	1.34E-05	3.21	2.33E-07
3830406C13Rik	0.62	1.59E-04	1.02	6.30E-06	1.14	7.04E-07
3830408C21Rik	1.84	7.13E-04	1.80	1.93E-03	2.67	3.06E-05
4632404H12Rik	1.21	1.96E-07	1.59	7.53E-08	1.31	6.68E-08
4831440E17Rik	1.46	5.72E-04	1.21	4.82E-03	1.96	4.56E-05
4833422C13Rik	1.25	2.76E-05	1.10	2.07E-04	2.77	2.67E-08
4930412L05Rik	-1.59	8.53E-03	-2.09	3.13E-03	-1.53	9.88E-03
4930422M22Rik	2.04	2.82E-03	2.77	7.18E-04	2.31	1.07E-03

4930427A07Rik	-2.02	6.00E-05	-2.43	3.43E-05	-1.98	5.95E-05
4930430F08Rik	1.77	2.16E-06	1.51	2.23E-05	2.10	3.79E-07
4930453N24Rik	1.56	2.26E-09	1.74	3.36E-09	1.59	5.16E-10
4930458D05Rik	-1.41	3.24E-02	-2.28	4.12E-03	-1.49	2.33E-02
4930469K13Rik	1.78	1.92E-03	1.64	7.03E-03	1.92	1.02E-03
4930473A02Rik	0.60	3.18E-02	1.26	6.33E-04	1.04	1.02E-03
4930486L24Rik	-1.54	3.82E-03	-1.79	3.00E-03	-1.35	7.87E-03
4930502E09Rik	1.63	4.14E-02	2.35	1.14E-02	2.30	6.14E-03
4930509E16Rik	2.95	9.74E-04	2.16	1.53E-02	2.74	1.52E-03
4930512H18Rik	1.64	2.72E-03	2.34	4.60E-04	2.75	4.38E-05
4930516B21Rik	3.38	1.27E-05	2.06	1.60E-03	3.61	5.90E-06
4930526L06Rik	1.44	2.42E-02	2.35	2.56E-03	2.10	2.30E-03
4930539E08Rik	1.41	1.53E-03	1.35	4.46E-03	1.45	1.11E-03
4930579G24Rik	-1.21	4.91E-05	-1.44	2.90E-05	-1.25	2.98E-05
4930581F22Rik	1.89	4.46E-08	1.93	9.43E-08	1.96	1.75E-08
4930594M22Rik	2.24	2.90E-03	1.80	2.10E-02	1.71	1.37E-02
4931406C07Rik	0.90	3.64E-05	1.33	3.80E-06	1.14	3.98E-06
4931414P19Rik	0.94	2.56E-04	1.67	5.58E-06	1.81	7.74E-07
4933404O12Rik	1.90	4.36E-08	2.12	5.25E-08	1.88	2.51E-08
4933408B17Rik	2.74	7.46E-05	2.78	1.68E-04	3.37	1.10E-05
4933408J17Rik	-2.28	7.45E-03	-1.95	3.20E-02	-2.76	1.92E-03
4933427D14Rik	1.06	1.15E-07	1.40	4.51E-08	1.32	1.29E-08
4933439C10Rik	1.20	1.65E-03	0.99	1.21E-02	1.00	5.14E-03
4933439K11Rik	1.83	1.60E-02	1.97	1.95E-02	1.89	1.23E-02
5330426P16Rik	1.40	9.67E-08	1.60	9.78E-08	1.54	2.75E-08
5430403G16Rik	1.48	1.83E-07	1.31	1.28E-06	1.71	3.66E-08
5430405H02Rik	-1.01	1.80E-07	-1.06	3.44E-07	-1.11	5.71E-08
5730508B09Rik	-1.25	3.14E-06	-1.30	6.19E-06	-1.24	2.77E-06
5830428H23Rik	1.59	2.51E-08	1.69	4.35E-08	1.83	4.45E-09
5830468F06Rik	2.70	8.78E-05	3.21	5.46E-05	2.46	1.65E-04
6030443J06Rik	1.90	8.62E-06	1.44	2.21E-04	2.17	2.13E-06
6030458C11Rik	1.18	4.50E-07	1.29	5.95E-07	1.29	1.52E-07
6330418K02Rik	0.72	4.93E-03	1.18	3.19E-04	1.22	8.70E-05
6330419J24Rik	-2.38	2.63E-03	-3.40	4.62E-04	-3.23	2.46E-04
6330549D23Rik	1.31	1.34E-02	1.47	1.31E-02	1.68	2.61E-03
6430571L13Rik	-1.62	1.41E-03	-1.51	5.01E-03	-2.04	2.20E-04
6530409C15Rik	1.16	1.51E-05	1.25	2.24E-05	1.49	1.47E-06
9230114K14Rik	-2.41	5.58E-07	-2.66	6.82E-07	-2.89	8.68E-08

<i>9330151L19Rik</i>	1.18	1.15E-06	1.31	1.38E-06	1.06	2.16E-06
<i>9330161L09Rik</i>	-2.33	1.18E-05	-1.70	4.06E-04	-1.67	1.66E-04
<i>9330175E14Rik</i>	1.55	3.35E-09	1.74	4.39E-09	2.76	3.59E-11
<i>9430038I01Rik</i>	-0.86	2.82E-04	-1.34	2.01E-05	-1.42	3.78E-06
<i>9830147E19Rik</i>	2.23	1.23E-04	1.71	2.19E-03	1.76	7.23E-04
<i>A230056P14Rik</i>	4.21	5.96E-05	4.55	8.16E-05	3.29	3.79E-04
<i>A330017A19Rik</i>	1.36	9.72E-03	1.85	2.93E-03	1.43	6.70E-03
<i>A430046D13Rik</i>	1.42	1.92E-07	1.66	1.59E-07	2.01	8.56E-09
<i>A430105I19Rik</i>	1.74	2.51E-05	2.44	4.00E-06	2.30	1.86E-06
<i>A530072M11Rik</i>	1.01	9.93E-04	1.38	2.20E-04	1.78	8.32E-06
<i>A530083I20Rik</i>	1.39	1.62E-06	1.19	1.61E-05	2.15	3.08E-08
<i>A630023P12Rik</i>	1.01	1.16E-06	0.98	4.15E-06	1.71	1.22E-08
<i>A930005H10Rik</i>	1.09	4.67E-07	1.19	6.19E-07	1.39	4.27E-08
<i>A930007I19Rik</i>	-1.51	1.78E-05	-1.31	1.53E-04	-1.16	1.40E-04
<i>A930024E05Rik</i>	-2.64	2.86E-06	-2.64	7.97E-06	-2.00	2.52E-05
<i>Aaed1</i>	1.20	1.33E-07	1.04	1.01E-06	1.57	9.97E-09
<i>Aar2</i>	-0.94	1.43E-07	-1.02	1.99E-07	-1.13	2.17E-08
<i>Aars</i>	-1.08	1.81E-07	-1.07	5.14E-07	-1.16	6.38E-08
<i>Aasdh</i>	0.71	1.82E-06	1.00	3.02E-07	1.10	3.45E-08
<i>Abca1</i>	-2.29	3.04E-05	-2.99	8.63E-06	-2.57	9.43E-06
<i>Abca5</i>	-1.47	3.89E-04	-1.40	1.33E-03	-1.42	4.49E-04
<i>Abcb11</i>	3.08	1.14E-06	3.80	5.66E-07	2.81	1.93E-06
<i>Abcb1a</i>	-2.33	1.48E-06	-2.75	1.07E-06	-2.57	4.80E-07
<i>Abcb1b</i>	-1.54	1.53E-06	-1.46	6.69E-06	-1.80	3.13E-07
<i>Abcb4</i>	-1.89	1.69E-04	-1.35	4.55E-03	-1.71	3.33E-04
<i>Abcb9</i>	-1.90	2.16E-06	-2.01	3.68E-06	-2.42	2.05E-07
<i>Abcd4</i>	1.08	5.66E-07	1.11	1.19E-06	1.20	1.57E-07
<i>Abcg1</i>	-1.71	2.00E-08	-2.02	1.75E-08	-2.23	1.44E-09
<i>Abcg4</i>	1.55	5.55E-03	2.46	4.97E-04	1.85	1.55E-03
<i>Abhd14a</i>	1.79	4.85E-07	1.75	1.59E-06	1.14	1.70E-05
<i>Abhd14b</i>	1.32	8.19E-07	1.50	7.77E-07	1.52	1.80E-07
<i>Abi2</i>	-1.25	3.80E-07	-1.23	1.16E-06	-1.23	2.88E-07
<i>Abl2</i>	-1.16	5.68E-08	-1.25	9.10E-08	-1.43	7.19E-09
<i>Acaa1a</i>	1.05	7.08E-08	1.17	8.59E-08	1.23	1.22E-08
<i>Acacb</i>	-2.08	4.37E-04	-1.83	2.58E-03	-2.85	2.88E-05
<i>Acad12</i>	1.35	7.72E-05	0.83	6.58E-03	1.61	1.46E-05
<i>Acadsb</i>	2.01	2.40E-05	2.51	1.01E-05	1.82	4.65E-05
<i>Acbd5</i>	-1.41	3.91E-07	-1.48	7.08E-07	-1.50	1.66E-07

<i>Acer2</i>	-1.39	8.67E-08	-1.52	1.20E-07	-2.10	2.50E-09
<i>Acot13</i>	1.24	1.24E-06	1.37	1.48E-06	1.41	3.12E-07
<i>Acot2</i>	-1.62	1.96E-07	-1.98	1.18E-07	-1.77	6.28E-08
<i>Acot7</i>	-1.19	6.88E-03	-1.10	2.04E-02	-2.40	3.06E-05
<i>Acox1</i>	-1.18	3.19E-08	-1.33	3.89E-08	-1.45	3.65E-09
<i>Acp5</i>	1.26	1.32E-08	1.24	3.52E-08	1.41	2.65E-09
<i>Acrbp</i>	1.28	5.77E-06	1.69	1.60E-06	1.72	3.70E-07
<i>Acs11</i>	-0.92	8.54E-08	-1.10	6.55E-08	-1.44	1.98E-09
<i>Acs13</i>	-1.70	1.81E-07	-1.81	2.90E-07	-2.26	1.25E-08
<i>Acsm3</i>	1.93	1.47E-02	2.67	4.11E-03	2.49	2.82E-03
<i>Acss1</i>	1.09	2.79E-08	0.91	2.49E-07	1.55	1.25E-09
<i>Actb</i>	1.55	8.72E-09	1.59	1.82E-08	1.25	1.61E-08
<i>Actrt3</i>	-2.77	9.42E-04	-3.25	6.63E-04	-2.04	6.78E-03
<i>Acvr2a</i>	-1.22	3.64E-07	-1.19	1.26E-06	-1.76	1.39E-08
<i>Acvr2b</i>	1.47	3.21E-03	1.70	2.51E-03	1.14	1.38E-02
<i>Acyp1</i>	1.08	5.87E-07	1.17	8.24E-07	1.49	2.91E-08
<i>Adam22</i>	1.72	3.72E-07	2.25	1.28E-07	2.04	6.22E-08
<i>Adam8</i>	1.55	2.73E-03	1.90	1.46E-03	1.68	1.44E-03
<i>Adamts14</i>	-1.93	1.22E-05	-2.37	5.83E-06	-2.45	1.23E-06
<i>Adamts3</i>	-2.60	7.64E-04	-2.81	1.01E-03	-3.46	6.99E-05
<i>Adamts14</i>	4.42	9.89E-09	4.92	1.27E-08	2.45	4.10E-07
<i>Adap1</i>	-1.60	1.76E-02	-1.77	1.90E-02	-1.53	2.07E-02
<i>Adat1</i>	1.60	5.62E-08	2.06	2.83E-08	2.09	4.40E-09
<i>Adcy5</i>	1.08	6.79E-03	1.95	2.27E-04	1.19	3.33E-03
<i>Adcy6</i>	1.21	1.44E-08	1.25	2.89E-08	1.42	2.03E-09
<i>Add1</i>	1.14	3.79E-11	1.10	1.97E-10	1.41	1.81E-12
<i>Adgrg1</i>	-1.81	3.01E-02	-1.98	3.38E-02	-3.15	9.07E-04
<i>Adgrg3</i>	-1.63	4.82E-04	-1.85	4.39E-04	-3.59	5.03E-07
<i>Adgrg5</i>	-1.28	5.56E-04	-1.41	6.43E-04	-1.88	2.11E-05
<i>Adgrl2</i>	-3.20	2.69E-05	-4.32	5.90E-06	-5.32	2.72E-07
<i>Adprh</i>	1.04	1.72E-06	1.11	2.76E-06	1.15	5.77E-07
<i>Aebp2</i>	-1.14	5.78E-08	-1.30	6.39E-08	-1.34	9.74E-09
<i>Aff1</i>	-2.34	7.74E-08	-2.79	6.07E-08	-2.72	1.42E-08
<i>Aff4</i>	-1.59	3.89E-08	-1.75	5.03E-08	-1.69	1.26E-08
<i>Ager</i>	2.32	6.13E-09	2.48	1.01E-08	2.72	7.86E-10
<i>Agfg2</i>	1.13	5.05E-08	1.13	1.30E-07	1.12	3.08E-08
<i>Aggf1</i>	-0.99	2.56E-07	-1.11	2.77E-07	-1.02	1.33E-07
<i>Agpat9</i>	-3.10	8.80E-05	-4.35	1.40E-05	-5.09	1.04E-06

<i>Agrp</i>	2.08	4.36E-03	1.65	3.09E-02	2.88	3.72E-04
<i>Ahnak</i>	-1.79	1.34E-06	-2.12	9.10E-07	-2.06	3.02E-07
<i>AI467606</i>	1.40	1.67E-09	1.44	3.54E-09	1.85	7.74E-11
<i>AI504432</i>	1.57	1.52E-04	1.41	8.44E-04	1.54	1.57E-04
<i>Aida</i>	0.93	1.51E-07	1.05	1.53E-07	2.06	3.39E-10
<i>Aigl</i>	-1.59	6.11E-07	-2.02	2.48E-07	-1.53	6.23E-07
<i>Aim1</i>	-1.19	8.54E-08	-1.24	1.65E-07	-2.32	4.67E-10
<i>Aim1l</i>	-1.14	1.35E-02	-1.81	1.40E-03	-1.21	8.72E-03
<i>Airn</i>	1.57	2.28E-06	1.59	5.68E-06	1.49	2.81E-06
<i>Ak6</i>	-1.04	5.64E-07	-0.99	2.44E-06	-1.17	1.53E-07
<i>Akap2</i>	-1.33	1.19E-05	-1.60	7.15E-06	-1.92	4.06E-07
<i>Akr1e1</i>	1.35	2.46E-06	1.47	3.48E-06	1.09	1.24E-05
<i>Akr7a5</i>	1.10	2.17E-05	1.03	9.87E-05	1.06	2.54E-05
<i>Aldh1l2</i>	2.04	4.00E-05	1.69	4.66E-04	2.69	3.05E-06
<i>Alg6</i>	1.05	3.65E-05	1.31	1.51E-05	1.30	4.82E-06
<i>Alkbh2</i>	1.16	4.62E-06	1.34	3.88E-06	1.38	8.15E-07
<i>Als2cr12</i>	1.64	6.31E-04	2.04	2.84E-04	1.56	8.32E-04
<i>Amd1</i>	-1.93	8.93E-07	-2.44	3.75E-07	-2.65	4.56E-08
<i>Amd2</i>	-2.45	2.20E-05	-1.91	4.21E-04	-2.01	9.72E-05
<i>Amdhd2</i>	0.95	3.27E-05	1.04	4.20E-05	1.15	5.11E-06
<i>Amigo1</i>	1.90	1.07E-06	1.71	7.16E-06	1.50	6.41E-06
<i>Amn1</i>	1.28	1.46E-06	1.53	9.15E-07	1.75	7.93E-08
<i>Ampd1</i>	-1.20	1.49E-05	-1.31	1.95E-05	-1.84	3.03E-07
<i>Amt</i>	2.05	3.33E-08	1.96	1.07E-07	2.13	1.26E-08
<i>Amy1</i>	1.42	1.04E-04	1.43	2.55E-04	1.94	6.38E-06
<i>Anapc7</i>	-1.04	1.01E-08	-1.09	1.75E-08	-1.13	2.26E-09
<i>Angptl6</i>	2.17	7.16E-06	2.30	1.22E-05	2.10	7.89E-06
<i>Ankrd13c</i>	-1.39	2.55E-07	-1.52	3.41E-07	-1.41	1.56E-07
<i>Ankrd13d</i>	1.24	8.43E-07	1.20	2.93E-06	1.49	1.29E-07
<i>Ankrd50</i>	-2.24	3.03E-07	-2.71	1.82E-07	-2.89	2.58E-08
<i>Ankrd53</i>	1.94	8.27E-04	1.63	5.88E-03	2.36	1.59E-04
<i>Ankzf1</i>	0.98	1.03E-07	1.02	1.90E-07	1.35	5.37E-09
<i>Anln</i>	-1.07	2.13E-02	-1.53	5.30E-03	-2.08	2.21E-04
<i>Anxa4</i>	1.82	1.80E-05	2.08	1.60E-05	1.41	1.34E-04
<i>Anxa7</i>	1.01	1.13E-07	1.25	6.80E-08	1.28	1.13E-08
<i>Ap1m2</i>	-0.82	3.40E-04	-1.42	1.01E-05	-1.17	1.53E-05
<i>Ap1s3</i>	-1.04	4.68E-06	-0.97	2.34E-05	-1.08	2.85E-06
<i>Ap3s2</i>	0.98	2.36E-08	1.13	2.37E-08	1.14	3.78E-09

<i>Ap5b1</i>	1.31	5.63E-07	1.12	5.70E-06	1.66	5.39E-08
<i>Apbb1</i>	1.71	2.03E-05	1.68	6.23E-05	1.52	4.65E-05
<i>Apcdd1</i>	-2.17	1.58E-02	-2.28	2.23E-02	-3.66	4.46E-04
<i>Apex1</i>	-1.43	7.69E-08	-1.64	7.76E-08	-2.42	1.04E-09
<i>Aph1b</i>	-1.14	1.98E-02	-1.18	2.91E-02	-1.68	1.62E-03
<i>Aplf</i>	1.14	5.26E-06	1.40	2.61E-06	1.32	1.20E-06
<i>Apmap</i>	-1.07	2.80E-08	-1.22	2.94E-08	-1.18	6.96E-09
<i>Apobec2</i>	1.42	1.18E-03	1.85	3.89E-04	1.99	7.27E-05
<i>Apobec3</i>	1.07	5.30E-07	1.16	7.27E-07	2.15	1.83E-09
<i>Apol8</i>	-3.22	8.42E-05	-3.47	1.17E-04	-4.47	4.32E-06
<i>Apol9a</i>	-2.98	1.68E-03	-3.64	9.05E-04	-3.06	1.25E-03
<i>Apol9b</i>	-3.05	3.08E-05	-3.54	2.37E-05	-2.66	8.48E-05
<i>Appbp2</i>	-1.04	1.47E-07	-1.08	2.97E-07	-1.20	2.96E-08
<i>Arc</i>	-1.36	5.13E-05	-1.49	6.36E-05	-2.03	1.38E-06
<i>Areg</i>	-3.08	4.63E-06	-1.96	4.97E-04	-3.02	4.47E-06
<i>Arf4</i>	-1.61	1.19E-07	-1.83	1.24E-07	-2.00	1.36E-08
<i>Arhgap12</i>	1.78	2.12E-09	1.87	3.71E-09	1.30	4.52E-09
<i>Arhgap17</i>	-1.00	4.43E-08	-1.14	4.63E-08	-1.23	5.36E-09
<i>Arhgap20</i>	-2.83	4.52E-04	-1.97	1.13E-02	-2.48	1.10E-03
<i>Arhgef10</i>	-2.70	5.13E-06	-3.72	9.94E-07	-1.66	2.57E-04
<i>Arhgef5</i>	-1.12	4.38E-04	-1.20	6.07E-04	-1.23	1.88E-04
<i>Arid4b</i>	-1.08	9.57E-08	-1.05	3.02E-07	-1.09	5.26E-08
<i>Arid5a</i>	-1.28	4.09E-08	-1.45	4.55E-08	-1.55	5.25E-09
<i>Arih1</i>	-1.00	2.79E-08	-1.05	5.10E-08	-1.08	8.17E-09
<i>Arih2</i>	-1.23	1.01E-08	-1.33	1.55E-08	-1.24	3.88E-09
<i>Arl10</i>	2.89	3.43E-08	2.99	6.80E-08	2.92	1.62E-08
<i>Arl3</i>	1.17	6.69E-07	1.30	7.52E-07	1.20	3.87E-07
<i>Arl4d</i>	-1.57	1.42E-03	-1.29	1.07E-02	-1.63	9.81E-04
<i>Arl5b</i>	-2.08	8.98E-07	-2.53	5.10E-07	-2.67	8.00E-08
<i>Arl8b</i>	-1.19	2.39E-07	-1.37	2.26E-07	-1.41	4.02E-08
<i>Armc3</i>	0.80	3.15E-03	1.54	5.20E-05	1.59	1.24E-05
<i>Armcx1</i>	-0.90	2.88E-03	-1.16	1.11E-03	-1.90	6.52E-06
<i>Armcx4</i>	-2.29	1.27E-05	-2.80	6.39E-06	-4.27	5.00E-08
<i>Armcx5</i>	-1.58	4.30E-04	-1.78	4.19E-04	-2.29	1.72E-05
<i>Armcx6</i>	-1.01	1.70E-03	-1.15	1.52E-03	-1.70	2.28E-05
<i>Arntl2</i>	1.88	9.46E-03	1.91	1.64E-02	1.61	2.11E-02
<i>Arpcla</i>	-0.94	9.42E-09	-1.03	1.33E-08	-1.11	1.28E-09
<i>Arrdc3</i>	-1.00	2.01E-06	-1.10	2.49E-06	-1.10	6.69E-07

<i>Arsk</i>	1.51	4.44E-07	1.58	8.23E-07	2.00	3.03E-08
<i>Art2b</i>	2.45	8.03E-09	3.13	5.57E-09	4.48	7.35E-11
<i>Art5</i>	-1.47	2.41E-02	-1.87	1.22E-02	-2.18	2.04E-03
<i>Asah1</i>	1.03	6.13E-09	1.04	1.33E-08	1.02	2.43E-09
<i>Ascl3</i>	1.33	2.14E-03	1.71	8.13E-04	1.80	1.98E-04
<i>Asfla</i>	-1.07	1.18E-04	-1.46	2.34E-05	-1.04	1.30E-04
<i>Asgr1</i>	-1.96	1.80E-02	-1.87	3.93E-02	-3.23	6.32E-04
<i>Aspm</i>	-2.30	2.80E-05	-2.40	5.34E-05	-2.63	7.39E-06
<i>Asrgl1</i>	1.47	4.52E-08	1.59	6.80E-08	1.66	9.77E-09
<i>Atad2</i>	-1.87	2.49E-07	-2.18	2.13E-07	-2.11	6.27E-08
<i>Atad3aos</i>	1.15	4.69E-04	1.07	1.87E-03	1.36	1.07E-04
<i>Atad5</i>	-1.92	5.20E-07	-2.20	4.84E-07	-3.37	4.53E-09
<i>Atcay</i>	-1.01	9.10E-03	-1.37	2.64E-03	-1.56	4.05E-04
<i>Atf1</i>	-0.96	1.18E-07	-1.07	1.47E-07	-1.09	2.71E-08
<i>Atf3</i>	-3.12	2.45E-04	-4.49	3.27E-05	-4.84	5.27E-06
<i>Atf4</i>	-1.05	9.22E-07	-1.13	1.35E-06	-1.35	8.24E-08
<i>Atf5</i>	-0.88	3.20E-03	-1.18	9.70E-04	-1.03	9.67E-04
<i>Atg101</i>	-1.03	1.08E-06	-1.27	5.65E-07	-1.16	3.02E-07
<i>Atg14</i>	-1.28	3.98E-08	-1.39	5.60E-08	-1.11	6.22E-08
<i>Atg2a</i>	-1.20	4.17E-08	-1.40	3.98E-08	-1.31	1.16E-08
<i>Atg7</i>	-1.56	2.90E-08	-1.63	5.47E-08	-1.49	2.03E-08
<i>Atl2</i>	-1.46	3.72E-07	-1.69	3.09E-07	-1.72	6.66E-08
<i>Atpla2</i>	-2.13	3.83E-05	-1.29	4.09E-03	-2.41	1.15E-05
<i>Atp6v0d1</i>	-1.37	2.41E-08	-1.47	3.87E-08	-1.41	9.08E-09
<i>Atp6v0e2</i>	-1.48	6.56E-03	-1.26	2.99E-02	-1.75	1.97E-03
<i>Atp6v1e1</i>	-1.41	1.75E-08	-1.49	2.97E-08	-1.51	4.89E-09
<i>Atp6v1g2</i>	1.04	4.25E-03	1.83	1.52E-04	1.61	1.51E-04
<i>Atp6v1h</i>	-1.09	2.00E-08	-1.17	3.04E-08	-1.43	1.42E-09
<i>Atxn7llos2</i>	1.10	3.67E-08	0.87	4.96E-07	1.11	1.71E-08
<i>AU020206</i>	1.33	2.10E-07	1.52	2.05E-07	1.63	2.71E-08
<i>AU022252</i>	0.94	1.43E-07	1.06	1.53E-07	1.10	2.68E-08
<i>Aurka</i>	-0.99	5.58E-03	-1.21	3.17E-03	-1.15	1.92E-03
<i>AV099323</i>	1.55	1.57E-02	2.07	5.45E-03	2.81	2.38E-04
<i>Avil</i>	1.30	3.42E-05	1.47	3.17E-05	3.07	1.96E-08
<i>Avl9</i>	-1.50	2.33E-07	-1.71	2.29E-07	-1.66	6.71E-08
<i>AW146154</i>	1.96	2.49E-03	2.35	1.59E-03	2.37	5.75E-04
<i>Axl</i>	-2.54	2.23E-04	-3.12	1.08E-04	-2.74	1.06E-04
<i>Azin1</i>	-1.34	1.60E-07	-1.54	1.47E-07	-1.54	3.32E-08



<i>B130034C11Rik</i>	2.62	7.33E-08	2.60	1.98E-07	2.88	2.04E-08
<i>B3galnt2</i>	1.10	3.38E-07	1.18	5.19E-07	1.15	1.63E-07
<i>B3gnt3</i>	1.26	5.82E-04	1.26	1.36E-03	1.76	3.46E-05
<i>B3gnt5</i>	1.12	1.22E-06	1.23	1.54E-06	2.62	1.35E-09
<i>B3gnt7</i>	-1.81	9.65E-03	-1.85	1.64E-02	-1.42	3.29E-02
<i>B3gnt9</i>	1.54	9.11E-04	1.65	1.29E-03	1.61	5.89E-04
<i>B430212C06Rik</i>	1.54	9.26E-04	1.96	3.50E-04	1.84	2.10E-04
<i>B4galnt1</i>	-1.19	1.54E-08	-1.34	1.81E-08	-1.29	3.88E-09
<i>B630019A10Rik</i>	1.05	2.93E-07	1.06	7.20E-07	2.48	4.13E-10
<i>Bace1</i>	1.45	1.40E-07	1.80	7.72E-08	1.75	1.96E-08
<i>Bach1</i>	-1.26	3.73E-07	-1.37	5.15E-07	-1.10	8.16E-07
<i>Bach2it1</i>	-1.59	3.07E-03	-2.05	1.16E-03	-1.39	6.75E-03
<i>Bag3</i>	-1.40	1.72E-05	-1.63	1.36E-05	-1.21	5.09E-05
<i>Bag4</i>	-1.04	2.89E-05	-1.19	2.56E-05	-1.12	1.24E-05
<i>Baiap2</i>	-1.54	1.38E-07	-1.95	6.90E-08	-2.06	9.08E-09
<i>Bambi</i>	-1.96	7.07E-04	-2.45	3.09E-04	-2.99	1.94E-05
<i>Banp</i>	1.20	7.31E-06	1.08	4.85E-05	1.41	1.49E-06
<i>Bap1</i>	-1.03	3.19E-08	-1.05	7.19E-08	-1.04	1.48E-08
<i>Baspl</i>	-1.13	3.45E-05	-1.38	1.63E-05	-1.51	2.23E-06
<i>Batf</i>	-1.44	1.98E-05	-1.66	1.68E-05	-1.59	7.27E-06
<i>Bbs10</i>	1.45	2.48E-07	1.29	1.76E-06	2.02	1.22E-08
<i>BC017158</i>	1.12	2.64E-07	1.03	1.41E-06	1.02	4.05E-07
<i>BC025920</i>	1.97	1.10E-06	2.09	1.88E-06	2.57	8.62E-08
<i>BC030499</i>	1.12	8.83E-04	1.33	6.00E-04	1.53	6.63E-05
<i>BC049352</i>	1.64	3.94E-04	2.28	7.22E-05	1.01	1.00E-02
<i>BC051226</i>	1.37	2.19E-06	1.61	1.59E-06	1.93	8.68E-08
<i>BC068281</i>	1.26	5.10E-07	1.64	1.82E-07	1.37	1.78E-07
<i>BC094916</i>	1.25	7.45E-08	1.42	7.75E-08	2.60	2.79E-10
<i>BC106179</i>	1.90	2.16E-02	1.94	3.40E-02	3.38	4.54E-04
<i>BC147527</i>	2.08	7.26E-07	2.60	3.36E-07	3.15	1.76E-08
<i>Bcar1</i>	-2.29	1.39E-02	-3.96	8.02E-04	-2.86	3.21E-03
<i>Bcat1</i>	-2.24	2.40E-03	-2.72	1.37E-03	-3.04	2.18E-04
<i>Bcl10</i>	-1.51	1.08E-07	-1.66	1.41E-07	-1.69	2.64E-08
<i>Bcl2a1a</i>	-1.70	3.58E-03	-1.62	9.82E-03	-1.97	1.16E-03
<i>Bcl2a1b</i>	-2.31	1.45E-07	-2.89	7.70E-08	-2.86	1.68E-08
<i>Bcl2l11</i>	-1.08	8.57E-09	-1.09	1.96E-08	-1.94	8.35E-11
<i>Bcl2l12</i>	1.44	1.66E-06	1.22	1.76E-05	1.27	3.84E-06
<i>Bcl2l13</i>	-1.32	2.96E-08	-1.47	3.83E-08	-1.60	3.77E-09

<i>Bcl2l15</i>	1.46	2.71E-03	1.55	3.92E-03	1.97	2.56E-04
<i>Bdkrb1</i>	2.00	5.79E-03	1.62	3.43E-02	1.98	5.65E-03
<i>BE692007</i>	1.58	5.62E-08	1.94	3.73E-08	2.82	5.48E-10
<i>Bend3</i>	-2.10	4.12E-08	-2.43	4.22E-08	-3.05	1.56E-09
<i>Bend4</i>	-2.87	1.84E-05	-4.13	2.36E-06	-3.39	3.57E-06
<i>Bend5</i>	-2.08	4.23E-03	-1.85	1.68E-02	-2.46	1.24E-03
<i>Bhlha15</i>	0.59	9.49E-04	1.45	1.78E-06	1.01	1.14E-05
<i>Bhlhe40</i>	-2.64	5.37E-07	-3.60	1.36E-07	-3.92	1.54E-08
<i>Bhlhe41</i>	-3.43	6.96E-05	-4.55	1.74E-05	-5.26	1.45E-06
<i>Bin2</i>	1.17	9.14E-09	1.26	1.44E-08	1.04	8.28E-09
<i>Blm</i>	-1.81	2.41E-07	-2.05	2.47E-07	-2.03	6.35E-08
<i>Bloc1s3</i>	1.13	3.53E-07	1.06	1.69E-06	1.40	4.36E-08
<i>Blvrb</i>	1.02	9.39E-04	0.79	1.08E-02	1.54	2.89E-05
<i>Bmp2k</i>	-1.53	2.07E-07	-1.56	4.66E-07	-1.66	7.07E-08
<i>Bpgm</i>	-1.57	1.12E-06	-1.67	1.85E-06	-1.39	2.44E-06
<i>Bpnt1</i>	-1.40	7.13E-07	-1.84	2.31E-07	-1.82	5.92E-08
<i>Brat1</i>	1.02	5.60E-09	1.08	8.67E-09	1.21	6.16E-10
<i>Brcal</i>	-1.54	2.83E-05	-1.65	4.23E-05	-1.11	3.42E-04
<i>Brms1l</i>	0.99	3.17E-07	1.20	1.90E-07	1.26	3.00E-08
<i>Bsdcl</i>	-1.32	2.41E-08	-1.52	2.43E-08	-1.55	3.65E-09
<i>Btaf1</i>	-1.04	3.01E-08	-1.04	7.36E-08	-1.13	7.90E-09
<i>Btbd10</i>	-1.05	2.32E-06	-1.07	5.33E-06	-1.27	3.39E-07
<i>Btg1</i>	-1.22	1.24E-06	-1.45	8.56E-07	-1.18	1.26E-06
<i>Btg2</i>	-1.21	1.24E-06	-1.43	8.39E-07	-1.06	2.91E-06
<i>Btg3</i>	-1.20	1.31E-06	-1.30	1.86E-06	-1.79	3.31E-08
<i>Btnl7-ps</i>	1.82	3.35E-05	1.66	1.88E-04	3.11	2.72E-07
<i>Bud31</i>	-1.12	4.60E-07	-1.24	5.48E-07	-1.31	8.69E-08
<i>Bzw2</i>	-1.30	4.31E-08	-1.41	6.55E-08	-1.98	1.20E-09
<i>C030039L03Rik</i>	0.94	2.05E-06	1.01	3.08E-06	1.18	2.18E-07
<i>C130036L24Rik</i>	1.89	3.98E-08	2.08	5.25E-08	2.08	1.01E-08
<i>C130046K22Rik</i>	1.21	1.02E-04	1.17	3.25E-04	1.51	1.36E-05
<i>C1qtnf9</i>	1.28	6.17E-03	2.01	5.89E-04	1.33	4.39E-03
<i>C230037L18Rik</i>	1.93	5.65E-08	1.77	2.69E-07	2.13	1.49E-08
<i>C230038L03Rik</i>	-2.49	6.44E-05	-2.55	1.39E-04	-3.70	1.79E-06
<i>C230062I16Rik</i>	2.41	3.95E-05	2.93	2.01E-05	2.48	2.55E-05
<i>C2cd2</i>	1.12	2.41E-07	1.02	1.42E-06	1.02	3.70E-07
<i>C330018D20Rik</i>	0.93	3.39E-06	1.03	4.03E-06	1.52	4.14E-08
<i>C330027C09Rik</i>	-2.57	1.95E-04	-3.34	5.96E-05	-3.42	1.53E-05

<i>C430002N11Rik</i>	-2.85	8.14E-05	-1.22	4.53E-02	-1.26	2.08E-02
<i>C77080</i>	-1.79	1.67E-04	-1.04	1.50E-02	-1.74	1.77E-04
<i>C920009B18Rik</i>	-2.58	2.05E-04	-2.40	8.67E-04	-2.83	8.39E-05
<i>C920025E04Rik</i>	1.17	3.76E-06	1.12	1.41E-05	1.39	6.30E-07
<i>Cabp4</i>	0.78	3.36E-02	1.50	1.35E-03	1.42	7.94E-04
<i>Cacna2d4</i>	1.79	6.03E-09	1.78	1.41E-08	2.20	5.47E-10
<i>Cacnb3</i>	1.14	6.72E-05	0.72	4.96E-03	2.23	1.72E-07
<i>Calca</i>	-1.81	2.57E-04	-1.96	3.45E-04	-2.09	7.18E-05
<i>Calm2</i>	-1.02	1.84E-07	-1.09	3.09E-07	-1.16	4.22E-08
<i>Camk2n1</i>	0.93	4.24E-04	1.38	4.53E-05	1.13	8.16E-05
<i>Camsap2</i>	-1.53	4.52E-08	-1.74	4.88E-08	-1.99	3.62E-09
<i>Car11</i>	1.33	8.95E-05	0.90	4.01E-03	1.36	6.44E-05
<i>Card9</i>	1.20	1.72E-06	0.84	8.85E-05	1.09	3.06E-06
<i>Carhsp1</i>	-1.00	1.75E-07	-1.17	1.42E-07	-1.08	5.98E-08
<i>Carns1</i>	1.30	1.95E-08	1.28	5.09E-08	1.79	9.76E-10
<i>Casc4</i>	-1.67	3.66E-07	-1.87	4.02E-07	-2.39	1.47E-08
<i>Casc5</i>	-2.07	8.82E-06	-2.09	2.19E-05	-1.67	4.45E-05
<i>Casp3</i>	-1.26	4.41E-06	-1.30	9.01E-06	-1.99	6.87E-08
<i>Casp9</i>	1.60	1.52E-08	1.56	4.27E-08	1.61	6.28E-09
<i>Cass4</i>	1.02	1.44E-02	0.98	3.07E-02	1.76	3.15E-04
<i>Casz1</i>	-2.01	1.08E-07	-2.48	6.52E-08	-2.14	4.04E-08
<i>Cbx5</i>	1.47	8.10E-09	1.59	1.22E-08	1.52	2.43E-09
<i>Ccbl1</i>	1.17	3.53E-07	1.04	2.51E-06	1.02	7.93E-07
<i>Ccdc101</i>	1.05	4.79E-07	1.14	6.93E-07	1.23	8.67E-08
<i>Ccdc106</i>	0.98	3.85E-02	1.36	1.31E-02	1.58	2.34E-03
<i>Ccdc107</i>	1.07	1.97E-06	1.04	6.75E-06	1.03	2.16E-06
<i>Ccdc117</i>	-1.96	3.97E-07	-2.35	2.56E-07	-2.23	9.19E-08
<i>Ccdc136</i>	1.78	2.24E-02	2.16	1.46E-02	1.52	4.50E-02
<i>Ccdc163</i>	1.32	1.72E-06	1.52	1.44E-06	1.58	2.83E-07
<i>Ccdc167</i>	1.68	4.45E-04	1.91	4.02E-04	1.57	6.51E-04
<i>Ccdc175</i>	1.60	3.51E-03	2.55	2.65E-04	1.30	1.16E-02
<i>Ccdc18</i>	1.06	5.82E-04	0.65	2.70E-02	1.33	8.87E-05
<i>Ccdc181</i>	0.89	1.04E-03	1.09	5.56E-04	1.72	4.10E-06
<i>Ccdc186</i>	-1.09	9.07E-07	-1.12	1.93E-06	-1.14	4.37E-07
<i>Ccdc39</i>	1.18	4.37E-04	2.20	6.97E-06	1.81	1.10E-05
<i>Ccdc51</i>	1.01	3.10E-05	1.16	2.66E-05	1.10	1.27E-05
<i>Ccdc73</i>	1.35	3.26E-05	2.08	2.38E-06	1.79	2.42E-06
<i>Ccdc8</i>	-2.03	2.60E-02	-2.19	3.16E-02	-2.28	1.33E-02

<i>Ccdc86</i>	-0.98	5.35E-06	-1.08	6.19E-06	-1.44	1.50E-07
<i>Ccin</i>	1.93	4.34E-03	3.36	1.76E-04	1.25	4.36E-02
<i>Ccnb2</i>	2.11	3.78E-04	2.69	1.41E-04	2.90	2.40E-05
<i>Ccne1</i>	2.20	3.01E-08	1.96	1.63E-07	2.50	6.22E-09
<i>Ccne2</i>	-2.16	2.46E-05	-2.74	9.01E-06	-2.78	2.31E-06
<i>Ccnk</i>	-1.17	2.37E-08	-1.26	3.62E-08	-1.23	7.94E-09
<i>Ccno</i>	-1.92	6.15E-03	-1.99	9.74E-03	-2.73	4.68E-04
<i>Ccnt1</i>	-1.23	6.50E-08	-1.37	8.28E-08	-1.35	1.83E-08
<i>Ccnyl1</i>	-1.37	1.10E-06	-1.54	1.17E-06	-1.70	1.31E-07
<i>Ccpgl</i>	-1.41	1.43E-07	-1.70	9.92E-08	-1.17	4.46E-07
<i>Ccr2</i>	-1.11	1.32E-03	-1.24	1.35E-03	-1.64	5.32E-05
<i>Ccr4</i>	-1.90	1.14E-04	-2.06	1.55E-04	-3.53	4.65E-07
<i>Ccr7</i>	-1.54	1.92E-08	-1.84	1.60E-08	-2.18	7.94E-10
<i>Ccr8</i>	-3.09	6.53E-04	-4.58	7.31E-05	-5.81	2.90E-06
<i>Ccrl2</i>	-1.89	1.19E-03	-2.18	9.83E-04	-1.55	4.17E-03
<i>Cd164l2</i>	-3.07	1.40E-05	-2.69	1.12E-04	-4.54	3.85E-07
<i>Cd200r1</i>	1.62	4.53E-08	2.23	1.60E-08	1.56	3.43E-08
<i>Cd24a</i>	-2.42	7.32E-05	-3.42	1.09E-05	-3.88	1.05E-06
<i>Cd44</i>	-1.83	5.85E-07	-2.20	3.59E-07	-2.37	4.72E-08
<i>Cd46</i>	1.41	5.24E-07	1.45	1.15E-06	2.00	2.13E-08
<i>Cd47</i>	1.17	2.83E-09	1.19	6.05E-09	1.21	7.08E-10
<i>Cd48</i>	1.75	1.04E-09	1.89	1.36E-09	1.27	1.57E-09
<i>Cd69</i>	-3.12	4.00E-05	-4.27	7.72E-06	-4.57	1.22E-06
<i>Cd7</i>	1.11	9.06E-05	1.51	1.88E-05	1.76	1.43E-06
<i>Cd83</i>	-2.22	1.45E-04	-2.79	5.79E-05	-2.90	1.30E-05
<i>Cd86</i>	-2.51	1.89E-06	-2.95	1.35E-06	-1.74	3.47E-05
<i>Cd9</i>	0.99	1.09E-06	1.11	1.17E-06	1.79	7.11E-09
<i>Cdc20</i>	-0.98	9.94E-05	-1.34	2.06E-05	-1.32	6.96E-06
<i>Cdc25b</i>	2.18	5.89E-09	1.95	2.61E-08	2.96	3.00E-10
<i>Cdc27</i>	-1.27	1.73E-07	-1.33	3.24E-07	-1.51	2.89E-08
<i>Cdc42sel</i>	1.14	7.90E-10	1.26	1.11E-09	1.33	6.69E-11
<i>Cdc45</i>	-1.60	8.77E-05	-1.30	1.10E-03	-1.85	2.17E-05
<i>Cdca2</i>	-1.37	3.05E-05	-0.91	1.84E-03	-1.63	5.59E-06
<i>Cdh1</i>	-3.11	2.57E-04	-3.05	7.28E-04	-3.41	1.08E-04
<i>Cdh23</i>	1.12	1.60E-06	0.94	1.91E-05	1.80	2.28E-08
<i>Cdh24</i>	-1.07	2.57E-06	-0.92	2.43E-05	-1.24	5.72E-07
<i>Cdk11b</i>	-1.50	3.01E-08	-1.75	2.94E-08	-1.78	4.43E-09
<i>Cdk17</i>	-1.09	4.36E-08	-1.25	4.55E-08	-1.04	3.40E-08

<i>Cdkn1a</i>	-3.16	1.98E-04	-4.07	6.50E-05	-5.15	2.60E-06
<i>Cdkn2aip</i>	-1.11	2.29E-07	-1.11	6.55E-07	-1.09	1.81E-07
<i>Cdo1</i>	0.75	3.29E-02	1.27	3.17E-03	1.34	8.92E-04
<i>Cdpf1</i>	1.38	2.53E-07	1.18	2.54E-06	1.76	2.44E-08
<i>Cdt1</i>	-1.35	5.72E-07	-1.63	3.42E-07	-1.80	3.66E-08
<i>Ceacam1</i>	-1.38	9.48E-03	-2.40	4.70E-04	-1.10	2.91E-02
<i>Cebpa</i>	-1.09	2.81E-02	-2.62	1.84E-04	-1.89	8.35E-04
<i>Cecr6</i>	-1.13	3.18E-03	-1.69	3.87E-04	-1.43	5.35E-04
<i>Celf3</i>	1.84	2.60E-05	2.05	2.84E-05	2.38	2.35E-06
<i>Cenpc1</i>	-0.99	4.43E-08	-1.00	9.87E-08	-1.61	7.67E-10
<i>Cenpe</i>	-1.99	1.29E-05	-2.46	5.87E-06	-1.91	1.53E-05
<i>Cenpi</i>	-1.53	6.33E-04	-1.86	3.49E-04	-1.65	3.08E-04
<i>Cenpl</i>	-2.01	1.04E-06	-2.53	4.34E-07	-2.69	6.34E-08
<i>Cenpq</i>	-1.27	1.42E-06	-1.17	7.69E-06	-1.22	1.60E-06
<i>Cenpw</i>	-1.47	1.69E-03	-1.59	2.12E-03	-1.58	8.93E-04
<i>Cep120</i>	-1.35	1.06E-07	-1.45	1.64E-07	-1.34	6.73E-08
<i>Cep19</i>	1.11	1.84E-05	0.78	8.15E-04	1.16	1.09E-05
<i>Cep55</i>	-2.32	2.39E-04	-1.95	2.10E-03	-2.08	4.93E-04
<i>Cep57</i>	-0.97	1.42E-06	-1.10	1.46E-06	-1.06	5.35E-07
<i>Cep68</i>	1.05	5.76E-09	1.10	9.54E-09	1.27	5.48E-10
<i>Cep76</i>	-1.03	4.20E-06	-1.20	3.14E-06	-1.23	6.78E-07
<i>Cep83os</i>	0.80	7.41E-05	1.14	1.01E-05	1.34	6.94E-07
<i>Cep85l</i>	-1.40	7.86E-07	-1.60	7.15E-07	-1.47	3.81E-07
<i>Cfap43</i>	-0.97	7.10E-09	-1.31	3.71E-09	-1.07	1.36E-09
<i>Cfap97</i>	0.97	1.86E-07	1.02	3.35E-07	1.34	9.98E-09
<i>Chaf1a</i>	-2.39	5.16E-04	-3.18	1.33E-04	-3.33	2.95E-05
<i>Chd1</i>	-1.07	1.51E-07	-1.16	2.06E-07	-1.08	8.46E-08
<i>Chd2</i>	-1.42	4.72E-08	-1.47	9.42E-08	-1.22	8.63E-08
<i>Chd7</i>	-1.85	3.95E-08	-2.09	4.51E-08	-1.98	1.24E-08
<i>Chdh</i>	-1.37	1.46E-05	-1.65	8.21E-06	-1.90	6.84E-07
<i>Chek1</i>	-1.76	7.79E-05	-2.37	1.73E-05	-2.71	1.59E-06
<i>Chek2</i>	1.93	1.08E-07	1.91	2.96E-07	1.88	8.00E-08
<i>Chka</i>	-1.86	4.05E-06	-2.39	1.38E-06	-2.78	9.95E-08
<i>Chl1</i>	-3.46	2.29E-04	-2.75	2.88E-03	-4.84	1.18E-05
<i>Chn2</i>	-2.02	3.59E-05	-2.41	2.14E-05	-2.23	1.30E-05
<i>Chrm3</i>	-2.25	1.50E-02	-3.12	4.19E-03	-2.69	4.81E-03
<i>Chrna2</i>	-2.22	5.37E-04	-2.31	9.29E-04	-2.32	3.41E-04
<i>Chrnb1</i>	1.04	2.62E-05	1.15	3.02E-05	1.13	1.06E-05

<i>Chrb2</i>	1.07	8.10E-07	1.03	3.28E-06	1.28	1.33E-07
<i>Chrne</i>	-1.81	2.75E-04	-3.25	5.89E-06	-2.24	4.15E-05
<i>Chst12</i>	1.66	8.83E-07	1.75	1.57E-06	1.59	9.11E-07
<i>Chst2</i>	-3.07	5.55E-03	-4.77	5.75E-04	-6.98	8.26E-06
<i>Ciart</i>	-2.86	3.78E-03	-3.39	2.59E-03	-5.43	2.31E-05
<i>Cir1</i>	-1.16	6.19E-07	-1.21	1.16E-06	-1.03	1.26E-06
<i>Cirh1a</i>	-1.11	5.68E-08	-1.23	7.67E-08	-1.44	4.91E-09
<i>Cited1</i>	-1.42	1.22E-02	-1.71	8.05E-03	-1.36	1.44E-02
<i>Cited2</i>	-1.47	1.66E-06	-1.79	9.06E-07	-1.62	5.64E-07
<i>Ckap2</i>	-1.95	1.68E-06	-2.25	1.42E-06	-3.07	2.82E-08
<i>Ckap2l</i>	-2.24	1.34E-04	-2.85	4.86E-05	-2.69	2.44E-05
<i>Ckb</i>	-0.96	1.68E-05	-1.39	2.04E-06	-1.89	4.02E-08
<i>Cks2</i>	-2.06	3.79E-05	-2.29	4.13E-05	-4.04	9.31E-08
<i>Clcf1</i>	0.97	3.37E-08	1.06	4.55E-08	1.15	5.08E-09
<i>Cldn4</i>	1.91	9.08E-04	1.86	2.54E-03	1.07	3.08E-02
<i>Cldnd1</i>	-0.96	2.36E-07	-1.10	2.19E-07	-1.15	3.62E-08
<i>Cltc</i>	-1.41	4.60E-08	-1.53	6.82E-08	-1.67	7.17E-09
<i>Cmah</i>	1.51	7.84E-10	1.54	1.27E-09	2.04	2.23E-11
<i>Cnbp</i>	-1.08	4.36E-08	-1.14	7.58E-08	-1.18	1.15E-08
<i>Cnga1</i>	2.73	6.04E-09	2.90	1.00E-08	3.67	3.29E-10
<i>Cnksr3</i>	-1.18	7.92E-09	-1.38	8.39E-09	-1.22	2.33E-09
<i>Cnnm4</i>	-1.29	1.64E-06	-1.69	4.86E-07	-1.48	3.62E-07
<i>Cnot6</i>	-1.20	7.99E-08	-1.18	2.39E-07	-1.24	3.72E-08
<i>Cnp</i>	1.42	4.70E-09	1.50	8.39E-09	1.61	6.79E-10
<i>Cnst</i>	-1.32	1.40E-08	-1.39	2.43E-08	-1.41	3.73E-09
<i>Coa7</i>	-1.01	8.55E-06	-1.25	3.88E-06	-1.10	3.23E-06
<i>Coasy</i>	1.31	6.68E-06	1.54	4.59E-06	1.67	6.30E-07
<i>Cobll1</i>	-2.35	3.88E-04	-1.73	7.33E-03	-2.82	7.86E-05
<i>Coll1a2</i>	1.22	2.96E-08	1.30	4.71E-08	1.51	3.17E-09
<i>Col23a1</i>	0.96	1.08E-04	1.21	4.15E-05	1.54	1.61E-06
<i>Colq</i>	-2.75	9.65E-05	-2.46	5.64E-04	-2.44	2.21E-04
<i>Cops2</i>	-0.97	1.75E-06	-1.06	2.45E-06	-1.14	3.38E-07
<i>Cops8</i>	-1.11	1.59E-08	-1.14	3.26E-08	-1.18	4.42E-09
<i>Coq10b</i>	-2.55	2.04E-06	-3.08	1.17E-06	-3.52	9.80E-08
<i>Coq3</i>	1.03	7.03E-07	0.93	4.66E-06	1.02	5.68E-07
<i>Coq4</i>	1.20	1.43E-04	1.10	6.79E-04	1.41	3.34E-05
<i>Coq7</i>	-1.28	4.74E-04	-1.81	7.57E-05	-1.65	5.43E-05
<i>Corin</i>	1.03	7.52E-04	1.15	7.89E-04	1.25	1.49E-04

<i>Cpd</i>	-2.82	3.05E-05	-3.38	1.80E-05	-4.61	3.58E-07
<i>Cpne1</i>	1.16	4.51E-08	1.10	1.66E-07	1.27	1.26E-08
<i>Cpq</i>	-1.78	6.87E-04	-2.14	4.10E-04	-1.42	3.08E-03
<i>Cpsf4l</i>	1.09	6.77E-03	1.42	2.50E-03	1.46	8.38E-04
<i>Cpt2</i>	0.88	6.47E-05	1.39	3.84E-06	1.07	1.07E-05
<i>Crbn</i>	-1.61	3.72E-07	-1.71	6.09E-07	-1.24	2.39E-06
<i>Crebl2</i>	2.11	3.03E-09	2.37	3.96E-09	1.57	7.05E-09
<i>Crebrf</i>	-1.49	1.59E-07	-1.50	3.92E-07	-1.08	1.59E-06
<i>Creg1</i>	-1.42	1.16E-07	-1.45	2.49E-07	-1.70	1.69E-08
<i>Crem</i>	-2.36	3.32E-06	-2.83	2.04E-06	-4.09	2.58E-08
<i>Crip2</i>	-2.34	1.50E-05	-2.19	6.94E-05	-2.11	3.05E-05
<i>Crlf1</i>	-1.80	3.89E-02	-1.95	4.47E-02	-1.74	4.27E-02
<i>Crnk1l</i>	-1.02	1.04E-07	-1.05	2.13E-07	-1.13	2.69E-08
<i>Crtam</i>	-1.67	1.57E-05	-1.90	1.44E-05	-1.60	1.88E-05
<i>Cry2</i>	-1.21	6.36E-07	-1.52	2.93E-07	-1.40	1.38E-07
<i>Crybg3</i>	1.97	6.25E-07	1.56	1.19E-05	2.11	2.58E-07
<i>Cryz1l</i>	1.27	4.28E-07	1.49	3.22E-07	1.66	3.26E-08
<i>Csad</i>	0.97	9.80E-07	1.34	2.01E-07	1.22	1.04E-07
<i>Csrp1</i>	-1.62	3.42E-08	-1.91	2.97E-08	-1.96	4.33E-09
<i>Cst7</i>	-1.49	8.41E-04	-1.79	4.86E-04	-1.81	1.60E-04
<i>Ctdp1</i>	-1.49	1.64E-08	-1.62	2.41E-08	-1.56	5.22E-09
<i>Cth</i>	-1.95	1.33E-03	-2.29	9.63E-04	-1.89	1.51E-03
<i>Ctla2a</i>	-1.14	4.12E-02	-1.62	1.22E-02	-4.86	8.41E-07
<i>Ctla2b</i>	-3.27	2.08E-03	-4.15	8.59E-04	-5.42	3.48E-05
<i>Ctnn1l</i>	-0.62	6.48E-03	-1.03	4.20E-04	-1.39	1.13E-05
<i>Ctnnbip1</i>	-2.42	3.82E-04	-2.33	1.22E-03	-2.18	7.61E-04
<i>Ctsk</i>	1.69	3.94E-04	1.67	1.06E-03	1.34	2.03E-03
<i>Ctsl</i>	-1.02	6.33E-06	-1.19	4.54E-06	-1.30	6.13E-07
<i>Cul2</i>	-1.16	2.52E-07	-1.30	2.88E-07	-1.29	6.93E-08
<i>Cwc25</i>	-1.24	1.53E-06	-1.50	8.69E-07	-1.37	4.95E-07
<i>Cx3cr1</i>	-2.89	3.06E-03	-3.78	1.03E-03	-4.63	7.57E-05
<i>Cxcr4</i>	-2.13	2.85E-07	-2.46	2.48E-07	-1.99	3.48E-07
<i>Cxcr5</i>	-1.11	2.19E-02	-1.89	1.65E-03	-1.09	2.21E-02
<i>Cxxc5</i>	1.64	2.99E-04	1.82	3.31E-04	2.46	8.83E-06
<i>Cyb561a3</i>	0.94	2.31E-06	1.25	6.02E-07	1.26	1.47E-07
<i>Cystm1</i>	-2.85	3.22E-04	-2.93	6.26E-04	-3.81	2.54E-05
<i>D130017N08Rik</i>	2.11	2.63E-07	2.24	4.59E-07	2.73	2.28E-08
<i>D15Ertd621e</i>	-1.31	2.50E-07	-1.46	2.96E-07	-1.50	5.51E-08

<i>D230017M19Rik</i>	1.67	2.18E-03	1.92	1.83E-03	1.93	7.04E-04
<i>D2hgdh</i>	1.22	9.27E-09	1.17	2.80E-08	1.57	6.92E-10
<i>D330041H03Rik</i>	0.82	3.82E-06	1.07	1.23E-06	1.19	1.24E-07
<i>D3Ertd751e</i>	1.04	5.54E-06	1.13	7.49E-06	1.30	6.37E-07
<i>D6Ertd474e</i>	1.70	5.64E-04	1.37	5.54E-03	2.34	3.72E-05
<i>D730003I15Rik</i>	1.13	8.29E-04	0.92	7.20E-03	1.11	8.28E-04
<i>D8Ertd82e</i>	-1.12	1.23E-05	-1.44	4.11E-06	-2.49	1.29E-08
<i>D930048N14Rik</i>	2.19	5.45E-06	2.05	2.61E-05	1.81	2.30E-05
<i>Daf2</i>	2.32	1.87E-05	3.04	5.25E-06	2.54	7.12E-06
<i>Dag1</i>	1.10	4.79E-08	1.04	1.79E-07	2.56	9.44E-11
<i>Dand5</i>	3.16	3.09E-07	3.26	6.48E-07	3.59	7.45E-08
<i>Dapp1</i>	-1.18	1.38E-07	-1.16	3.96E-07	-1.47	1.49E-08
<i>Dbf4</i>	-1.64	9.23E-07	-1.89	8.08E-07	-2.01	1.18E-07
<i>Dbn1</i>	-1.56	6.84E-03	-1.65	9.99E-03	-2.08	8.93E-04
<i>Dbp</i>	1.94	2.08E-09	2.01	3.71E-09	1.34	5.81E-09
<i>Dcakd</i>	1.05	4.37E-04	1.66	2.67E-05	1.31	6.10E-05
<i>Dcdc2b</i>	1.79	7.40E-03	1.91	9.73E-03	2.72	3.58E-04
<i>Dclre1a</i>	-1.32	3.74E-05	-1.06	5.26E-04	-1.47	1.19E-05
<i>Dclre1c</i>	-1.14	2.23E-07	-1.18	4.59E-07	-1.34	4.04E-08
<i>Dcp1b</i>	1.11	9.89E-08	1.12	2.34E-07	1.28	1.93E-08
<i>Ddhd1</i>	-0.95	1.85E-07	-1.17	1.08E-07	-1.17	2.28E-08
<i>Ddias</i>	-1.91	2.68E-05	-2.65	4.72E-06	-2.37	3.46E-06
<i>Ddx3x</i>	-1.24	6.50E-07	-1.38	7.28E-07	-1.62	5.09E-08
<i>Decr1</i>	0.99	5.21E-07	1.06	7.73E-07	1.15	1.03E-07
<i>Deqs2</i>	1.06	3.79E-03	1.88	1.29E-04	2.39	5.32E-06
<i>Dennd1c</i>	0.87	3.05E-07	1.07	1.68E-07	1.31	7.98E-09
<i>Dennd4a</i>	-2.26	3.64E-07	-2.52	4.13E-07	-2.81	4.15E-08
<i>Dennd6a</i>	1.08	1.37E-07	1.13	2.40E-07	1.26	2.44E-08
<i>Depdc1b</i>	1.29	6.62E-04	0.98	9.01E-03	1.03	2.98E-03
<i>Dgat1</i>	-1.89	1.03E-08	-2.20	1.02E-08	-2.24	1.36E-09
<i>Dgat2</i>	-1.15	1.36E-02	-1.17	2.35E-02	-1.98	3.17E-04
<i>Dguok</i>	1.35	2.63E-09	1.53	3.71E-09	1.66	2.27E-10
<i>Dhcr24</i>	1.66	6.03E-09	1.84	8.39E-09	1.26	1.47E-08
<i>Dhdh</i>	1.06	1.58E-02	1.12	2.14E-02	1.31	4.22E-03
<i>Dhrs1</i>	1.02	2.96E-07	0.95	1.34E-06	1.25	3.67E-08
<i>Dhrs3</i>	-2.07	1.96E-04	-2.62	7.34E-05	-3.55	1.65E-06
<i>Dhrs7</i>	1.26	9.38E-07	1.11	7.43E-06	1.37	3.41E-07
<i>Dhx38</i>	-1.23	1.03E-08	-1.36	1.40E-08	-1.36	2.08E-09



<i>Dhx40</i>	-1.32	8.58E-08	-1.47	1.02E-07	-1.74	6.57E-09
<i>Dhx8</i>	-1.07	4.39E-08	-1.16	6.76E-08	-1.14	1.49E-08
<i>Dio2</i>	-1.18	2.50E-02	-1.65	7.45E-03	-1.09	3.50E-02
<i>Dixdc1</i>	2.26	3.04E-05	3.14	5.21E-06	2.87	3.22E-06
<i>Dlk1</i>	-1.26	2.98E-02	-3.05	1.97E-04	-2.40	4.58E-04
<i>Dmbt1</i>	1.26	3.27E-03	1.45	2.70E-03	1.72	2.88E-04
<i>Dnah17</i>	1.44	5.78E-08	1.31	3.05E-07	1.42	3.72E-08
<i>Dnajb4</i>	-1.41	3.36E-06	-1.57	3.79E-06	-1.71	4.91E-07
<i>Dnajb6</i>	-1.33	7.35E-08	-1.43	1.12E-07	-1.41	2.74E-08
<i>Dnajb9</i>	-1.85	2.33E-05	-2.22	1.36E-05	-2.20	4.29E-06
<i>Dnajc12</i>	-0.57	4.78E-04	-1.01	1.16E-05	-1.26	4.95E-07
<i>Dntt</i>	1.22	2.49E-07	1.06	2.13E-06	2.15	2.32E-09
<i>Dnttip2</i>	-0.97	4.29E-06	-1.07	5.16E-06	-1.24	4.16E-07
<i>Doc2g</i>	1.07	9.14E-05	0.86	1.21E-03	1.07	7.82E-05
<i>Dock4</i>	-1.47	2.56E-06	-1.31	1.90E-05	-2.59	1.83E-08
<i>Dock6</i>	1.12	6.50E-07	1.07	2.70E-06	1.23	2.18E-07
<i>Dok3</i>	1.24	3.97E-03	1.75	7.74E-04	1.61	5.37E-04
<i>Donson</i>	-1.11	1.34E-07	-1.13	2.98E-07	-1.08	1.03E-07
<i>Dos</i>	-1.02	3.24E-06	-1.37	7.93E-07	-1.52	8.20E-08
<i>Dot1l</i>	-0.94	2.10E-07	-1.04	2.48E-07	-1.16	2.53E-08
<i>Dpml</i>	-1.15	4.55E-03	-2.43	3.90E-05	-1.91	9.31E-05
<i>Dqx1</i>	0.96	5.51E-05	1.10	4.57E-05	1.59	5.80E-07
<i>Dscc1</i>	-1.22	2.96E-04	-0.85	7.93E-03	-1.56	3.29E-05
<i>Dst_1</i>	3.34	3.43E-08	3.48	6.57E-08	1.34	4.04E-05
<i>Dtl</i>	-3.48	3.01E-03	-5.02	4.89E-04	-7.33	7.04E-06
<i>Dtnbp1</i>	-1.10	3.66E-08	-1.28	3.44E-08	-1.52	1.93E-09
<i>Dtx1</i>	-1.94	3.20E-07	-2.42	1.65E-07	-2.86	1.03E-08
<i>Dtx4</i>	-2.82	7.40E-06	-3.59	2.73E-06	-1.45	1.39E-03
<i>Dusp1</i>	-2.22	1.62E-06	-2.87	5.44E-07	-3.11	7.02E-08
<i>Dusp10</i>	-2.74	5.65E-06	-3.62	1.52E-06	-4.04	1.59E-07
<i>Dusp14</i>	-1.68	8.72E-03	-2.60	9.96E-04	-2.19	1.35E-03
<i>Dusp16</i>	-2.92	6.60E-06	-3.73	2.40E-06	-4.86	6.75E-08
<i>Dusp19</i>	1.58	6.81E-03	2.14	1.99E-03	1.59	6.18E-03
<i>Dusp4</i>	-3.08	3.45E-04	-4.72	2.82E-05	-5.41	2.59E-06
<i>Dusp5</i>	-2.12	5.88E-06	-2.77	1.78E-06	-4.63	7.84E-09
<i>Dusp6</i>	-2.26	5.36E-06	-3.00	1.40E-06	-3.20	2.11E-07
<i>Dusp7</i>	2.48	2.21E-09	2.47	5.43E-09	2.65	3.89E-10
<i>Dusp8</i>	-3.13	3.58E-03	-5.10	2.36E-04	-5.29	5.97E-05

<i>Dynlt1c</i>	1.04	2.08E-04	1.15	2.31E-04	1.52	7.26E-06
<i>Dyrk3</i>	-1.73	2.14E-02	-1.62	4.93E-02	-2.33	3.31E-03
<i>Dzip3</i>	1.67	7.58E-08	1.94	6.99E-08	1.91	1.55E-08
<i>E030042O20Rik</i>	1.41	1.38E-03	1.10	1.40E-02	2.09	5.37E-05
<i>E2f1</i>	-1.09	6.33E-07	-1.29	4.44E-07	-1.46	4.02E-08
<i>E2f7</i>	-2.70	9.67E-04	-3.74	1.96E-04	-5.04	5.04E-06
<i>E330020D12Rik</i>	1.00	1.56E-02	1.61	1.68E-03	1.87	1.98E-04
<i>E330034G19Rik</i>	1.24	2.32E-03	1.65	6.92E-04	1.56	3.99E-04
<i>Ebpl</i>	1.15	1.17E-06	1.05	6.87E-06	1.07	1.71E-06
<i>Edaradd</i>	1.76	4.02E-04	1.16	1.38E-02	2.04	1.05E-04
<i>Eeal</i>	-1.07	5.77E-05	-1.20	5.96E-05	-1.58	1.70E-06
<i>Eed</i>	-0.95	3.22E-08	-1.05	4.27E-08	-1.03	9.15E-09
<i>Eepd1</i>	-1.56	1.13E-03	-1.47	3.75E-03	-2.48	2.36E-05
<i>Efcab5</i>	1.88	1.42E-05	1.98	2.56E-05	1.87	1.28E-05
<i>Efcab7</i>	1.23	6.98E-03	1.20	1.51E-02	1.10	1.24E-02
<i>Efcab9</i>	1.18	2.66E-02	2.25	9.86E-04	1.78	2.09E-03
<i>Efnb2</i>	-1.84	4.68E-04	-2.34	1.79E-04	-2.53	3.12E-05
<i>Efnb3</i>	2.28	1.58E-06	2.15	7.20E-06	2.48	5.90E-07
<i>Egf</i>	-1.41	6.03E-05	-1.74	2.79E-05	-1.49	3.26E-05
<i>Egfr</i>	4.60	1.60E-06	3.76	2.33E-05	1.94	1.55E-03
<i>Egln3</i>	-1.08	1.87E-04	-1.21	1.88E-04	-1.29	3.75E-05
<i>Egr1</i>	-2.57	9.16E-06	-3.42	2.28E-06	-3.46	5.58E-07
<i>Egr2</i>	-2.99	1.05E-03	-4.62	8.83E-05	-5.32	8.42E-06
<i>Egr3</i>	-3.03	1.72E-04	-4.56	1.56E-05	-5.18	1.51E-06
<i>Ehd2</i>	-1.31	2.80E-02	-1.53	2.22E-02	-1.77	4.55E-03
<i>Ehd4</i>	-2.29	3.22E-06	-2.77	1.82E-06	-3.88	2.90E-08
<i>Eif2ak3</i>	-2.15	1.53E-07	-2.42	1.66E-07	-3.01	7.30E-09
<i>Eif3j1</i>	-1.01	2.90E-06	-1.02	7.91E-06	-1.30	2.66E-07
<i>Eif5</i>	-1.05	1.38E-07	-1.11	2.32E-07	-1.09	6.51E-08
<i>Elavl1</i>	-1.01	4.12E-08	-1.05	7.79E-08	-1.06	1.56E-08
<i>Ell2</i>	-2.59	2.12E-06	-3.35	7.22E-07	-3.50	1.26E-07
<i>Elmsan1</i>	-2.37	1.77E-07	-2.99	8.76E-08	-3.14	1.27E-08
<i>Elovl2</i>	-3.13	4.30E-03	-2.62	2.32E-02	-3.60	1.52E-03
<i>Elovl4</i>	-2.94	1.32E-03	-3.23	1.54E-03	-3.93	1.23E-04
<i>Elp5</i>	-0.88	2.90E-06	-1.11	1.15E-06	-1.03	5.41E-07
<i>Emc3</i>	-1.17	6.12E-08	-1.19	1.37E-07	-1.18	3.27E-08
<i>Emc9</i>	1.89	1.59E-08	2.03	2.49E-08	2.16	2.79E-09
<i>Eme1</i>	-1.91	3.97E-04	-2.17	3.64E-04	-2.35	6.60E-05

<i>Emid1</i>	-1.08	1.20E-03	-0.86	1.15E-02	-1.40	1.50E-04
<i>Emilin1</i>	-1.18	2.35E-05	-1.33	2.27E-05	-1.22	1.45E-05
<i>Eml4</i>	-1.40	3.56E-08	-1.54	4.60E-08	-1.68	4.91E-09
<i>Emp1</i>	-2.80	2.01E-03	-4.31	1.90E-04	-6.14	2.97E-06
<i>Endod1</i>	-1.20	4.79E-04	-1.42	3.24E-04	-1.31	2.20E-04
<i>Endou</i>	-1.80	1.74E-02	-2.68	3.14E-03	-2.27	4.06E-03
<i>Enkur</i>	-3.25	8.35E-05	-4.50	1.48E-05	-3.96	1.31E-05
<i>Epas1</i>	-1.28	1.06E-07	-1.66	4.55E-08	-2.30	9.34E-10
<i>Epc2</i>	-1.28	7.06E-08	-1.31	1.49E-07	-1.17	8.40E-08
<i>Eprs</i>	-0.94	3.40E-09	-1.06	4.19E-09	-1.27	1.66E-10
<i>Eps15</i>	1.04	1.30E-08	1.12	1.96E-08	1.31	1.10E-09
<i>Ern1</i>	-1.24	5.93E-07	-1.20	2.14E-06	-1.80	2.03E-08
<i>Errfi1</i>	-1.14	8.48E-05	-1.45	3.08E-05	-1.88	1.01E-06
<i>Espn</i>	2.13	2.84E-08	2.31	4.36E-08	1.99	2.30E-08
<i>Etf1</i>	-1.16	3.52E-07	-1.29	4.04E-07	-1.32	8.01E-08
<i>Ets2</i>	-2.12	3.90E-07	-2.68	1.73E-07	-2.32	1.29E-07
<i>Evpl</i>	-1.38	2.85E-04	-1.49	3.80E-04	-1.28	4.61E-04
<i>Exo1</i>	-2.06	1.45E-04	-2.66	4.65E-05	-2.60	1.75E-05
<i>Exoc3l</i>	0.84	8.07E-03	1.29	1.00E-03	1.55	8.50E-05
<i>Exoc5</i>	-0.96	9.07E-07	-1.02	1.51E-06	-1.13	1.67E-07
<i>Extl2</i>	-1.21	1.77E-05	-1.43	1.25E-05	-1.86	3.54E-07
<i>Eya2</i>	-1.25	1.05E-04	-1.11	6.33E-04	-1.96	1.90E-06
<i>F2r</i>	-1.03	1.39E-06	-1.41	2.91E-07	-1.18	3.26E-07
<i>F2rl3</i>	2.33	5.45E-07	1.97	5.91E-06	1.23	9.68E-05
<i>F730043M19Rik</i>	-1.26	5.93E-03	-1.26	1.19E-02	-2.30	6.09E-05
<i>F730311O21Rik</i>	1.56	8.69E-06	1.66	1.38E-05	4.27	2.21E-09
<i>F830016B08Rik</i>	1.48	6.05E-03	2.41	4.41E-04	4.00	2.04E-06
<i>Fads1</i>	1.37	3.62E-07	1.41	7.84E-07	1.36	2.68E-07
<i>Fam102a</i>	1.05	7.04E-08	1.15	9.21E-08	1.40	4.87E-09
<i>Fam103a1</i>	-1.29	1.97E-07	-1.27	6.08E-07	-1.26	1.62E-07
<i>Fam107b</i>	-1.96	4.87E-07	-2.37	2.93E-07	-1.81	6.75E-07
<i>Fam111a</i>	0.73	1.39E-07	1.01	4.11E-08	1.19	2.41E-09
<i>Fam122b</i>	1.11	3.47E-08	1.23	4.48E-08	1.57	1.50E-09
<i>Fam160a2</i>	1.26	2.18E-08	1.33	3.89E-08	1.29	8.85E-09
<i>Fam161b</i>	-1.37	6.02E-05	-1.15	5.83E-04	-1.02	5.52E-04
<i>Fam169b</i>	1.05	8.35E-08	1.16	1.05E-07	1.28	1.06E-08
<i>Fam173a</i>	1.25	1.50E-07	1.23	4.38E-07	1.27	8.22E-08
<i>Fam173b</i>	1.46	3.12E-07	1.68	2.88E-07	1.99	1.83E-08

<i>Fam186b</i>	1.67	3.24E-04	1.91	2.77E-04	1.33	1.63E-03
<i>Fam193b</i>	1.00	1.28E-07	1.11	1.62E-07	1.15	2.71E-08
<i>Fam213a</i>	1.42	1.78E-07	1.40	5.23E-07	1.20	4.87E-07
<i>Fam222a</i>	-1.56	3.67E-05	-2.12	7.23E-06	-1.68	1.58E-05
<i>Fam53a</i>	1.12	5.83E-08	1.13	1.38E-07	1.40	6.27E-09
<i>Fam83d</i>	-2.72	9.14E-04	-4.17	8.03E-05	-3.27	1.96E-04
<i>Fam89a</i>	1.12	2.43E-06	1.07	9.84E-06	1.48	1.72E-07
<i>Fancg</i>	1.07	3.42E-06	0.99	1.71E-05	1.35	3.41E-07
<i>Fanci</i>	-1.74	8.34E-07	-1.90	1.15E-06	-1.10	3.50E-05
<i>Fancm</i>	-1.48	4.46E-08	-1.50	1.03E-07	-1.75	7.34E-09
<i>Far2</i>	1.38	1.05E-03	2.07	1.09E-04	1.20	2.43E-03
<i>Fasl</i>	-1.73	6.22E-06	-1.99	5.26E-06	-2.43	2.56E-07
<i>Fastkd1</i>	1.28	1.81E-07	1.39	2.54E-07	1.45	4.32E-08
<i>Fbxl12os</i>	1.19	9.19E-05	1.04	6.64E-04	2.04	7.45E-07
<i>Fbxl14</i>	-1.62	2.08E-02	-1.53	4.68E-02	-1.40	4.00E-02
<i>Fbxl18</i>	1.62	1.47E-08	1.75	2.16E-08	2.02	1.39E-09
<i>Fbxl8</i>	1.33	6.11E-07	1.25	2.76E-06	1.51	1.47E-07
<i>Fbxo10</i>	1.53	3.04E-06	1.26	4.24E-05	1.44	4.07E-06
<i>Fbxo17</i>	3.59	4.70E-09	3.30	1.73E-08	2.58	1.54E-08
<i>Fbxo27</i>	1.05	1.21E-02	1.43	3.57E-03	1.70	4.12E-04
<i>Fbxo32</i>	-1.60	1.70E-07	-1.91	1.21E-07	-1.51	1.80E-07
<i>Fbxo33</i>	-1.50	6.93E-07	-1.65	8.68E-07	-1.54	4.05E-07
<i>Fbxo34</i>	-1.75	5.92E-08	-2.16	3.93E-08	-2.13	7.83E-09
<i>Fbxo44</i>	-1.28	1.50E-02	-1.48	1.24E-02	-2.50	1.23E-04
<i>Fbxo8</i>	-1.31	8.68E-08	-1.44	1.10E-07	-1.34	4.35E-08
<i>Fcer1g</i>	1.14	1.52E-02	1.07	3.69E-02	1.17	1.23E-02
<i>Fen1</i>	-1.42	1.67E-08	-1.71	1.40E-08	-1.57	3.73E-09
<i>Fer1l5</i>	1.36	1.30E-05	1.52	1.39E-05	1.67	1.83E-06
<i>Fgf22</i>	-1.81	1.12E-02	-1.58	4.05E-02	-1.75	1.25E-02
<i>Fgfbp3</i>	0.89	7.68E-03	1.46	5.53E-04	1.31	4.61E-04
<i>Fgfr1</i>	-2.33	3.86E-04	-3.07	1.08E-04	-2.61	1.35E-04
<i>Fgfr3</i>	-2.25	3.94E-04	-2.35	6.72E-04	-2.75	6.87E-05
<i>Fgfrl1</i>	-0.86	8.81E-04	-1.03	5.11E-04	-1.38	1.64E-05
<i>Fgr</i>	-2.43	3.84E-03	-1.83	3.60E-02	-2.18	7.08E-03
<i>Fhod1</i>	1.36	5.72E-07	1.27	2.77E-06	1.46	2.16E-07
<i>Figl1</i>	-2.29	5.59E-05	-2.83	2.54E-05	-1.67	6.22E-04
<i>Fkbp2</i>	0.99	6.25E-05	1.29	1.81E-05	1.07	2.67E-05
<i>Fkbp1</i>	1.12	2.04E-04	0.82	4.40E-03	1.54	1.21E-05

<i>Fktn</i>	1.19	4.38E-06	1.22	9.96E-06	1.30	1.62E-06
<i>Flad1</i>	1.21	3.95E-08	1.29	6.26E-08	1.59	2.79E-09
<i>Flcn</i>	-1.23	2.47E-08	-1.39	2.94E-08	-1.18	1.66E-08
<i>Flot1</i>	1.14	5.29E-05	1.11	1.70E-04	1.28	1.65E-05
<i>Fmnl3</i>	-1.12	2.06E-08	-1.29	2.13E-08	-1.28	3.65E-09
<i>Fmo5</i>	1.80	3.49E-08	2.05	3.87E-08	2.39	2.35E-09
<i>Fn3k</i>	1.76	2.05E-06	1.11	2.50E-04	1.98	5.73E-07
<i>Fn3krp</i>	1.01	5.53E-06	0.88	4.72E-05	1.43	2.20E-07
<i>Fndc4</i>	-1.83	2.41E-02	-2.64	5.82E-03	-2.24	7.23E-03
<i>Fosb</i>	-3.43	2.15E-03	-5.77	9.94E-05	-6.69	8.85E-06
<i>Fosl2</i>	-3.27	1.68E-04	-4.88	1.62E-05	-7.04	1.96E-07
<i>Foxd2os</i>	1.54	4.97E-07	1.52	1.54E-06	1.57	3.12E-07
<i>Foxj3</i>	-0.99	2.90E-07	-1.07	4.54E-07	-1.02	1.63E-07
<i>Foxq1</i>	-3.05	2.68E-03	-4.60	3.07E-04	-3.23	1.66E-03
<i>Fra10ac1</i>	1.14	4.62E-07	1.24	6.29E-07	1.18	2.53E-07
<i>Frat2</i>	-1.53	2.68E-07	-1.90	1.44E-07	-1.80	4.92E-08
<i>Frmd4b</i>	-2.69	1.17E-05	-3.51	3.34E-06	-3.53	8.84E-07
<i>Frmd6</i>	-1.03	1.60E-06	-1.21	1.18E-06	-1.36	1.12E-07
<i>Frmd8</i>	1.41	4.69E-09	1.43	8.76E-09	1.58	6.76E-10
<i>Frmpd1</i>	-2.19	1.11E-02	-3.25	1.85E-03	-3.32	6.07E-04
<i>Frs3</i>	0.90	5.47E-03	1.04	4.76E-03	1.21	6.45E-04
<i>Fscn1</i>	-2.17	1.28E-02	-2.00	3.48E-02	-1.82	3.00E-02
<i>Fst</i>	-3.21	8.85E-04	-3.99	4.12E-04	-3.91	1.69E-04
<i>Fus</i>	-1.56	7.95E-08	-1.69	1.13E-07	-1.78	1.69E-08
<i>Fut7</i>	2.16	6.46E-04	2.90	1.59E-04	1.29	1.70E-02
<i>Fxyd7</i>	2.18	9.41E-03	2.00	2.78E-02	2.50	3.67E-03
<i>Fycol</i>	1.30	7.06E-08	1.45	8.75E-08	1.67	6.46E-09
<i>G430095P16Rik</i>	3.66	1.78E-05	2.81	3.95E-04	2.66	2.17E-04
<i>Gab3</i>	2.30	2.52E-08	2.18	8.82E-08	1.32	1.20E-06
<i>Gabarapl1</i>	-1.34	2.14E-07	-1.53	2.16E-07	-1.70	2.20E-08
<i>Gabbr1</i>	0.93	4.56E-08	1.04	5.78E-08	1.03	1.19E-08
<i>Gabpb1</i>	-2.24	1.14E-07	-2.61	9.91E-08	-2.59	2.24E-08
<i>Gadd45b</i>	-2.76	1.51E-06	-3.53	5.62E-07	-2.31	5.44E-06
<i>Galnt11</i>	1.03	7.67E-08	1.08	1.43E-07	1.10	2.71E-08
<i>Gareml</i>	-1.83	2.49E-02	-2.32	1.28E-02	-1.97	1.60E-02
<i>Gata1</i>	2.73	3.48E-07	3.04	4.05E-07	3.84	1.55E-08
<i>Gbp11_1</i>	2.56	5.64E-08	2.85	7.05E-08	2.49	3.95E-08
<i>Gchl</i>	-2.67	7.35E-07	-3.41	2.87E-07	-4.10	1.62E-08

<i>Gdap2</i>	-0.96	1.08E-07	-1.12	9.49E-08	-1.21	1.11E-08
<i>Gdpd3</i>	2.07	3.99E-05	2.01	1.35E-04	1.88	7.71E-05
<i>Gem</i>	-3.15	8.47E-04	-4.18	2.33E-04	-5.05	1.58E-05
<i>Gemin8</i>	0.63	4.89E-03	1.19	1.06E-04	1.22	2.84E-05
<i>Gfi1</i>	-1.83	2.34E-07	-2.21	1.50E-07	-2.48	1.42E-08
<i>Gfod1</i>	-2.29	5.71E-07	-2.73	3.77E-07	-3.74	8.23E-09
<i>Gfpt2</i>	-2.60	5.21E-05	-2.57	1.47E-04	-2.81	2.29E-05
<i>Ggt1</i>	-2.08	1.65E-05	-2.30	1.90E-05	-2.72	1.29E-06
<i>Ghr</i>	1.61	6.53E-03	2.77	3.23E-04	3.34	2.34E-05
<i>Gimap6</i>	-1.17	4.00E-07	-1.29	4.84E-07	-1.02	8.85E-07
<i>Ginm1</i>	-0.96	5.44E-08	-1.03	8.53E-08	-1.12	9.44E-09
<i>Gipc1</i>	1.06	2.37E-06	1.11	4.58E-06	1.09	1.44E-06
<i>Gk5</i>	-1.16	1.63E-06	-1.27	2.13E-06	-1.36	3.15E-07
<i>Gkap1</i>	1.19	1.77E-02	1.33	1.83E-02	1.30	1.03E-02
<i>Gla</i>	-2.54	2.23E-07	-3.28	9.10E-08	-3.51	1.15E-08
<i>Glce</i>	-1.19	1.12E-06	-1.39	8.51E-07	-1.52	1.05E-07
<i>Gli1</i>	1.72	6.85E-05	1.49	5.54E-04	1.75	5.22E-05
<i>Glipr2</i>	2.06	2.09E-08	2.01	5.91E-08	1.29	4.08E-07
<i>Gls2</i>	-3.29	5.79E-03	-4.89	8.39E-04	-5.09	2.26E-04
<i>Glt8d1</i>	1.67	4.21E-07	1.80	6.09E-07	2.10	4.40E-08
<i>Gltscr11</i>	1.28	6.80E-07	1.21	3.02E-06	1.48	1.43E-07
<i>Gm10033</i>	1.66	7.47E-05	2.03	3.63E-05	1.75	4.03E-05
<i>Gm10044</i>	1.25	5.40E-03	1.21	1.27E-02	1.49	1.52E-03
<i>Gm10069</i>	1.80	2.70E-06	2.15	1.69E-06	2.59	9.11E-08
<i>Gm10125</i>	-2.45	1.42E-05	-2.46	3.66E-05	-2.07	5.02E-05
<i>Gm10311</i>	1.24	1.30E-04	1.11	7.55E-04	2.01	1.77E-06
<i>Gm10505</i>	1.54	1.11E-04	0.78	2.43E-02	2.87	4.52E-07
<i>Gm10516</i>	1.66	6.94E-03	2.74	4.78E-04	2.41	4.73E-04
<i>Gm10521</i>	2.49	1.65E-09	2.74	1.95E-09	2.48	3.36E-10
<i>Gm10548</i>	1.28	1.55E-04	1.43	1.65E-04	1.39	6.97E-05
<i>Gm10557</i>	-1.79	7.51E-07	-1.52	7.97E-06	-1.71	8.10E-07
<i>Gm10640</i>	1.38	1.95E-04	1.66	1.07E-04	2.81	3.66E-07
<i>Gm10644</i>	1.56	4.48E-03	2.17	1.01E-03	1.91	1.04E-03
<i>Gm10658</i>	-1.82	1.57E-03	-1.18	3.87E-02	-2.29	2.50E-04
<i>Gm10676</i>	1.28	1.33E-05	1.37	2.09E-05	1.27	1.23E-05
<i>Gm10767</i>	1.13	1.40E-03	1.63	2.08E-04	1.29	4.48E-04
<i>Gm10814</i>	1.50	6.42E-04	2.69	1.50E-05	2.50	8.23E-06
<i>Gm11110</i>	0.83	1.50E-03	1.21	2.10E-04	1.04	2.44E-04

<i>Gm11346</i>	2.28	8.75E-07	2.07	5.33E-06	2.90	8.17E-08
<i>Gm11427</i>	2.28	8.67E-09	2.52	1.16E-08	2.82	8.30E-10
<i>Gm11537</i>	1.37	1.31E-05	1.89	2.45E-06	1.37	1.11E-05
<i>Gm11707</i>	-2.34	2.59E-07	-2.75	2.07E-07	-2.25	2.48E-07
<i>Gm11767</i>	0.78	2.99E-02	1.13	7.25E-03	1.02	6.22E-03
<i>Gm11769</i>	-1.74	3.24E-04	-2.38	6.71E-05	-2.69	7.34E-06
<i>Gm11978</i>	-1.50	2.27E-02	-2.12	6.00E-03	-2.30	1.49E-03
<i>Gm12107</i>	1.53	5.52E-03	1.92	2.56E-03	1.67	2.76E-03
<i>Gm12121</i>	1.04	1.11E-02	1.28	6.21E-03	1.58	6.17E-04
<i>Gm12216</i>	0.71	6.04E-04	1.02	8.87E-05	3.23	2.41E-09
<i>Gm12319</i>	0.99	8.24E-04	1.10	8.82E-04	1.42	4.25E-05
<i>Gm12367</i>	-1.88	4.55E-03	-2.45	1.68E-03	-1.49	1.69E-02
<i>Gm12709</i>	-2.00	5.32E-03	-3.97	7.73E-05	-3.38	9.77E-05
<i>Gm12743</i>	2.88	2.76E-07	2.54	2.06E-06	3.07	1.11E-07
<i>Gm12847</i>	0.89	2.11E-03	1.20	5.32E-04	1.32	9.11E-05
<i>Gm12942</i>	1.68	8.77E-06	1.76	1.67E-05	2.03	1.41E-06
<i>Gm13270</i>	1.79	3.37E-03	2.24	1.56E-03	2.31	4.79E-04
<i>Gm13307</i>	1.28	2.11E-02	1.38	2.59E-02	1.82	2.31E-03
<i>Gm13387</i>	2.41	2.38E-04	2.41	5.74E-04	2.91	4.31E-05
<i>Gm13421</i>	1.71	6.80E-04	2.18	2.56E-04	2.79	1.04E-05
<i>Gm14027</i>	1.31	8.10E-04	2.11	4.72E-05	1.85	4.53E-05
<i>Gm14085</i>	2.12	1.60E-08	2.09	4.44E-08	2.18	5.90E-09
<i>Gm14168</i>	-1.60	6.09E-05	-1.93	3.35E-05	-1.92	1.07E-05
<i>Gm14308</i>	1.12	4.18E-07	1.46	1.49E-07	1.32	7.50E-08
<i>Gm14403</i>	0.93	2.06E-03	1.05	1.91E-03	1.01	1.00E-03
<i>Gm14420</i>	1.11	1.16E-03	0.81	1.71E-02	1.17	7.03E-04
<i>Gm14435</i>	1.07	1.04E-03	0.86	9.41E-03	1.32	1.83E-04
<i>Gm14455</i>	1.55	1.46E-04	2.10	3.11E-05	2.17	7.02E-06
<i>Gm14634</i>	-1.66	6.71E-03	-1.88	6.22E-03	-1.54	9.58E-03
<i>Gm14703</i>	1.56	7.56E-04	1.21	9.15E-03	2.20	4.25E-05
<i>Gm15008</i>	-2.25	3.14E-03	-1.62	3.90E-02	-2.19	3.42E-03
<i>Gm15327</i>	-2.10	1.45E-02	-2.68	6.68E-03	-2.28	8.16E-03
<i>Gm15340</i>	-3.81	4.27E-06	-5.77	3.97E-07	-5.19	2.35E-07
<i>Gm15506</i>	2.22	3.71E-03	3.83	1.58E-04	3.70	7.06E-05
<i>Gm15545</i>	0.82	1.72E-03	1.34	9.43E-05	1.14	1.21E-04
<i>Gm15674</i>	2.19	6.04E-09	2.58	6.05E-09	2.73	5.15E-10
<i>Gm15675</i>	3.07	3.85E-04	2.56	3.25E-03	3.28	2.01E-04
<i>Gm15706</i>	-1.21	5.20E-04	-1.29	7.84E-04	-1.24	3.86E-04

<i>Gm15708</i>	2.00	9.73E-05	2.10	1.69E-04	2.66	7.51E-06
<i>Gm15728</i>	-2.71	5.05E-03	-2.09	3.89E-02	-3.18	1.54E-03
<i>Gm15787</i>	-1.69	1.46E-02	-1.59	3.52E-02	-1.31	4.82E-02
<i>Gm15834</i>	1.32	2.36E-03	1.19	9.16E-03	1.71	3.04E-04
<i>Gm15850</i>	2.45	1.05E-03	1.98	9.23E-03	3.53	5.09E-05
<i>Gm16001</i>	-1.74	1.82E-07	-1.84	3.00E-07	-1.74	1.18E-07
<i>Gm1604b</i>	2.20	1.17E-03	1.67	1.43E-02	2.07	1.66E-03
<i>Gm16062</i>	-1.90	7.65E-04	-1.14	3.53E-02	-1.67	1.78E-03
<i>Gm16083</i>	2.43	6.34E-06	2.44	1.68E-05	2.95	9.35E-07
<i>Gm16085</i>	1.63	1.06E-02	1.64	1.95E-02	2.74	2.57E-04
<i>Gm16124</i>	1.00	8.82E-06	1.34	2.07E-06	1.23	1.13E-06
<i>Gm16286</i>	-1.33	8.49E-07	-1.79	2.20E-07	-1.58	1.50E-07
<i>Gm16302</i>	1.25	2.20E-02	2.68	3.01E-04	1.50	7.36E-03
<i>Gm16565</i>	-2.60	6.83E-05	-3.64	1.08E-05	-2.45	9.71E-05
<i>Gm16576</i>	1.71	1.80E-07	1.94	1.77E-07	2.05	2.64E-08
<i>Gm16586</i>	1.22	4.76E-07	1.59	1.66E-07	1.32	1.73E-07
<i>Gm16754</i>	1.60	1.44E-02	2.52	1.67E-03	1.49	2.00E-02
<i>Gm16845</i>	1.09	4.37E-04	0.59	4.15E-02	1.30	9.32E-05
<i>Gm17167</i>	1.23	5.84E-03	1.38	5.74E-03	1.69	5.72E-04
<i>Gm17173</i>	0.88	5.21E-03	1.95	3.06E-05	1.17	6.51E-04
<i>Gm1720</i>	2.41	3.17E-03	3.59	4.13E-04	1.95	1.09E-02
<i>Gm17231</i>	1.03	9.44E-06	1.24	5.51E-06	1.02	8.36E-06
<i>Gm17641</i>	-1.60	2.27E-04	-1.97	1.08E-04	-1.28	1.12E-03
<i>Gm17655</i>	1.02	1.37E-03	1.38	3.33E-04	1.06	9.21E-04
<i>Gm1818</i>	-1.78	7.20E-04	-1.27	1.39E-02	-2.07	1.94E-04
<i>Gm18190</i>	1.81	4.36E-04	2.16	2.72E-04	1.86	3.21E-04
<i>Gm18752</i>	1.87	1.06E-03	2.37	4.32E-04	2.29	1.99E-04
<i>Gm19261</i>	1.66	5.55E-03	2.79	3.11E-04	2.38	3.83E-04
<i>Gm19557</i>	-2.77	1.79E-05	-2.29	2.22E-04	-3.90	7.43E-07
<i>Gm20425</i>	-2.24	1.49E-02	-4.20	4.87E-04	-3.54	6.63E-04
<i>Gm20457</i>	-1.25	2.28E-05	-1.27	5.22E-05	-1.25	1.88E-05
<i>Gm20496</i>	1.34	2.28E-03	1.58	1.59E-03	1.33	2.15E-03
<i>Gm20517</i>	-1.02	2.19E-05	-0.85	2.52E-04	-1.06	1.31E-05
<i>Gm20521</i>	1.48	2.66E-04	1.27	1.92E-03	1.66	9.22E-05
<i>Gm20627</i>	2.97	1.13E-04	4.35	1.26E-05	4.72	1.79E-06
<i>Gm20663</i>	2.52	5.52E-09	2.97	5.57E-09	4.26	7.32E-11
<i>Gm20939</i>	2.19	6.02E-08	1.97	3.41E-07	2.14	4.15E-08
<i>Gm21092</i>	-1.33	1.10E-06	-1.46	1.40E-06	-1.20	2.00E-06



<i>Gm2163</i>	1.38	7.89E-05	1.33	2.77E-04	1.68	1.22E-05
<i>Gm21811</i>	-1.45	7.06E-08	-1.47	1.61E-07	-1.31	9.42E-08
<i>Gm21974</i>	0.93	1.25E-03	1.08	9.76E-04	1.01	5.91E-04
<i>Gm21987</i>	1.69	9.09E-03	1.80	1.21E-02	1.67	9.00E-03
<i>Gm26510</i>	1.88	5.36E-06	1.77	2.43E-05	2.66	2.11E-07
<i>Gm26541</i>	1.12	7.02E-08	1.28	7.50E-08	1.30	1.30E-08
<i>Gm26621</i>	-1.05	1.41E-02	-1.22	1.17E-02	-1.22	5.39E-03
<i>Gm26637</i>	2.16	3.14E-05	1.44	1.79E-03	2.71	3.73E-06
<i>Gm26667</i>	-1.43	2.36E-03	-1.39	6.01E-03	-3.00	5.32E-06
<i>Gm26685</i>	1.14	1.05E-04	0.88	1.77E-03	2.01	6.45E-07
<i>Gm26690</i>	-1.01	1.82E-04	-0.73	4.27E-03	-1.14	5.67E-05
<i>Gm26740</i>	2.25	1.40E-08	2.59	1.47E-08	3.41	3.98E-10
<i>Gm26756</i>	-2.92	2.57E-03	-3.29	2.48E-03	-2.42	7.87E-03
<i>Gm26767</i>	-1.64	2.04E-07	-1.87	2.00E-07	-1.77	7.25E-08
<i>Gm26782</i>	1.33	3.99E-07	1.83	9.80E-08	1.48	1.11E-07
<i>Gm26804</i>	-1.37	4.41E-04	-1.21	2.63E-03	-1.92	2.52E-05
<i>Gm26810</i>	1.87	5.86E-04	3.09	2.58E-05	2.24	1.22E-04
<i>Gm26826</i>	-1.18	7.79E-03	-1.31	8.15E-03	-1.68	6.35E-04
<i>Gm26853</i>	-2.40	5.61E-04	-2.44	1.19E-03	-1.80	4.03E-03
<i>Gm26879</i>	1.57	3.06E-02	1.75	3.16E-02	1.40	4.85E-02
<i>Gm26884</i>	-2.34	1.25E-03	-3.15	3.12E-04	-3.81	2.19E-05
<i>Gm26908</i>	3.01	2.97E-04	4.17	5.44E-05	2.78	4.84E-04
<i>Gm26920</i>	1.75	1.57E-05	1.61	8.14E-05	1.51	4.64E-05
<i>Gm27042</i>	1.69	2.22E-05	1.52	1.43E-04	1.01	1.21E-03
<i>Gm28042</i>	2.81	2.52E-08	2.84	5.77E-08	1.89	3.05E-07
<i>Gm28046</i>	2.12	2.85E-04	2.73	9.44E-05	2.10	2.68E-04
<i>Gm28068</i>	1.04	4.24E-04	1.08	7.72E-04	2.50	2.12E-07
<i>Gm2822</i>	2.42	1.00E-03	2.21	4.10E-03	2.83	2.66E-04
<i>Gm28557</i>	1.34	2.05E-06	1.75	6.30E-07	1.58	3.71E-07
<i>Gm28727</i>	1.37	3.30E-06	1.56	3.05E-06	2.58	1.38E-08
<i>Gm28869</i>	1.00	2.38E-02	1.03	3.44E-02	1.60	1.15E-03
<i>Gm28935</i>	1.58	3.78E-04	2.35	3.87E-05	2.42	9.42E-06
<i>Gm29642</i>	1.29	3.36E-02	1.52	2.56E-02	2.08	1.82E-03
<i>Gm30948</i>	3.44	7.16E-06	3.93	6.44E-06	6.42	2.90E-08
<i>Gm32391</i>	1.63	2.96E-03	1.37	1.68E-02	2.19	3.14E-04
<i>Gm33280</i>	1.24	7.05E-07	2.06	4.55E-08	2.02	9.98E-09
<i>Gm33994</i>	1.65	7.73E-06	1.74	1.37E-05	1.56	1.04E-05
<i>Gm3604</i>	1.48	3.24E-05	1.98	7.35E-06	1.97	2.24E-06

<i>Gm37065</i>	2.57	4.03E-07	2.70	7.38E-07	2.88	1.07E-07
<i>Gm38250</i>	1.87	6.03E-03	2.96	5.45E-04	1.57	1.52E-02
<i>Gm38293</i>	1.62	4.11E-03	1.40	1.86E-02	3.12	2.26E-05
<i>Gm4070</i>	2.47	1.66E-05	2.33	7.34E-05	5.31	2.14E-08
<i>Gm4258</i>	-2.38	4.16E-02	-3.50	1.01E-02	-3.95	2.06E-03
<i>Gm4419</i>	1.05	1.73E-02	2.54	7.86E-05	1.85	3.43E-04
<i>Gm4577</i>	2.08	2.26E-03	2.49	1.45E-03	3.98	1.14E-05
<i>Gm4951</i>	2.98	7.48E-04	2.97	1.79E-03	7.28	3.55E-07
<i>Gm5106</i>	-1.65	2.42E-03	-2.95	7.03E-05	-1.79	1.27E-03
<i>Gm5113</i>	1.53	1.78E-06	1.44	8.20E-06	1.72	4.94E-07
<i>Gm5141</i>	1.49	4.91E-05	1.76	3.29E-05	1.78	8.92E-06
<i>Gm527</i>	-1.10	3.19E-05	-1.02	1.57E-04	-1.24	9.25E-06
<i>Gm5533</i>	1.76	2.10E-03	1.99	1.98E-03	2.61	8.95E-05
<i>Gm5538</i>	1.32	7.16E-05	1.43	9.68E-05	3.41	1.93E-08
<i>Gm5595</i>	1.95	1.61E-03	1.66	9.63E-03	1.85	2.10E-03
<i>Gm5616</i>	-1.10	3.30E-02	-1.61	7.48E-03	-1.34	1.07E-02
<i>Gm590</i>	-2.06	4.58E-03	-1.81	1.89E-02	-1.55	2.17E-02
<i>Gm6225</i>	-1.85	7.65E-03	-2.17	5.72E-03	-1.93	5.33E-03
<i>Gm6297</i>	1.66	3.44E-04	1.39	2.91E-03	2.26	2.36E-05
<i>Gm6483</i>	-1.51	1.93E-07	-1.54	4.33E-07	-1.39	2.58E-07
<i>Gm6904</i>	1.24	9.72E-04	1.17	3.26E-03	2.40	3.69E-06
<i>Gm6939</i>	1.83	1.91E-07	1.67	1.09E-06	2.00	6.04E-08
<i>Gm7598</i>	1.97	5.61E-04	1.63	4.72E-03	3.56	3.47E-06
<i>Gm7967</i>	1.42	3.55E-04	1.93	7.89E-05	2.71	1.27E-06
<i>Gm8251</i>	1.99	5.10E-08	2.13	8.13E-08	2.33	8.73E-09
<i>Gm8898</i>	1.30	5.78E-07	1.38	1.03E-06	1.47	1.50E-07
<i>Gm9581</i>	2.28	6.28E-05	2.65	4.68E-05	3.03	4.61E-06
<i>Gm9967</i>	1.66	1.58E-02	1.70	2.52E-02	2.85	3.79E-04
<i>Gmnn</i>	-0.95	3.92E-06	-1.24	1.17E-06	-1.09	9.53E-07
<i>Gna13</i>	-1.48	1.34E-07	-1.72	1.17E-07	-1.45	1.03E-07
<i>Gna15</i>	3.07	3.31E-04	3.33	4.26E-04	2.91	4.41E-04
<i>Gnat1</i>	-3.61	2.31E-03	-5.25	3.45E-04	-6.22	2.87E-05
<i>Gne</i>	1.10	8.46E-08	1.06	2.81E-07	1.00	1.05E-07
<i>Gng10</i>	-0.85	3.62E-02	-1.26	8.05E-03	-1.16	6.25E-03
<i>Gnl3</i>	-1.06	1.31E-06	-1.21	1.25E-06	-2.05	5.22E-09
<i>Gnrh1</i>	1.86	1.99E-04	2.01	2.65E-04	2.02	8.54E-05
<i>Golgal</i>	0.94	2.03E-08	1.18	1.26E-08	1.05	4.17E-09
<i>Golph3</i>	-1.42	6.87E-08	-1.50	1.23E-07	-1.53	2.23E-08

<i>Golt1b</i>	-1.32	3.08E-07	-1.43	4.30E-07	-1.71	2.57E-08
<i>Got1</i>	-1.94	1.51E-07	-2.31	1.08E-07	-1.84	1.51E-07
<i>Gpatch3</i>	-1.27	3.52E-07	-1.52	2.45E-07	-1.25	2.78E-07
<i>Gpbp1</i>	-1.05	4.62E-08	-1.08	9.67E-08	-1.15	1.25E-08
<i>Gpbp1l1</i>	-1.10	7.35E-08	-1.04	2.78E-07	-1.00	8.77E-08
<i>Gpn3</i>	-1.03	1.11E-08	-1.17	1.27E-08	-1.08	3.40E-09
<i>Gpnmb</i>	-2.56	8.23E-05	-2.89	7.87E-05	-1.31	9.45E-03
<i>Gpr132</i>	-1.89	4.53E-08	-2.26	3.73E-08	-1.99	1.66E-08
<i>Gpr137</i>	0.99	3.65E-04	1.30	1.06E-04	1.38	2.04E-05
<i>Gpr146</i>	1.59	8.13E-03	1.90	5.64E-03	1.59	7.52E-03
<i>Gpr180</i>	1.20	1.65E-07	1.28	2.54E-07	1.28	6.21E-08
<i>Gpr182</i>	1.38	1.85E-06	1.50	2.62E-06	1.72	2.18E-07
<i>Gpr3</i>	-2.59	3.30E-02	-3.44	1.36E-02	-3.27	8.77E-03
<i>Gpr68</i>	-1.37	1.21E-02	-1.37	2.30E-02	-1.45	8.18E-03
<i>Gprc5a</i>	-2.67	2.65E-05	-3.10	2.00E-05	-3.89	8.16E-07
<i>Gprc5b</i>	1.55	1.01E-08	1.48	3.25E-08	2.17	4.66E-10
<i>Gpx7</i>	-1.17	6.31E-03	-1.09	1.89E-02	-1.28	3.22E-03
<i>Gramd1c</i>	-1.10	2.58E-04	-1.13	5.17E-04	-1.57	1.11E-05
<i>Gramd3</i>	-2.37	1.66E-07	-2.86	1.08E-07	-2.38	1.03E-07
<i>Grhl1</i>	-1.76	2.79E-04	-2.14	1.50E-04	-2.75	5.75E-06
<i>Grhl2</i>	-2.22	1.55E-04	-1.75	2.18E-03	-1.10	1.72E-02
<i>Grifin</i>	2.00	1.92E-07	2.63	7.17E-08	2.86	7.83E-09
<i>Grm6</i>	1.64	5.54E-05	1.68	1.18E-04	2.34	2.16E-06
<i>Gstt2</i>	1.27	3.20E-06	0.86	2.05E-04	1.56	4.05E-07
<i>Gstz1</i>	1.17	2.52E-06	1.33	2.39E-06	1.41	3.79E-07
<i>Gtf2ird1</i>	-1.70	2.28E-06	-2.01	1.58E-06	-2.69	3.70E-08
<i>Gtpbp4</i>	-1.01	1.29E-07	-1.03	2.85E-07	-1.29	1.18E-08
<i>Gtse1</i>	-0.77	1.36E-02	-1.15	2.17E-03	-1.01	2.24E-03
<i>Guca1b</i>	0.92	4.43E-05	1.01	5.28E-05	1.22	3.28E-06
<i>Gucd1</i>	1.85	1.04E-09	1.93	1.83E-09	2.11	9.44E-11
<i>Gvin1</i>	2.67	1.67E-09	3.36	1.11E-09	4.31	2.23E-11
<i>Gypc</i>	-1.67	1.40E-08	-1.89	1.60E-08	-1.83	3.17E-09
<i>H2-DMa</i>	0.94	4.09E-06	1.19	1.52E-06	1.44	8.48E-08
<i>H2-K2</i>	1.70	2.13E-07	1.80	3.64E-07	2.21	1.74E-08
<i>H2-Q1</i>	1.86	3.99E-06	1.45	8.68E-05	2.01	1.63E-06
<i>H2-T23</i>	1.10	1.17E-07	1.10	2.98E-07	2.99	8.24E-11
<i>H2afz</i>	-1.67	1.54E-06	-1.96	1.14E-06	-2.32	7.33E-08
<i>H3f3b</i>	-1.21	3.83E-07	-1.44	2.66E-07	-1.27	1.79E-07

<i>H60b</i>	-3.49	2.16E-04	-4.88	3.63E-05	-3.59	1.52E-04
<i>Habp4</i>	1.29	7.18E-08	1.45	8.13E-08	1.60	8.17E-09
<i>Hacl1</i>	1.07	6.27E-07	1.05	1.95E-06	1.40	4.82E-08
<i>Hal</i>	2.33	1.95E-04	2.93	7.79E-05	1.87	9.43E-04
<i>Haus3</i>	-1.19	3.46E-05	-0.93	6.64E-04	-1.27	1.68E-05
<i>Haus6</i>	-1.11	1.37E-06	-1.21	1.90E-06	-1.18	6.40E-07
<i>Hbp1</i>	-1.94	2.03E-07	-2.06	3.42E-07	-1.90	1.65E-07
<i>Hbs11</i>	-1.60	1.02E-07	-1.88	8.39E-08	-1.77	2.74E-08
<i>Hcn3</i>	1.55	4.79E-08	1.35	3.40E-07	1.17	2.63E-07
<i>Hdac5</i>	-1.04	5.20E-08	-1.24	4.35E-08	-1.07	2.34E-08
<i>Hecw2</i>	-2.00	3.33E-03	-2.43	1.96E-03	-2.67	3.76E-04
<i>Hepacam2</i>	3.14	3.75E-04	2.68	2.72E-03	2.03	7.25E-03
<i>Hexim1</i>	-1.43	1.64E-06	-1.85	5.42E-07	-1.45	1.08E-06
<i>Hey1</i>	-2.62	8.92E-05	-3.76	1.16E-05	-3.81	3.01E-06
<i>Hey2</i>	-2.16	1.43E-03	-2.62	7.92E-04	-2.43	5.31E-04
<i>Hif1a</i>	-1.00	3.21E-06	-1.07	4.84E-06	-1.57	5.33E-08
<i>Hif1an</i>	-1.03	1.85E-08	-1.12	2.63E-08	-1.18	3.21E-09
<i>Hif3a</i>	-2.45	4.42E-04	-2.25	1.89E-03	-2.35	5.37E-04
<i>Hint3</i>	1.18	4.13E-06	1.41	2.60E-06	1.41	7.23E-07
<i>Hip1r</i>	-1.59	2.04E-06	-1.83	1.76E-06	-1.58	1.66E-06
<i>Hist1h1a</i>	-2.73	1.75E-04	-3.64	4.29E-05	-3.86	7.97E-06
<i>Hist1h1c</i>	-1.83	9.02E-05	-2.29	3.75E-05	-1.60	2.35E-04
<i>Hist1h1d</i>	-2.40	1.71E-02	-3.63	2.72E-03	-3.28	2.28E-03
<i>Hist1h1e</i>	-3.56	3.18E-03	-4.74	9.58E-04	-3.98	1.34E-03
<i>Hist1h2ac</i>	-2.63	4.82E-03	-2.91	5.25E-03	-3.44	6.82E-04
<i>Hist1h2ak</i>	-2.71	1.48E-04	-1.91	4.40E-03	-2.31	4.54E-04
<i>Hist1h3a</i>	-3.28	2.37E-03	-3.14	6.55E-03	-3.08	3.30E-03
<i>Hist1h3e</i>	-2.69	5.29E-03	-2.52	1.49E-02	-2.76	4.03E-03
<i>Hist1h3f</i>	-1.54	3.18E-02	-1.89	2.02E-02	-2.58	1.26E-03
<i>Hist1h4d</i>	-1.67	3.37E-02	-2.49	7.23E-03	-2.62	2.26E-03
<i>Hist1h4n</i>	-3.02	7.87E-03	-3.51	6.34E-03	-3.70	1.92E-03
<i>Hist2h2be</i>	1.76	1.85E-06	1.66	8.24E-06	2.83	2.69E-08
<i>Hist2h4</i>	2.00	1.16E-04	2.36	8.02E-05	3.50	8.05E-07
<i>Hivep1</i>	-1.64	6.63E-08	-1.71	1.27E-07	-1.09	1.21E-06
<i>Hivep3</i>	-1.48	1.72E-06	-1.51	4.00E-06	-2.20	4.60E-08
<i>Hk2</i>	-1.99	9.24E-03	-1.93	2.04E-02	-4.70	1.19E-05
<i>Hlf</i>	-1.37	2.98E-02	-2.44	1.87E-03	-2.17	1.75E-03
<i>Hmcn2</i>	1.99	3.20E-04	1.66	2.69E-03	1.44	2.97E-03

<i>Hmgb3</i>	-1.68	2.03E-05	-1.77	3.45E-05	-2.68	2.84E-07
<i>Hmmr</i>	-1.29	2.79E-03	-1.22	7.91E-03	-1.44	1.14E-03
<i>Hmox1</i>	-1.25	3.22E-02	-2.26	1.88E-03	-2.20	8.98E-04
<i>Hnrnpa1</i>	-1.00	2.87E-08	-1.08	4.51E-08	-1.38	1.49E-09
<i>Hnrnph1</i>	-1.20	7.52E-07	-1.29	1.17E-06	-1.38	1.70E-07
<i>Homer1</i>	-1.40	8.67E-07	-1.48	1.52E-06	-1.86	5.92E-08
<i>Homer3</i>	1.55	2.32E-07	1.42	1.29E-06	1.55	1.57E-07
<i>Homez</i>	1.40	3.66E-06	1.40	9.61E-06	1.78	3.47E-07
<i>Hook1</i>	-1.11	1.99E-07	-1.18	3.35E-07	-1.39	2.14E-08
<i>Hook3</i>	1.03	8.22E-08	1.20	7.09E-08	1.12	2.45E-08
<i>Hpgds</i>	-1.91	1.01E-05	-2.17	9.29E-06	-2.15	3.03E-06
<i>Hsd11b1</i>	-2.08	3.41E-06	-2.37	3.20E-06	-1.85	7.62E-06
<i>Hsd17b14</i>	1.58	1.47E-02	2.07	5.76E-03	1.49	1.87E-02
<i>Hsd3b7</i>	1.14	1.71E-05	1.71	1.50E-06	1.44	1.76E-06
<i>Hsp90aa1</i>	-1.38	2.44E-05	-1.35	7.64E-05	-1.97	9.19E-07
<i>Hspa13</i>	-0.90	1.10E-06	-1.02	1.11E-06	-1.06	2.03E-07
<i>Hspa1b</i>	-2.68	1.75E-03	-2.81	2.81E-03	-4.68	1.82E-05
<i>Hspa2</i>	-2.17	1.30E-05	-2.96	2.71E-06	-2.83	1.08E-06
<i>Hspa4</i>	-1.07	1.44E-08	-1.11	2.83E-08	-1.35	1.31E-09
<i>Hspa4l</i>	-2.04	3.04E-07	-2.41	2.29E-07	-2.29	8.00E-08
<i>Hspa5</i>	-2.06	2.35E-07	-2.42	1.86E-07	-2.69	1.90E-08
<i>Hspbap1</i>	1.06	3.18E-08	1.10	6.38E-08	1.02	2.27E-08
<i>Hyal2</i>	1.81	4.01E-05	1.27	1.61E-03	1.03	2.81E-03
<i>Iah1</i>	0.89	6.78E-05	1.12	2.58E-05	1.05	1.35E-05
<i>Iba57</i>	-1.36	5.33E-07	-1.71	2.31E-07	-1.59	9.91E-08
<i>Icos</i>	-1.89	8.20E-07	-2.35	3.90E-07	-2.33	1.03E-07
<i>Icosl</i>	-1.60	1.49E-05	-1.49	7.03E-05	-1.91	2.59E-06
<i>Ict1</i>	1.01	3.11E-08	0.98	9.10E-08	1.41	1.44E-09
<i>Idh1</i>	2.08	4.68E-08	2.11	1.09E-07	1.91	5.10E-08
<i>Ier3</i>	-1.79	2.51E-02	-1.80	4.19E-02	-2.61	2.41E-03
<i>Ier5</i>	-1.35	4.54E-08	-1.58	4.36E-08	-1.48	1.28E-08
<i>Ier5l</i>	-2.51	6.98E-03	-4.44	2.82E-04	-4.51	8.39E-05
<i>Ifi203</i>	1.39	5.94E-08	1.71	4.09E-08	2.83	2.70E-10
<i>Ifit2</i>	0.91	2.38E-06	1.06	1.91E-06	2.55	7.04E-10
<i>Ifitm10</i>	1.15	1.67E-03	0.71	4.97E-02	1.33	5.11E-04
<i>Ifngr2</i>	-1.90	1.62E-07	-2.31	1.02E-07	-2.63	8.42E-09
<i>Ifrd1</i>	-2.18	1.11E-07	-2.77	5.48E-08	-2.86	8.73E-09
<i>Ift122</i>	1.01	2.04E-04	0.71	5.79E-03	1.67	2.43E-06

<i>Ift52</i>	0.94	1.17E-05	1.01	1.73E-05	1.17	1.42E-06
<i>Igsf23</i>	-0.97	4.12E-05	-1.02	6.91E-05	-1.74	2.19E-07
<i>Igsf8</i>	-1.07	3.90E-05	-1.39	1.21E-05	-1.76	4.55E-07
<i>Igtp</i>	0.73	2.49E-04	1.28	5.89E-06	3.79	4.66E-10
<i>Ikbip</i>	1.19	4.21E-04	1.84	3.18E-05	1.03	1.14E-03
<i>Ikzf2</i>	-1.03	1.35E-02	-0.88	4.99E-02	-1.06	1.07E-02
<i>Ikzf5</i>	-1.79	1.88E-04	-2.05	1.62E-04	-1.70	2.44E-04
<i>Il17rd</i>	-0.73	1.09E-02	-1.33	3.75E-04	-1.31	1.52E-04
<i>Il20ra</i>	-1.29	1.99E-04	-1.59	9.39E-05	-1.22	2.58E-04
<i>Il21r</i>	-1.86	2.37E-08	-2.38	1.31E-08	-2.69	9.19E-10
<i>Ildr1</i>	-2.03	3.11E-03	-2.06	5.87E-03	-1.86	4.99E-03
<i>Ilf3</i>	-1.34	4.69E-09	-1.44	7.23E-09	-1.74	2.79E-10
<i>Impg2</i>	0.89	2.46E-04	1.41	1.56E-05	1.46	3.30E-06
<i>Incenp</i>	-1.06	6.18E-08	-1.11	1.18E-07	-1.37	5.30E-09
<i>Ing3</i>	-1.44	4.08E-07	-1.74	2.42E-07	-1.56	1.45E-07
<i>Ipmk</i>	-1.17	1.19E-06	-1.30	1.31E-06	-1.24	5.36E-07
<i>Iqcb1</i>	-1.12	5.99E-06	-1.42	2.21E-06	-1.45	5.04E-07
<i>Iqcd</i>	2.59	2.38E-05	1.24	1.24E-02	3.14	3.74E-06
<i>Iqck</i>	1.93	7.13E-04	1.18	3.07E-02	2.46	9.09E-05
<i>Irak1bp1</i>	-1.38	1.20E-02	-1.47	1.57E-02	-1.32	1.43E-02
<i>Irak4</i>	0.95	5.64E-07	1.12	4.15E-07	1.22	5.04E-08
<i>Irf2bp2</i>	-1.79	1.42E-09	-2.12	1.11E-09	-1.90	2.03E-10
<i>Irf4</i>	-2.65	5.85E-06	-3.64	1.16E-06	-1.01	8.51E-03
<i>Irs1</i>	1.18	2.07E-02	1.16	3.85E-02	1.00	4.25E-02
<i>Irs2</i>	-2.25	1.51E-07	-2.67	1.13E-07	-2.48	4.26E-08
<i>Isca1</i>	-1.31	2.61E-08	-1.58	2.07E-08	-1.55	3.88E-09
<i>Isoc2b</i>	1.05	1.76E-03	1.12	2.41E-03	1.60	5.67E-05
<i>Itga10</i>	0.97	2.76E-05	1.43	3.08E-06	1.40	9.96E-07
<i>Itga2</i>	1.74	3.77E-04	1.99	3.28E-04	2.48	1.78E-05
<i>Itga4</i>	1.19	2.43E-08	1.07	1.18E-07	1.71	9.72E-10
<i>Itih4</i>	-2.62	6.80E-03	-2.27	2.81E-02	-2.22	1.62E-02
<i>Itih5</i>	3.26	2.87E-08	3.34	6.01E-08	1.93	1.05E-06
<i>Itk</i>	-1.00	1.24E-08	-1.02	2.69E-08	-1.35	6.87E-10
<i>Itpkb</i>	-1.79	2.41E-08	-2.04	2.71E-08	-2.34	1.83E-09
<i>Itsn1</i>	2.25	5.21E-07	1.87	6.66E-06	1.96	1.23E-06
<i>Izumo4</i>	1.45	3.62E-07	1.28	2.63E-06	1.83	3.58E-08
<i>Jmjd1c</i>	-1.59	1.15E-07	-1.78	1.31E-07	-1.70	4.15E-08
<i>Jmy</i>	-2.37	2.42E-07	-2.94	1.31E-07	-2.86	3.48E-08

<i>Josd1</i>	-1.58	3.68E-08	-1.99	2.13E-08	-2.08	2.61E-09
<i>Josd2</i>	1.39	2.70E-07	1.47	4.63E-07	1.54	7.70E-08
<i>Junb</i>	-2.13	7.04E-08	-2.71	3.80E-08	-2.81	5.13E-09
<i>Jund</i>	-0.83	5.89E-05	-1.22	6.09E-06	-1.43	4.21E-07
<i>Kank3</i>	1.88	1.65E-04	1.78	6.19E-04	1.30	2.34E-03
<i>Kantr_2</i>	1.50	1.14E-06	1.50	3.13E-06	1.46	1.09E-06
<i>Kat2b</i>	1.54	7.94E-09	1.55	1.82E-08	1.72	1.43E-09
<i>Katna1</i>	-1.22	2.50E-07	-1.40	2.31E-07	-1.37	6.39E-08
<i>Kbtbd11</i>	1.49	4.36E-09	1.18	3.54E-08	2.63	4.94E-11
<i>Kbtbd3</i>	1.75	1.67E-07	1.71	5.13E-07	1.13	4.54E-06
<i>Kcna2</i>	1.10	2.41E-06	0.61	7.71E-04	1.94	1.65E-08
<i>Kcnj14</i>	-1.68	3.67E-02	-2.06	2.35E-02	-1.67	3.53E-02
<i>Kcnk7</i>	-1.65	2.19E-02	-2.07	1.20E-02	-2.19	3.84E-03
<i>Kcnq5</i>	-1.31	5.69E-03	-1.27	1.35E-02	-1.90	3.75E-04
<i>Kctd10</i>	-1.38	2.92E-08	-1.38	7.31E-08	-1.40	1.32E-08
<i>Kctd12</i>	-1.65	3.12E-07	-1.98	2.06E-07	-2.43	1.02E-08
<i>Kctd12b</i>	-2.10	6.61E-06	-2.42	5.43E-06	-2.24	3.02E-06
<i>Kctd21</i>	2.65	3.31E-06	3.15	2.16E-06	3.01	8.45E-07
<i>Kdm2b</i>	-2.23	2.18E-07	-2.60	1.82E-07	-3.00	1.37E-08
<i>Kdm5a</i>	-1.44	6.87E-08	-1.52	1.18E-07	-1.43	4.09E-08
<i>Kdm6a</i>	-1.25	2.26E-05	-1.29	4.61E-05	-1.27	1.61E-05
<i>Kdm6b</i>	-1.43	2.51E-07	-1.76	1.41E-07	-1.72	3.84E-08
<i>Kif11</i>	-2.12	8.02E-06	-2.65	3.41E-06	-3.21	1.75E-07
<i>Kif13a</i>	1.27	8.08E-06	1.02	1.39E-04	1.05	3.37E-05
<i>Kif18a</i>	-2.05	8.82E-06	-2.59	3.36E-06	-2.31	2.50E-06
<i>Kif18b</i>	-1.62	2.24E-02	-1.95	1.51E-02	-1.56	2.54E-02
<i>Kif20a</i>	-1.01	1.12E-02	-0.92	3.20E-02	-1.28	2.28E-03
<i>Kif22</i>	1.60	1.66E-07	1.61	4.21E-07	2.01	1.81E-08
<i>Kif23</i>	-1.52	1.22E-06	-1.80	8.27E-07	-2.01	8.20E-08
<i>Kif3a</i>	1.04	1.44E-06	1.03	4.44E-06	1.95	7.06E-09
<i>Kif4</i>	-1.91	2.15E-03	-1.85	5.54E-03	-1.24	2.56E-02
<i>Kif5c</i>	0.98	6.68E-05	1.10	6.75E-05	1.01	4.37E-05
<i>Kif7</i>	-1.24	1.14E-05	-0.91	3.69E-04	-1.45	2.36E-06
<i>Kifc1</i>	2.49	1.13E-08	2.31	4.38E-08	2.37	6.88E-09
<i>Kifc5b</i>	1.11	3.60E-07	0.76	2.30E-05	1.09	2.87E-07
<i>Klc2</i>	1.04	3.68E-08	0.93	2.06E-07	1.03	2.17E-08
<i>Klc3</i>	2.00	2.41E-08	1.89	8.45E-08	1.40	2.00E-07
<i>Klf10</i>	-1.47	3.69E-06	-1.71	2.82E-06	-2.16	1.03E-07

<i>Klf4</i>	-2.91	6.48E-05	-4.68	3.27E-06	-4.79	7.37E-07
<i>Klhdc1</i>	2.45	1.67E-09	2.41	3.71E-09	2.00	1.36E-09
<i>Klhdc4</i>	-1.20	1.23E-06	-1.22	2.97E-06	-1.65	6.35E-08
<i>Klhl11</i>	-1.17	1.25E-06	-1.30	1.46E-06	-1.22	6.66E-07
<i>Klhl12</i>	-1.21	4.12E-08	-1.33	5.48E-08	-1.33	1.03E-08
<i>Klhl20</i>	1.11	1.14E-07	1.37	7.05E-08	1.30	2.04E-08
<i>Klhl26</i>	1.24	6.87E-08	1.21	2.09E-07	1.32	2.41E-08
<i>Klhl35</i>	1.15	7.40E-03	1.54	2.35E-03	1.31	2.98E-03
<i>Klhl42</i>	0.96	3.77E-06	1.04	5.51E-06	1.58	4.41E-08
<i>Klhl8</i>	0.96	3.15E-04	1.30	6.69E-05	1.08	1.06E-04
<i>Klrblf</i>	-3.28	3.19E-04	-2.00	1.86E-02	-3.02	5.31E-04
<i>Kmt2d</i>	0.98	1.02E-07	1.05	1.61E-07	1.10	2.54E-08
<i>Kncn</i>	-1.69	1.51E-02	-1.70	2.70E-02	-1.63	1.71E-02
<i>Knstrn</i>	1.02	7.36E-05	1.05	1.51E-04	1.53	1.85E-06
<i>Kpna1</i>	-1.61	1.86E-07	-1.84	1.80E-07	-2.30	7.85E-09
<i>Kras</i>	-0.97	5.80E-06	-1.00	1.21E-05	-1.21	6.86E-07
<i>Krcc1</i>	1.24	8.13E-06	1.14	4.38E-05	1.88	1.75E-07
<i>l7Rn6</i>	1.22	1.83E-07	1.23	4.58E-07	1.35	5.10E-08
<i>Lacc1</i>	-2.36	1.33E-02	-2.19	3.46E-02	-2.77	4.66E-03
<i>Lactb2</i>	1.40	5.48E-08	1.66	4.55E-08	1.57	1.26E-08
<i>Lad1</i>	-2.47	2.89E-03	-3.52	5.05E-04	-5.08	8.20E-06
<i>Lamb3</i>	1.64	2.37E-08	1.85	2.80E-08	1.95	3.33E-09
<i>Lamc1</i>	2.02	3.49E-07	1.65	5.00E-06	1.62	1.63E-06
<i>Lamtor4</i>	1.19	1.05E-07	1.25	1.81E-07	1.51	9.95E-09
<i>Lancl2</i>	-1.38	7.22E-06	-1.78	2.24E-06	-1.65	1.17E-06
<i>Larplb</i>	-0.79	1.65E-05	-1.02	5.53E-06	-1.34	1.52E-07
<i>Larp7</i>	-1.14	1.97E-07	-1.29	2.02E-07	-1.26	5.66E-08
<i>Lca5</i>	1.00	4.41E-06	0.96	1.77E-05	1.50	1.13E-07
<i>Ldlr</i>	2.51	3.16E-09	2.71	5.51E-09	2.11	2.99E-09
<i>Lect1</i>	1.10	1.00E-02	0.90	4.99E-02	2.56	1.64E-05
<i>Lemd3</i>	-1.51	5.41E-07	-1.81	3.52E-07	-1.70	1.48E-07
<i>Leo1</i>	-1.48	7.10E-08	-1.58	1.14E-07	-1.88	7.11E-09
<i>Leprotl1</i>	0.85	1.73E-08	1.02	1.40E-08	1.09	1.35E-09
<i>Lfng</i>	1.68	2.70E-08	1.81	4.35E-08	1.08	4.72E-07
<i>Lgals4</i>	1.11	3.90E-08	1.07	1.27E-07	1.31	6.06E-09
<i>Lgals7</i>	-1.96	1.61E-02	-3.41	9.42E-04	-2.90	1.22E-03
<i>Lgalsl</i>	-0.92	1.33E-03	-1.00	1.68E-03	-1.31	7.64E-05
<i>Lif</i>	-2.91	8.34E-04	-4.24	1.10E-04	-5.27	5.44E-06



<i>Lincpint</i>	-1.82	1.58E-05	-2.20	8.44E-06	-2.62	5.42E-07
<i>Litaf</i>	-1.87	2.64E-07	-2.41	1.11E-07	-1.73	3.58E-07
<i>Lman1l</i>	-1.09	2.66E-03	-0.87	2.06E-02	-1.64	1.06E-04
<i>Lman2l</i>	0.87	5.96E-06	1.14	1.74E-06	1.24	2.23E-07
<i>Lmna</i>	-3.08	9.75E-05	-4.18	2.06E-05	-5.10	1.10E-06
<i>Lmnb1</i>	-1.00	7.85E-09	-1.08	1.12E-08	-1.21	8.04E-10
<i>Lmtk2</i>	-1.22	5.84E-08	-1.41	5.60E-08	-1.37	1.37E-08
<i>Lonrf1</i>	-1.48	4.60E-07	-1.94	1.52E-07	-2.77	2.58E-09
<i>Lonrf3</i>	-3.23	3.49E-04	-3.42	5.49E-04	-6.01	1.58E-06
<i>Loxl4</i>	-1.13	2.37E-03	-1.41	1.14E-03	-1.59	1.59E-04
<i>Lpar4</i>	-2.86	4.05E-06	-2.62	2.33E-05	-2.47	1.18E-05
<i>Lpar5</i>	2.44	5.01E-08	2.62	7.81E-08	2.14	7.70E-08
<i>Lpin1</i>	-1.56	4.43E-08	-1.67	7.05E-08	-2.02	3.69E-09
<i>Lpin2</i>	-1.39	2.98E-06	-1.40	7.76E-06	-1.24	6.50E-06
<i>Lrig1</i>	-1.66	2.03E-08	-1.97	1.74E-08	-1.95	3.04E-09
<i>Lrp12</i>	-1.46	3.35E-06	-1.42	1.22E-05	-1.06	4.22E-05
<i>Lrpap1</i>	-1.22	1.24E-08	-1.30	2.01E-08	-1.52	1.14E-09
<i>Lrrc16b</i>	1.37	2.36E-02	2.40	1.48E-03	1.20	4.12E-02
<i>Lrrc20</i>	1.44	7.84E-06	1.85	2.55E-06	1.30	1.53E-05
<i>Lrrc23</i>	-1.56	5.86E-04	-1.74	6.11E-04	-1.50	6.97E-04
<i>Lrrc51</i>	2.19	1.68E-03	2.13	4.31E-03	2.39	7.98E-04
<i>Lrrc61</i>	1.11	7.07E-06	0.97	5.72E-05	1.63	1.91E-07
<i>Lrrc75b</i>	1.31	3.83E-06	1.55	2.61E-06	1.31	2.96E-06
<i>Lsg1</i>	-0.97	8.66E-08	-1.06	1.17E-07	-1.05	2.69E-08
<i>Lsm10</i>	0.97	1.16E-04	1.16	7.11E-05	1.39	4.78E-06
<i>Lsm8</i>	-1.48	9.68E-08	-1.45	2.82E-07	-1.67	2.18E-08
<i>Lst1</i>	1.81	2.04E-04	1.02	2.06E-02	1.97	8.62E-05
<i>Ltv1</i>	-1.08	2.67E-08	-1.04	8.45E-08	-1.47	1.46E-09
<i>Luzp1</i>	-2.23	6.88E-07	-2.65	4.72E-07	-2.95	4.77E-08
<i>Lypd3</i>	-2.34	2.70E-05	-2.09	1.83E-04	-2.28	2.85E-05
<i>Lyrm9</i>	1.74	1.02E-08	1.86	1.66E-08	1.83	2.95E-09
<i>Lysmd2</i>	1.15	4.76E-04	1.25	6.03E-04	2.35	9.54E-07
<i>Lysmd3</i>	-1.21	4.81E-06	-1.33	6.19E-06	-1.32	1.92E-06
<i>Lztr1</i>	0.99	5.61E-09	1.03	9.75E-09	1.14	7.23E-10
<i>Maf</i>	-2.63	3.62E-05	-3.43	1.04E-05	-2.90	1.31E-05
<i>Mafa</i>	-1.61	6.98E-03	-3.13	1.33E-04	-1.41	1.40E-02
<i>Maff</i>	-2.20	3.40E-08	-2.93	1.47E-08	-2.36	1.03E-08
<i>Magi2</i>	1.51	1.95E-03	1.45	5.47E-03	1.60	1.16E-03

<i>Magoh</i>	-0.91	1.88E-06	-1.01	2.17E-06	-1.23	1.05E-07
<i>Mansc1</i>	1.35	1.69E-04	1.56	1.35E-04	1.47	7.51E-05
<i>Mansc4</i>	2.09	1.30E-03	2.97	2.21E-04	2.42	3.96E-04
<i>Maoa</i>	-1.59	8.19E-03	-1.60	1.55E-02	-3.06	6.02E-05
<i>Map10</i>	1.00	2.50E-03	0.77	2.44E-02	1.75	2.81E-05
<i>Map1lc3a</i>	-1.95	3.90E-07	-2.54	1.42E-07	-2.76	1.64E-08
<i>Map1lc3b</i>	-2.39	7.49E-07	-2.12	5.53E-06	-2.53	3.35E-07
<i>Map2</i>	-2.46	1.69E-04	-2.14	1.19E-03	-3.40	9.52E-06
<i>Map2k3</i>	-0.90	6.47E-08	-1.09	4.61E-08	-1.26	3.08E-09
<i>Map2k3os</i>	1.54	3.04E-03	1.88	1.68E-03	1.05	2.65E-02
<i>Map3k1</i>	-1.53	2.08E-08	-1.86	1.58E-08	-1.69	4.65E-09
<i>Map3k14</i>	-1.63	1.24E-08	-1.94	1.05E-08	-1.51	9.02E-09
<i>Map3k15</i>	1.59	3.07E-06	1.56	9.96E-06	1.72	1.21E-06
<i>Map3k2</i>	-1.19	3.73E-07	-1.36	3.52E-07	-1.19	2.68E-07
<i>Map3k6</i>	-1.66	2.25E-02	-2.36	5.69E-03	-1.99	7.54E-03
<i>Map3k8</i>	-1.56	1.37E-06	-1.88	8.24E-07	-2.09	8.55E-08
<i>Map3k9</i>	-1.14	1.58E-07	-1.30	1.56E-07	-1.19	6.96E-08
<i>Map4k5</i>	-1.36	1.23E-06	-1.45	2.06E-06	-1.50	4.07E-07
<i>Mapk6</i>	-0.94	9.18E-07	-1.02	1.20E-06	-1.10	1.66E-07
<i>Mapk8</i>	-1.12	3.52E-07	-1.24	4.29E-07	-1.28	8.00E-08
<i>March6</i>	-1.11	5.99E-08	-1.16	1.07E-07	-1.07	4.32E-08
<i>March7</i>	-1.15	3.05E-07	-1.21	5.48E-07	-1.19	1.65E-07
<i>Marcks11</i>	-2.50	4.88E-07	-2.78	5.61E-07	-3.60	1.75E-08
<i>Marveld1</i>	1.18	4.48E-08	1.06	2.27E-07	1.26	1.43E-08
<i>Marveld2</i>	-0.88	4.14E-02	-1.05	2.94E-02	-1.39	2.81E-03
<i>Masp2</i>	1.40	2.31E-03	1.96	4.49E-04	1.48	1.38E-03
<i>Mast1</i>	1.77	2.80E-03	2.02	2.54E-03	2.05	9.26E-04
<i>Matn1</i>	-1.52	7.74E-03	-1.82	5.16E-03	-1.55	6.37E-03
<i>Mavs</i>	1.37	3.02E-07	1.45	5.31E-07	1.35	2.39E-07
<i>Mblac2</i>	1.44	8.83E-07	1.30	5.83E-06	1.66	1.99E-07
<i>Mcam</i>	-1.90	1.38E-03	-3.73	1.67E-05	-3.38	1.16E-05
<i>Mcee</i>	1.66	5.31E-08	1.57	2.00E-07	1.47	7.98E-08
<i>Mcm4</i>	-1.13	1.52E-07	-1.23	2.07E-07	-1.14	8.77E-08
<i>Mcm5</i>	-1.11	1.59E-08	-1.14	3.25E-08	-1.34	1.95E-09
<i>Mctp2</i>	-1.33	9.95E-08	-1.58	7.63E-08	-1.40	4.02E-08
<i>Mdk</i>	1.04	3.62E-03	1.23	2.47E-03	1.34	5.33E-04
<i>Mecp2</i>	0.92	2.18E-08	1.05	2.31E-08	1.26	1.17E-09
<i>Med11</i>	-0.93	4.62E-07	-1.08	3.64E-07	-1.01	1.55E-07

<i>Med12l</i>	-1.57	4.88E-06	-1.51	1.77E-05	-1.82	1.07E-06
<i>Med13</i>	-1.41	4.69E-08	-1.43	1.10E-07	-1.46	2.03E-08
<i>Med16</i>	-1.47	1.43E-07	-1.69	1.36E-07	-1.49	8.03E-08
<i>Med20</i>	-0.96	2.86E-02	-1.45	5.22E-03	-1.16	9.39E-03
<i>Med26</i>	-0.96	2.23E-06	-1.12	1.71E-06	-1.24	1.97E-07
<i>Med7</i>	-2.22	5.21E-06	-2.67	3.05E-06	-1.97	1.20E-05
<i>Mef2d</i>	-1.21	2.52E-08	-1.33	3.47E-08	-1.45	3.48E-09
<i>Megf9</i>	-1.36	1.75E-06	-1.39	4.07E-06	-1.70	1.98E-07
<i>Mettl20</i>	3.00	7.17E-09	3.32	9.51E-09	2.79	4.48E-09
<i>Mettl21a</i>	0.98	1.47E-05	1.11	1.31E-05	1.27	1.20E-06
<i>Mettl4</i>	1.20	4.04E-06	1.22	9.47E-06	1.62	2.40E-07
<i>Mettl6</i>	-1.07	2.17E-07	-1.16	3.10E-07	-1.26	3.81E-08
<i>Mex3c</i>	-1.21	5.36E-07	-1.33	7.04E-07	-1.38	1.25E-07
<i>Mfsd10</i>	-0.98	2.85E-05	-1.04	4.64E-05	-1.23	3.30E-06
<i>Mfsd6</i>	-1.36	6.61E-09	-1.62	6.31E-09	-1.47	1.46E-09
<i>Mfsd7c</i>	1.60	2.20E-02	2.01	1.19E-02	1.97	6.31E-03
<i>Mgat4a</i>	-1.15	2.18E-08	-1.01	1.24E-07	-1.32	3.75E-09
<i>Mgea5</i>	-1.27	3.43E-08	-1.26	8.67E-08	-1.17	3.16E-08
<i>Mgst2</i>	1.94	2.77E-09	2.03	5.57E-09	2.29	2.99E-10
<i>Mgst3</i>	1.23	4.16E-04	1.04	3.16E-03	1.23	3.66E-04
<i>Mical2</i>	2.20	2.65E-05	1.21	5.69E-03	2.84	2.44E-06
<i>Micall1</i>	1.19	3.03E-09	1.14	8.67E-09	1.33	4.66E-10
<i>Mid1</i>	-0.96	6.81E-04	-1.30	1.59E-04	-1.49	1.57E-05
<i>Miip</i>	1.25	7.69E-08	1.22	2.39E-07	1.45	1.46E-08
<i>Mina</i>	1.68	4.19E-10	1.83	5.67E-10	1.70	5.19E-11
<i>Mir142hg</i>	1.08	2.40E-08	1.14	4.36E-08	1.28	3.54E-09
<i>Mir22hg</i>	-2.89	8.39E-03	-2.68	2.39E-02	-3.47	2.40E-03
<i>Mis18bp1</i>	-1.45	1.32E-03	-1.37	4.17E-03	-1.57	6.57E-04
<i>Mknk2</i>	-0.96	7.27E-08	-1.11	7.01E-08	-1.15	1.13E-08
<i>Mlycd</i>	1.10	9.81E-06	0.89	1.56E-04	1.33	1.54E-06
<i>Mmgt2</i>	1.63	3.27E-09	1.87	3.71E-09	1.62	9.96E-10
<i>Mn1</i>	-1.27	3.98E-03	-0.97	3.45E-02	-1.89	1.94E-04
<i>Mob2</i>	-1.48	2.18E-08	-1.64	2.72E-08	-1.51	8.72E-09
<i>Mob3a</i>	1.41	2.72E-08	1.45	5.76E-08	1.65	4.49E-09
<i>Mocos</i>	1.28	1.30E-04	1.07	1.27E-03	1.28	1.16E-04
<i>Morf4l2</i>	-2.04	4.52E-07	-2.32	4.38E-07	-2.77	2.57E-08
<i>Mov10</i>	2.45	7.42E-09	2.70	9.93E-09	1.38	2.19E-07
<i>Mphosph6</i>	-0.89	1.99E-04	-1.11	8.78E-05	-1.51	1.83E-06

<i>Mpp1</i>	0.92	8.98E-08	1.04	9.92E-08	1.03	2.18E-08
<i>Mpp2</i>	-1.08	1.80E-03	-1.25	1.38E-03	-1.89	1.78E-05
<i>Mpp4</i>	1.51	2.04E-04	2.24	2.14E-05	2.25	6.18E-06
<i>Mpv17l</i>	1.49	1.13E-02	1.68	1.06E-02	2.20	7.48E-04
<i>Mpz11</i>	-2.64	4.95E-05	-3.55	1.12E-05	-3.87	1.54E-06
<i>Mpz13</i>	-1.48	1.39E-07	-1.58	2.28E-07	-2.32	3.01E-09
<i>Mroh3</i>	-1.39	1.01E-02	-2.05	1.77E-03	-1.19	2.18E-02
<i>Mroh8</i>	0.88	4.54E-02	1.04	3.52E-02	1.87	3.69E-04
<i>Mrpl14</i>	1.03	3.41E-06	1.13	4.37E-06	1.13	1.17E-06
<i>Mrpl34</i>	0.94	6.52E-05	1.13	3.68E-05	1.04	2.42E-05
<i>Mrps22</i>	-1.11	1.80E-07	-1.08	6.09E-07	-1.22	5.47E-08
<i>Mrvi1</i>	-1.01	2.50E-04	-1.22	1.43E-04	-1.39	1.49E-05
<i>Ms4a4b</i>	2.24	7.90E-10	2.47	1.11E-09	2.21	1.81E-10
<i>Ms4a4c</i>	2.36	6.21E-08	2.63	7.74E-08	2.32	4.09E-08
<i>Ms4a6b</i>	1.28	4.19E-10	1.54	2.39E-10	1.27	5.19E-11
<i>Ms4a6c</i>	3.10	2.62E-09	3.31	4.19E-09	2.87	1.15E-09
<i>Ms4a6d</i>	2.94	3.30E-07	3.39	2.92E-07	1.57	5.37E-05
<i>Msh2</i>	1.06	1.92E-08	1.03	5.48E-08	1.10	6.84E-09
<i>Msra</i>	-1.11	1.82E-07	-1.18	2.91E-07	-1.12	1.04E-07
<i>Mss51</i>	1.42	4.41E-05	1.93	8.99E-06	1.71	7.82E-06
<i>Mt1</i>	-2.97	4.55E-05	-3.05	9.58E-05	-2.91	4.59E-05
<i>Mtbp</i>	-1.21	3.22E-08	-1.22	7.74E-08	-1.48	3.88E-09
<i>Mtcp1_1</i>	1.06	2.46E-06	1.32	1.13E-06	1.40	1.76E-07
<i>Mterf1b</i>	1.71	6.79E-07	1.97	5.89E-07	2.06	1.02E-07
<i>Mtjfp1</i>	1.66	4.39E-03	2.55	4.61E-04	1.68	3.67E-03
<i>Mtjfr2</i>	-1.68	3.57E-05	-1.59	1.48E-04	-2.11	4.21E-06
<i>Mthfsd</i>	1.14	2.56E-04	1.10	8.09E-04	1.34	6.32E-05
<i>Mtmr10</i>	-2.03	2.67E-06	-2.29	2.70E-06	-1.96	2.86E-06
<i>Mtmr12</i>	-1.04	2.43E-08	-1.14	3.43E-08	-1.17	5.27E-09
<i>Mtmr2</i>	-1.08	1.32E-07	-1.15	2.16E-07	-1.15	5.06E-08
<i>Mtss11</i>	-1.43	3.15E-03	-1.34	9.51E-03	-1.76	6.34E-04
<i>Muc3</i>	-2.03	3.71E-03	-1.62	2.61E-02	-1.97	4.14E-03
<i>Mustn1</i>	1.27	1.66E-04	1.27	3.91E-04	1.51	3.27E-05
<i>Mut</i>	1.00	9.08E-06	1.12	9.27E-06	1.34	5.72E-07
<i>Mvb12a</i>	1.07	2.37E-06	0.99	1.30E-05	1.20	6.69E-07
<i>Mx1</i>	-1.92	8.92E-03	-2.93	1.19E-03	-1.45	3.71E-02
<i>Mx2</i>	-1.91	2.99E-06	-2.24	2.19E-06	-1.13	2.15E-04
<i>Mxd1</i>	-1.69	9.14E-07	-1.92	9.05E-07	-2.38	3.89E-08

<i>Mxd3</i>	-1.98	1.71E-03	-2.33	1.24E-03	-2.53	2.45E-04
<i>Mxd4</i>	-1.11	5.62E-08	-1.22	7.81E-08	-1.34	7.98E-09
<i>Mxi1</i>	-1.15	1.74E-07	-1.35	1.40E-07	-1.16	1.04E-07
<i>Myb</i>	-3.14	1.23E-04	-4.38	2.08E-05	-4.39	6.15E-06
<i>Mybl1</i>	-1.07	2.52E-04	-1.05	6.95E-04	-1.09	1.90E-04
<i>Myl4</i>	-1.94	5.78E-03	-2.27	4.45E-03	-3.18	1.39E-04
<i>Mylip</i>	-1.29	1.62E-07	-1.31	3.87E-07	-1.00	9.16E-07
<i>Mylpf</i>	0.94	1.81E-05	1.27	3.79E-06	1.19	1.82E-06
<i>Myo1a</i>	1.66	4.46E-05	1.98	2.74E-05	2.44	1.33E-06
<i>Myof</i>	3.04	1.58E-03	3.01	3.71E-03	1.89	2.62E-02
<i>Mypop</i>	1.68	3.38E-05	1.28	7.37E-04	1.84	1.34E-05
<i>Mypopos</i>	1.73	5.04E-05	1.95	4.77E-05	1.91	1.76E-05
<i>Myrfl</i>	1.18	1.36E-02	1.16	2.73E-02	2.17	1.78E-04
<i>Mzfl</i>	1.34	1.67E-03	0.88	3.89E-02	1.88	1.10E-04
<i>N4bp2l1</i>	0.84	2.48E-06	1.13	6.09E-07	1.63	8.67E-09
<i>N6amt2</i>	0.98	8.02E-06	1.09	9.31E-06	1.21	1.03E-06
<i>Naalad2</i>	1.87	5.97E-05	0.96	1.51E-02	2.77	1.69E-06
<i>Nab1</i>	-1.37	1.80E-07	-1.55	1.86E-07	-1.77	1.53E-08
<i>Nab2</i>	-1.06	6.27E-07	-1.32	3.11E-07	-1.70	1.03E-08
<i>Nacad</i>	1.73	4.39E-07	1.91	5.27E-07	2.34	2.54E-08
<i>Nacc2</i>	2.41	5.44E-09	2.72	6.27E-09	3.72	1.18E-10
<i>Nadsyn1</i>	1.25	2.18E-06	1.27	5.45E-06	1.49	3.73E-07
<i>Naglu</i>	1.33	1.89E-07	1.30	5.89E-07	1.42	7.35E-08
<i>Napa</i>	-1.12	1.66E-08	-1.19	2.76E-08	-1.37	1.83E-09
<i>Napepld</i>	2.56	5.94E-08	2.82	7.86E-08	1.43	4.83E-06
<i>Nasp</i>	-1.16	2.01E-07	-1.23	3.32E-07	-1.44	2.31E-08
<i>Ncapg2</i>	-2.29	8.75E-06	-2.61	7.74E-06	-2.56	2.67E-06
<i>Ncbp1</i>	-1.30	9.42E-09	-1.46	1.11E-08	-1.65	7.63E-10
<i>Ncln</i>	1.87	2.12E-09	1.97	3.71E-09	2.32	1.53E-10
<i>Ndel1</i>	-1.25	5.20E-08	-1.45	5.01E-08	-1.45	9.54E-09
<i>Ndnf</i>	-1.82	1.53E-03	-2.98	8.45E-05	-2.64	7.43E-05
<i>Ndrg2</i>	1.21	1.59E-07	1.26	3.00E-07	1.06	3.03E-07
<i>Nebl</i>	-3.05	3.74E-04	-3.44	3.54E-04	-4.22	2.21E-05
<i>Neill</i>	-0.97	5.67E-07	-1.19	3.21E-07	-1.08	1.69E-07
<i>Neil2</i>	1.72	6.26E-04	1.62	2.26E-03	2.44	3.19E-05
<i>Nek2</i>	-2.10	7.26E-04	-2.68	2.77E-04	-3.14	2.46E-05
<i>Neto2</i>	-1.11	5.57E-08	-1.02	2.52E-07	-1.42	4.94E-09
<i>Neurl3</i>	-2.29	5.62E-07	-2.71	3.94E-07	-1.49	1.69E-05

<i>Nfe2l3</i>	0.90	6.48E-03	1.71	1.40E-04	1.55	1.06E-04
<i>Nfil3</i>	-2.07	3.38E-06	-2.71	9.94E-07	-3.25	5.53E-08
<i>Nfkb1</i>	-1.41	1.44E-08	-1.53	2.10E-08	-1.44	5.25E-09
<i>Nfkb2</i>	-2.03	4.53E-08	-2.32	4.71E-08	-2.67	3.42E-09
<i>Nfkbia</i>	-1.84	3.98E-08	-2.05	4.72E-08	-1.95	1.32E-08
<i>Nfkbib</i>	-1.56	3.14E-07	-1.79	2.88E-07	-2.09	2.04E-08
<i>Nfkbid</i>	-2.55	2.21E-07	-3.38	7.75E-08	-3.07	3.32E-08
<i>Nfkbie</i>	-1.55	1.65E-08	-2.00	8.76E-09	-1.47	1.05E-08
<i>Nfyc</i>	-1.19	4.70E-09	-1.18	1.01E-08	-1.22	1.22E-09
<i>Ngfrap1</i>	-1.01	1.37E-07	-1.18	1.13E-07	-1.40	7.20E-09
<i>Nhs1l</i>	-1.52	1.12E-05	-1.91	4.55E-06	-1.51	9.78E-06
<i>Nicn1</i>	1.50	3.06E-05	1.92	1.02E-05	1.21	1.56E-04
<i>Nif3l1</i>	-0.89	3.15E-06	-1.11	1.36E-06	-1.20	1.92E-07
<i>Nim1k</i>	1.40	5.29E-04	1.07	7.21E-03	1.25	1.09E-03
<i>Ninj1</i>	-2.08	2.25E-07	-2.63	1.06E-07	-2.93	1.03E-08
<i>Nipa1</i>	4.68	2.44E-08	4.25	1.14E-07	3.03	3.99E-07
<i>Nipa2</i>	-1.19	4.07E-08	-1.36	4.32E-08	-1.22	1.75E-08
<i>Nkrf</i>	-1.26	1.66E-06	-1.46	1.32E-06	-1.91	3.78E-08
<i>Nlrc4</i>	-1.20	9.20E-04	-1.00	6.87E-03	-1.03	2.32E-03
<i>Nmrk1</i>	-1.14	1.49E-05	-1.13	4.25E-05	-1.28	4.39E-06
<i>Nol10</i>	-1.83	2.99E-08	-2.02	4.11E-08	-2.40	2.23E-09
<i>Nol11</i>	-1.18	3.11E-07	-1.19	8.01E-07	-1.47	3.52E-08
<i>Nop58</i>	-1.11	4.70E-07	-1.11	1.27E-06	-1.82	6.74E-09
<i>Notch4</i>	2.03	5.35E-07	1.97	1.83E-06	2.63	4.32E-08
<i>Noxred1</i>	1.58	8.17E-03	1.66	1.18E-02	1.64	6.08E-03
<i>Npat</i>	-1.17	5.48E-08	-1.15	1.53E-07	-1.11	4.38E-08
<i>Npb</i>	1.44	9.31E-03	1.28	3.26E-02	1.48	7.24E-03
<i>Nptn</i>	-0.99	1.04E-06	-1.03	2.14E-06	-1.01	6.68E-07
<i>Nptx1</i>	-2.66	1.70E-03	-4.13	1.48E-04	-5.07	8.32E-06
<i>Nr1d2</i>	-1.84	2.14E-07	-2.15	1.76E-07	-2.05	5.90E-08
<i>Nr4a1</i>	-3.12	1.95E-04	-4.79	1.46E-05	-5.83	7.75E-07
<i>Nr4a2</i>	-3.48	1.52E-02	-6.12	8.07E-04	-8.56	1.82E-05
<i>Nr4a3</i>	-3.35	9.27E-04	-5.44	5.11E-05	-6.88	2.04E-06
<i>Nradd</i>	1.35	2.38E-04	1.52	2.29E-04	1.53	7.45E-05
<i>Nrip1</i>	-1.70	1.27E-06	-1.93	1.24E-06	-1.48	3.26E-06
<i>Nt5dc3</i>	-1.22	7.70E-07	-1.42	6.09E-07	-1.80	2.29E-08
<i>Nthl1</i>	1.86	6.66E-05	1.51	8.54E-04	2.30	9.10E-06
<i>Ntn4</i>	4.63	9.35E-06	3.94	9.56E-05	1.77	1.14E-02

<i>Ntrk3</i>	-1.50	1.12E-05	-1.79	6.82E-06	-1.66	3.91E-06
<i>Nuak1</i>	-2.04	4.90E-03	-2.80	1.21E-03	-2.24	2.38E-03
<i>Nucb2</i>	-0.86	4.46E-04	-1.37	2.81E-05	-1.20	2.55E-05
<i>Nudcd1</i>	1.29	2.91E-07	1.25	1.01E-06	1.31	1.81E-07
<i>Nudt15</i>	-1.43	8.24E-08	-1.82	4.39E-08	-1.44	4.69E-08
<i>Nudt18</i>	1.43	7.31E-08	1.26	5.07E-07	1.67	1.29E-08
<i>Nudt2</i>	1.55	1.02E-04	1.81	7.56E-05	1.18	7.66E-04
<i>Nudt22</i>	1.56	3.02E-06	1.42	1.77E-05	1.45	4.57E-06
<i>Nudt4</i>	-0.85	2.04E-06	-1.06	9.30E-07	-1.42	2.25E-08
<i>Nudt5</i>	1.32	4.58E-08	1.40	7.81E-08	1.32	2.55E-08
<i>Nudt7</i>	1.72	5.79E-06	1.87	7.84E-06	1.99	1.27E-06
<i>Nufip1</i>	-0.94	1.10E-06	-1.13	6.64E-07	-1.05	3.37E-07
<i>Nup210l</i>	1.66	4.33E-07	1.86	4.90E-07	2.26	2.46E-08
<i>Nup37</i>	1.07	1.84E-05	1.22	1.62E-05	1.14	9.04E-06
<i>Nup62cl</i>	-1.57	4.50E-02	-1.82	3.80E-02	-1.95	1.43E-02
<i>Nup98</i>	-1.62	3.66E-08	-1.82	4.38E-08	-2.04	3.57E-09
<i>Nxnl1</i>	3.16	8.78E-06	4.41	1.47E-06	3.47	3.12E-06
<i>Nxpe3</i>	1.87	7.11E-10	1.90	1.11E-09	2.10	5.19E-11
<i>Nyap1</i>	1.99	1.26E-06	1.69	1.34E-05	1.96	1.09E-06
<i>Oas1b</i>	1.46	3.16E-08	1.73	2.70E-08	3.02	1.34E-10
<i>Oas1c</i>	1.09	8.19E-08	0.87	1.19E-06	1.58	3.07E-09
<i>Oat</i>	-1.41	5.55E-05	-1.54	7.06E-05	-1.51	2.64E-05
<i>Ocell</i>	1.34	1.56E-08	1.39	2.98E-08	1.60	2.02E-09
<i>Ociad2</i>	1.30	1.23E-02	2.26	6.58E-04	1.54	4.07E-03
<i>Odc1</i>	-3.11	2.59E-06	-4.17	6.43E-07	-5.84	1.13E-08
<i>Ogg1</i>	0.96	6.71E-06	1.08	6.82E-06	1.05	2.48E-06
<i>Olfr755-ps1</i>	1.19	4.68E-03	1.58	1.47E-03	2.41	1.74E-05
<i>Olfr99</i>	1.42	1.17E-04	1.84	3.49E-05	2.37	1.18E-06
<i>Omal</i>	1.43	5.78E-08	1.60	7.19E-08	1.62	1.32E-08
<i>Optn</i>	-1.63	2.51E-05	-1.55	1.01E-04	-2.44	6.11E-07
<i>Orai1</i>	-1.11	1.01E-07	-1.50	3.44E-08	-1.71	2.48E-09
<i>Orai3</i>	1.40	3.08E-06	1.71	1.57E-06	1.82	2.49E-07
<i>Orc1</i>	-2.74	3.40E-05	-3.40	1.53E-05	-3.06	1.11E-05
<i>Orc6</i>	-1.17	1.23E-06	-1.28	1.69E-06	-1.34	3.06E-07
<i>Orm1</i>	0.72	2.41E-02	1.13	3.48E-03	1.07	2.07E-03
<i>Oser1</i>	-1.35	2.40E-07	-1.46	3.51E-07	-1.39	1.31E-07
<i>Otub2</i>	-1.40	1.49E-04	-1.71	7.24E-05	-1.59	4.37E-05
<i>Otulin</i>	-1.26	2.89E-08	-1.44	2.97E-08	-1.29	1.16E-08

<i>Ovgp1</i>	1.38	4.07E-08	1.33	1.31E-07	1.68	5.08E-09
<i>Oxld1</i>	1.56	2.47E-05	1.19	5.34E-04	1.75	7.39E-06
<i>Oxnad1</i>	1.50	6.12E-08	1.40	2.54E-07	1.44	4.97E-08
<i>P2rx7</i>	-1.25	9.25E-04	-1.21	2.68E-03	-1.77	5.05E-05
<i>P2ry10</i>	-1.72	6.18E-07	-1.93	6.92E-07	-2.43	2.63E-08
<i>P2ry14</i>	-3.10	1.64E-03	-5.28	6.56E-05	-6.00	6.89E-06
<i>P2ry2</i>	-2.52	3.67E-05	-3.91	2.52E-06	-5.23	5.85E-08
<i>Pabpc11</i>	-1.29	1.93E-04	-1.38	2.87E-04	-1.44	6.92E-05
<i>Pacsin3</i>	-1.77	2.75E-05	-1.96	3.19E-05	-2.04	6.72E-06
<i>Padi2</i>	-1.85	2.90E-06	-2.10	2.86E-06	-1.53	1.23E-05
<i>Pafah1b3</i>	1.14	3.26E-04	0.88	4.65E-03	1.63	1.38E-05
<i>Pagl</i>	-1.25	7.44E-09	-1.26	1.69E-08	-1.36	1.57E-09
<i>Pagr1a</i>	1.37	4.60E-08	1.46	7.73E-08	1.87	2.68E-09
<i>Paip2b</i>	-1.35	2.05E-07	-1.48	2.68E-07	-1.51	5.40E-08
<i>Pak1</i>	-1.21	7.07E-06	-1.31	9.61E-06	-1.29	3.21E-06
<i>Pank1</i>	1.06	3.69E-04	1.09	6.86E-04	1.31	5.81E-05
<i>Pank2</i>	1.08	1.67E-09	1.11	3.54E-09	1.31	1.18E-10
<i>Papln</i>	-1.51	1.88E-02	-1.39	4.91E-02	-2.09	2.42E-03
<i>Paqr3</i>	-1.99	1.12E-04	-2.28	9.38E-05	-2.28	3.01E-05
<i>Paqr7</i>	1.78	2.35E-09	1.71	6.70E-09	2.34	1.18E-10
<i>Parp11</i>	0.89	3.24E-05	1.22	5.98E-06	2.49	5.28E-09
<i>Parp16</i>	2.35	1.33E-08	2.10	6.63E-08	2.71	2.17E-09
<i>Pbx2</i>	1.36	2.56E-08	1.53	2.97E-08	1.76	2.04E-09
<i>Pbx4</i>	1.65	4.47E-05	0.99	5.00E-03	1.24	3.98E-04
<i>Pck2</i>	1.25	3.74E-08	1.30	7.36E-08	1.78	1.59E-09
<i>Pcmtd2</i>	0.84	8.02E-07	1.05	3.59E-07	1.31	1.56E-08
<i>Pcna</i>	-1.41	3.12E-07	-1.59	3.17E-07	-1.87	2.14E-08
<i>Pcnxl2</i>	3.80	4.64E-06	3.03	8.21E-05	4.06	2.06E-06
<i>Pcolce</i>	2.32	4.43E-08	2.35	1.02E-07	3.07	3.16E-09
<i>Pcsk1</i>	1.12	4.06E-03	1.24	4.45E-03	2.10	2.88E-05
<i>Pcyox1</i>	1.24	6.65E-08	1.06	5.78E-07	1.07	1.29E-07
<i>Pcyt1a</i>	-0.98	1.14E-05	-1.13	9.69E-06	-1.21	1.59E-06
<i>Pdcd1</i>	-1.33	2.29E-03	-1.82	5.44E-04	-1.93	1.19E-04
<i>Pdcd1lg2</i>	-3.00	5.03E-05	-3.41	4.52E-05	-3.38	1.53E-05
<i>Pddc1</i>	1.17	5.41E-08	1.14	1.66E-07	1.50	4.92E-09
<i>Pde2a</i>	1.48	4.70E-09	1.24	2.90E-08	2.05	2.03E-10
<i>Pde4b</i>	-1.56	6.81E-08	-1.84	5.77E-08	-1.21	3.46E-07
<i>Pde4d</i>	-1.83	1.13E-07	-2.07	1.20E-07	-2.29	1.22E-08



<i>Pde5a</i>	2.45	4.92E-07	2.81	4.48E-07	2.23	7.82E-07
<i>Pde6b</i>	2.52	2.95E-04	2.04	3.18E-03	3.07	5.11E-05
<i>Pde6d</i>	1.44	1.06E-08	1.61	1.33E-08	1.71	1.38E-09
<i>Pde6g</i>	1.83	1.68E-02	2.41	6.58E-03	3.02	5.62E-04
<i>Pdhx</i>	-1.12	1.01E-06	-1.15	2.33E-06	-1.23	3.40E-07
<i>Pdk2</i>	1.14	1.80E-07	1.11	5.72E-07	1.54	1.10E-08
<i>Pdssl</i>	-1.07	1.20E-06	-1.08	2.96E-06	-1.70	1.89E-08
<i>Pdxk</i>	-0.79	1.44E-06	-1.01	5.25E-07	-1.05	9.33E-08
<i>Penk</i>	-1.91	6.63E-03	-3.16	4.40E-04	-1.99	4.73E-03
<i>Per1</i>	-2.40	1.10E-07	-3.11	4.71E-08	-3.24	7.00E-09
<i>Per2</i>	-3.17	2.60E-05	-4.27	5.71E-06	-5.23	2.76E-07
<i>Pex6</i>	1.78	1.27E-08	1.95	1.74E-08	2.19	1.31E-09
<i>Pfkip</i>	-1.38	1.94E-07	-1.61	1.64E-07	-1.46	8.11E-08
<i>Pgpep1</i>	1.92	2.67E-06	1.37	1.16E-04	1.67	6.98E-06
<i>Phactr2</i>	-1.12	1.78E-07	-0.83	5.04E-06	-1.45	1.50E-08
<i>Phactr4</i>	1.07	1.55E-07	0.86	2.24E-06	1.19	4.09E-08
<i>Phf11d</i>	0.52	3.30E-02	1.17	4.25E-04	1.80	3.70E-06
<i>Phf23</i>	1.62	1.11E-08	1.87	1.12E-08	1.76	2.59E-09
<i>Phf5a</i>	-1.13	1.56E-08	-1.09	4.71E-08	-1.19	4.73E-09
<i>Phf6</i>	-1.80	2.27E-08	-2.09	2.20E-08	-2.16	2.98E-09
<i>Phlda1</i>	-1.98	2.64E-06	-2.34	1.85E-06	-3.58	1.54E-08
<i>Phlda3</i>	2.53	8.83E-05	1.30	2.01E-02	1.84	9.56E-04
<i>Phldb1</i>	1.78	2.38E-06	1.88	4.13E-06	1.59	5.09E-06
<i>Phyhd1</i>	2.26	1.27E-03	1.69	1.68E-02	2.65	3.45E-04
<i>Pi4k2a</i>	-1.12	1.38E-07	-1.24	1.64E-07	-1.19	5.20E-08
<i>Pi4k2b</i>	-1.21	1.55E-06	-1.31	2.22E-06	-1.43	2.74E-07
<i>Pigh</i>	1.09	2.53E-06	1.14	4.87E-06	1.11	1.71E-06
<i>Pigv</i>	1.07	1.10E-06	1.25	8.52E-07	1.70	1.84E-08
<i>Pigx</i>	1.00	2.18E-08	1.08	3.29E-08	1.04	7.83E-09
<i>Pik3ap1</i>	-1.18	4.51E-03	-1.85	4.15E-04	-1.78	1.95E-04
<i>Pik3r1</i>	-1.08	4.26E-08	-1.30	3.34E-08	-1.02	3.63E-08
<i>Pik3r5</i>	1.43	3.33E-08	1.40	9.58E-08	1.27	4.32E-08
<i>Pja2</i>	0.98	2.69E-08	1.02	5.11E-08	1.16	3.87E-09
<i>Pla2g4c</i>	1.47	2.31E-03	2.10	3.91E-04	1.48	1.97E-03
<i>Plagl1</i>	-3.29	1.79E-03	-3.88	1.23E-03	-5.68	2.03E-05
<i>Plau</i>	-1.29	2.17E-02	1.23	4.54E-02	-1.22	2.60E-02
<i>Plaur</i>	-2.88	1.06E-04	-4.17	1.30E-05	-4.21	3.51E-06
<i>Plcb3</i>	1.57	2.71E-06	1.69	4.08E-06	1.31	1.08E-05

<i>Plcxd2</i>	-1.91	3.84E-08	-2.24	3.49E-08	-2.62	2.09E-09
<i>Plekhg5</i>	1.17	1.11E-04	0.92	1.68E-03	1.03	2.67E-04
<i>Plekhh1</i>	1.24	6.20E-03	1.20	1.44E-02	1.21	6.44E-03
<i>Plin3</i>	1.05	5.19E-07	1.31	2.48E-07	1.26	7.68E-08
<i>Plk2</i>	-2.38	2.54E-04	-3.13	7.22E-05	-4.38	1.22E-06
<i>Plk3</i>	-1.60	4.47E-06	-1.99	1.92E-06	-2.09	3.41E-07
<i>Plk4</i>	-1.58	1.82E-05	-1.90	1.01E-05	-1.87	3.45E-06
<i>Pllp</i>	1.86	4.61E-04	1.07	3.19E-02	2.59	2.66E-05
<i>Plod3</i>	1.61	1.83E-08	1.58	4.97E-08	1.77	4.31E-09
<i>Plp1</i>	1.15	1.38E-06	1.38	8.98E-07	1.31	3.42E-07
<i>Plscr4</i>	1.51	1.84E-02	2.82	6.78E-04	1.98	3.35E-03
<i>Plxna1</i>	-0.77	1.16E-05	-1.02	3.16E-06	-1.68	1.39E-08
<i>Pmaip1</i>	-1.98	9.20E-04	-2.47	4.15E-04	-2.13	4.87E-04
<i>Pmepa1</i>	-1.33	3.07E-08	-1.46	4.33E-08	-1.89	1.34E-09
<i>Pno1</i>	-1.74	8.02E-06	-1.72	2.32E-05	-2.24	7.02E-07
<i>Pnpla8</i>	-1.50	6.74E-07	-1.73	5.88E-07	-1.67	1.95E-07
<i>Pnrcl</i>	-1.27	3.13E-07	-1.53	2.00E-07	-1.20	3.39E-07
<i>Poc1a</i>	-1.06	1.17E-02	-1.22	9.87E-03	-1.51	1.03E-03
<i>Poldip3</i>	-0.95	6.22E-08	-1.03	9.19E-08	-1.01	2.17E-08
<i>Polg</i>	-1.02	3.98E-08	-1.15	4.55E-08	-1.01	2.28E-08
<i>Polg2</i>	-1.46	1.38E-07	-1.87	6.54E-08	-1.85	1.36E-08
<i>Polk</i>	1.03	1.62E-05	1.21	1.19E-05	1.06	1.08E-05
<i>Poll</i>	1.01	3.14E-05	1.15	2.71E-05	1.16	7.84E-06
<i>Polr2d</i>	-1.17	1.98E-06	-1.38	1.48E-06	-1.58	1.18E-07
<i>Pom121</i>	-1.00	7.88E-08	-1.11	9.44E-08	-1.27	7.30E-09
<i>Pomk</i>	1.08	1.24E-06	1.19	1.52E-06	1.27	2.40E-07
<i>Pop4</i>	-1.12	4.93E-06	-1.11	1.52E-05	-1.19	2.47E-06
<i>Pou2f2</i>	1.05	2.71E-05	1.09	5.13E-05	1.09	1.69E-05
<i>Ppfial</i>	-0.91	1.64E-08	-1.04	1.74E-08	-1.14	1.46E-09
<i>Ppil4</i>	-1.15	1.09E-07	-1.18	2.29E-07	-1.16	5.88E-08
<i>Ppm1e</i>	1.25	1.31E-04	1.17	5.45E-04	1.09	3.41E-04
<i>Ppm1m</i>	1.75	6.18E-08	1.68	2.11E-07	1.44	1.72E-07
<i>Ppp1r13l</i>	2.39	2.49E-06	2.55	4.12E-06	1.43	1.68E-04
<i>Ppp1r15a</i>	-1.83	3.72E-07	-2.34	1.48E-07	-2.33	3.51E-08
<i>Ppp1r16b</i>	-1.91	6.18E-08	-2.13	7.55E-08	-1.05	5.67E-06
<i>Ppp1r18os</i>	1.24	3.26E-02	1.66	1.26E-02	1.72	4.75E-03
<i>Ppp1r3e</i>	1.64	2.55E-08	1.59	7.76E-08	1.30	7.85E-08
<i>Ppp1r3f</i>	1.75	7.94E-09	1.73	2.01E-08	1.46	1.07E-08

<i>Ppp1r3fos</i>	1.91	1.73E-04	2.39	7.08E-05	1.05	1.07E-02
<i>Ppp1r9b</i>	1.06	5.86E-08	0.99	2.43E-07	1.02	4.40E-08
<i>Ppp2ca</i>	-1.45	1.12E-06	-1.79	5.77E-07	-1.94	7.25E-08
<i>Ppp2r1b</i>	-1.00	7.56E-08	-1.16	7.33E-08	-1.28	7.20E-09
<i>Ppp2r2a</i>	-1.04	2.36E-07	-1.07	4.95E-07	-1.05	1.41E-07
<i>Ppp2r2d</i>	-1.25	6.06E-07	-1.36	8.54E-07	-1.44	1.32E-07
<i>Ppp2r3a</i>	1.21	1.54E-05	1.55	5.16E-06	1.30	6.46E-06
<i>Ppp3r1</i>	-1.22	9.07E-07	-1.50	4.93E-07	-1.32	3.41E-07
<i>Pptc7</i>	-0.94	1.17E-08	-1.04	1.56E-08	-1.02	2.83E-09
<i>Prdm1</i>	0.97	9.07E-07	1.28	2.74E-07	1.27	6.87E-08
<i>Prdm8</i>	-1.92	1.88E-03	-2.38	9.23E-04	-1.53	7.69E-03
<i>Prdx6</i>	-1.42	6.13E-09	-1.58	8.67E-09	-1.83	4.66E-10
<i>Prep</i>	-0.99	4.00E-08	-1.02	8.10E-08	-1.38	2.03E-09
<i>Prkab2</i>	-0.94	4.99E-06	-1.06	4.80E-06	-1.87	1.25E-08
<i>Prkar1b</i>	2.63	4.17E-06	2.89	5.17E-06	2.00	3.55E-05
<i>Prkd2</i>	1.08	6.89E-09	1.06	1.74E-08	1.75	1.18E-10
<i>Prkx</i>	-0.95	4.07E-07	-1.07	4.21E-07	-1.11	7.70E-08
<i>Prlr</i>	-1.77	6.88E-03	-2.01	6.39E-03	-1.85	4.71E-03
<i>Prmt2</i>	2.01	2.49E-08	1.70	1.86E-07	1.85	2.23E-08
<i>Pros1</i>	1.73	1.24E-03	2.15	5.77E-04	1.06	2.39E-02
<i>Proser3</i>	2.13	2.03E-08	2.16	4.51E-08	2.93	1.04E-09
<i>Prox2</i>	0.99	6.81E-04	1.43	9.50E-05	1.01	5.46E-04
<i>Prpf38a</i>	-1.14	5.02E-08	-1.23	7.74E-08	-1.24	1.46E-08
<i>Prpf40b</i>	1.08	1.51E-07	1.05	4.83E-07	1.11	7.45E-08
<i>Prps1l3</i>	-1.20	6.09E-04	-0.92	8.15E-03	-1.38	1.77E-04
<i>Prr11</i>	-2.06	2.42E-03	-1.77	1.26E-02	-1.90	3.80E-03
<i>Prr12</i>	0.96	1.32E-06	1.04	1.89E-06	1.02	6.16E-07
<i>Prrg2</i>	0.83	2.16E-03	1.06	8.62E-04	1.29	6.56E-05
<i>Prrt2</i>	2.50	1.10E-06	2.28	6.63E-06	2.53	7.43E-07
<i>Prss36</i>	0.96	3.91E-02	1.33	1.33E-02	1.35	5.74E-03
<i>Psd</i>	-2.00	4.64E-06	-1.93	1.71E-05	-2.53	4.91E-07
<i>Psen1</i>	-0.94	2.28E-07	-1.01	3.34E-07	-1.17	2.45E-08
<i>Psemb8</i>	0.94	2.33E-08	1.10	2.13E-08	1.74	2.02E-10
<i>Psemb9</i>	0.87	1.27E-06	1.14	4.14E-07	2.78	2.03E-10
<i>Psmid9</i>	-1.14	6.27E-06	-1.20	1.07E-05	-1.13	5.19E-06
<i>Pspc1</i>	-1.48	1.38E-07	-1.72	1.23E-07	-1.85	1.53E-08
<i>Pstk</i>	2.16	5.36E-05	2.24	1.01E-04	2.10	5.67E-05
<i>Pstpip2</i>	-2.02	1.75E-04	-2.22	2.04E-04	-1.66	7.15E-04

<i>Ptbp1</i>	-1.25	8.67E-09	-1.42	1.01E-08	-1.47	1.20E-09
<i>Ptbp2</i>	-1.06	2.82E-07	-1.15	3.87E-07	-1.14	1.01E-07
<i>Ptdss2</i>	1.33	5.45E-07	1.38	1.11E-06	1.45	1.85E-07
<i>Ptp4a1</i>	-2.97	2.56E-07	-3.63	1.53E-07	-3.20	9.56E-08
<i>Ptpn22</i>	-1.20	2.12E-08	-1.40	2.07E-08	-1.42	2.99E-09
<i>Ptpru</i>	-1.72	2.32E-02	-2.12	1.38E-02	-2.23	4.70E-03
<i>Ptrf</i>	-2.50	4.12E-04	-1.59	1.78E-02	-2.11	1.33E-03
<i>Pts</i>	1.12	4.65E-07	0.90	7.88E-06	1.59	1.90E-08
<i>Pura</i>	0.90	7.63E-07	1.06	5.48E-07	1.18	5.65E-08
<i>Pvrl1</i>	-1.64	1.67E-02	-2.34	3.98E-03	-2.43	1.28E-03
<i>Pwwp2b</i>	-1.84	6.19E-05	-2.19	3.94E-05	-2.65	2.30E-06
<i>Pxmp4</i>	1.34	6.70E-09	1.55	7.67E-09	1.37	2.24E-09
<i>Pygl</i>	-1.90	1.98E-04	-3.19	7.24E-06	-2.39	2.59E-05
<i>Pyhin1</i>	0.87	1.27E-07	1.03	9.85E-08	1.64	8.28E-10
<i>Qk</i>	-1.14	3.72E-07	-1.23	5.26E-07	-1.20	1.62E-07
<i>Qprt</i>	1.47	4.02E-09	1.47	8.67E-09	2.09	1.43E-10
<i>Qrich2</i>	0.98	4.10E-03	1.46	5.49E-04	1.52	1.44E-04
<i>R74862</i>	1.28	1.51E-04	1.56	7.53E-05	1.83	6.04E-06
<i>Rab11fip5</i>	-1.55	2.42E-05	-1.60	4.89E-05	-1.77	6.45E-06
<i>Rab5a</i>	-1.03	3.74E-06	-0.99	1.43E-05	-1.05	2.62E-06
<i>Rab5b</i>	0.91	6.72E-07	1.21	1.88E-07	1.20	4.55E-08
<i>Rab6b</i>	1.91	7.85E-09	1.98	1.49E-08	2.12	1.43E-09
<i>Rabgap1l</i>	1.71	1.67E-09	1.81	2.88E-09	1.10	7.34E-09
<i>Racgap1</i>	1.54	8.60E-08	1.04	5.26E-06	1.18	4.94E-07
<i>Rad54b</i>	-1.76	2.64E-03	-1.34	2.56E-02	-1.56	5.37E-03
<i>Ramp3</i>	-3.40	8.51E-04	-5.36	5.92E-05	-6.28	4.77E-06
<i>Ranbp2</i>	-1.18	3.46E-07	-1.24	6.36E-07	-1.22	1.88E-07
<i>Rap1b</i>	-1.16	6.59E-07	-1.27	8.56E-07	-1.12	6.21E-07
<i>Rap1gap2</i>	-3.21	1.87E-02	-3.98	1.07E-02	-4.69	1.64E-03
<i>Raph1</i>	-1.68	8.55E-08	-1.81	1.27E-07	-1.49	1.40E-07
<i>Rarg</i>	1.53	8.81E-08	1.76	8.23E-08	1.45	7.80E-08
<i>Rasall</i>	-1.95	1.41E-06	-2.38	7.60E-07	-2.93	3.54E-08
<i>Rasgef1b</i>	-2.25	1.16E-05	-2.88	3.98E-06	-3.22	4.12E-07
<i>Rasgrp4</i>	-2.93	8.38E-03	-3.89	2.85E-03	-4.59	3.30E-04
<i>Rassf3</i>	-1.36	1.74E-07	-1.65	1.13E-07	-1.54	4.21E-08
<i>Rassf8</i>	-2.08	5.92E-05	-2.44	4.23E-05	-1.84	1.41E-04
<i>Rbbp8</i>	-1.86	1.32E-07	-2.21	9.65E-08	-2.47	9.15E-09
<i>Rbbp9</i>	1.47	1.50E-07	1.25	1.47E-06	1.89	1.37E-08

<i>Rbm12</i>	-2.12	5.14E-04	-2.35	5.63E-04	-2.32	2.25E-04
<i>Rbm14</i>	-1.37	1.96E-05	-1.51	2.42E-05	-1.17	6.57E-05
<i>Rbm18</i>	-1.04	2.97E-08	-1.12	4.62E-08	-1.07	1.22E-08
<i>Rbm20</i>	1.12	3.01E-02	1.22	3.48E-02	1.60	3.68E-03
<i>Rbm27</i>	-1.09	3.27E-07	-1.14	6.10E-07	-1.14	1.49E-07
<i>Rbm3</i>	-1.09	8.52E-08	-1.29	6.99E-08	-1.37	9.28E-09
<i>Rbm39</i>	-1.07	1.15E-07	-1.11	2.26E-07	-1.05	8.29E-08
<i>Rbpj</i>	-1.46	3.97E-07	-1.49	9.37E-07	-1.59	1.38E-07
<i>Rbpms</i>	2.60	8.71E-05	2.63	1.97E-04	1.51	4.45E-03
<i>Rcll</i>	-1.27	4.79E-08	-1.26	1.34E-07	-1.92	1.43E-09
<i>Rcn1</i>	2.32	3.97E-08	2.51	5.78E-08	1.27	3.30E-06
<i>Rcor3</i>	1.38	4.31E-08	1.36	1.22E-07	1.59	8.14E-09
<i>Rdh5</i>	1.75	6.21E-08	1.63	2.72E-07	2.38	3.77E-09
<i>Rdm1</i>	1.83	1.50E-07	1.73	6.14E-07	2.20	2.17E-08
<i>Recql4</i>	-2.21	1.11E-05	-2.74	4.97E-06	-2.66	1.81E-06
<i>Rel</i>	-2.14	3.23E-07	-2.56	2.23E-07	-2.31	1.18E-07
<i>Rela</i>	-1.09	2.18E-08	-1.25	2.35E-08	-1.10	9.78E-09
<i>Relb</i>	-2.16	8.81E-08	-2.50	8.23E-08	-2.70	9.54E-09
<i>Rell1</i>	-1.54	1.66E-07	-2.01	6.66E-08	-2.34	4.40E-09
<i>Relt</i>	1.02	1.38E-07	1.02	3.76E-07	1.15	3.29E-08
<i>Rem2</i>	-1.77	1.75E-02	-1.63	4.50E-02	-1.84	1.29E-02
<i>Reps1</i>	-1.63	1.79E-08	-1.90	1.74E-08	-1.96	2.21E-09
<i>Rest</i>	-1.17	2.36E-07	-1.39	1.74E-07	-1.17	1.67E-07
<i>Rfc3</i>	-1.41	1.71E-05	-1.40	5.04E-05	-1.52	7.84E-06
<i>Rfesd</i>	1.19	1.58E-05	1.32	1.90E-05	1.89	2.45E-07
<i>Rgl1</i>	-2.94	2.46E-06	-2.99	5.92E-06	-3.07	1.32E-06
<i>Rgs14</i>	0.94	8.68E-08	1.01	1.42E-07	1.24	6.75E-09
<i>Rgs16</i>	-2.55	8.80E-03	-3.08	5.59E-03	-4.09	2.92E-04
<i>Rgs2</i>	-3.01	5.60E-05	-4.19	9.25E-06	-4.52	1.40E-06
<i>Rhbdf1</i>	-2.41	6.79E-03	-2.91	4.28E-03	-3.06	1.24E-03
<i>Rhbdl3</i>	1.35	2.14E-05	1.12	2.52E-04	1.04	1.64E-04
<i>Rhod</i>	-2.15	4.37E-04	-3.14	5.35E-05	-1.36	9.29E-03
<i>Rhog</i>	-1.23	1.48E-08	-1.44	1.41E-08	-1.45	2.04E-09
<i>Rhpn2</i>	-2.94	7.78E-05	-2.80	2.89E-04	-4.10	3.75E-06
<i>Rilpl2</i>	-0.92	4.94E-07	-1.33	8.25E-08	-1.09	8.24E-08
<i>Rin2</i>	-2.16	3.01E-04	-3.49	1.57E-05	-3.74	2.50E-06
<i>Riok1</i>	-1.81	2.33E-07	-2.08	2.18E-07	-2.30	2.28E-08
<i>Ripk2</i>	-1.82	5.78E-08	-1.93	9.81E-08	-1.81	3.40E-08

<i>Rlf</i>	-1.34	1.88E-07	-1.47	2.43E-07	-1.36	1.12E-07
<i>Rlim</i>	-1.31	2.05E-07	-1.41	2.97E-07	-1.51	4.21E-08
<i>Rmi2</i>	2.22	3.21E-08	2.52	3.52E-08	2.89	2.44E-09
<i>Rmnd1</i>	1.02	7.89E-09	1.16	8.67E-09	1.21	9.40E-10
<i>Rnaset2b</i>	1.06	9.63E-08	1.03	3.16E-07	1.04	6.68E-08
<i>Rnd1</i>	-1.41	3.34E-03	-1.56	3.60E-03	-1.79	5.45E-04
<i>Rnf103</i>	-1.15	2.53E-07	-1.32	2.34E-07	-1.10	2.62E-07
<i>Rnf125</i>	-2.22	1.38E-06	-2.74	6.74E-07	-2.70	1.96E-07
<i>Rnf135</i>	0.98	4.95E-04	1.41	6.51E-05	1.74	3.39E-06
<i>Rnf145</i>	-1.48	5.21E-08	-1.62	7.26E-08	-1.42	3.96E-08
<i>Rnf149</i>	-1.11	9.69E-08	-1.32	7.58E-08	-1.31	1.58E-08
<i>Rnf185</i>	-1.01	6.26E-06	-1.23	3.40E-06	-1.12	2.06E-06
<i>Rnf19a</i>	-1.78	3.33E-07	-2.09	2.60E-07	-2.08	6.48E-08
<i>Rnf19b</i>	-1.14	7.13E-07	-1.22	1.17E-06	-1.10	7.38E-07
<i>Rnf2</i>	-1.10	8.01E-07	-1.15	1.45E-06	-1.16	3.53E-07
<i>Rnf208</i>	-1.53	2.65E-02	-1.89	1.61E-02	-2.09	4.14E-03
<i>Rnf24</i>	-1.98	2.29E-07	-2.36	1.66E-07	-2.70	1.36E-08
<i>Rnf32</i>	1.61	1.35E-05	1.42	1.01E-04	2.63	1.56E-07
<i>Rnf39</i>	-2.76	8.28E-04	-3.50	3.26E-04	-1.55	2.80E-02
<i>Rnf4</i>	-1.22	1.50E-07	-1.28	2.68E-07	-1.34	4.35E-08
<i>Rnf41</i>	1.00	2.63E-09	1.08	4.20E-09	1.09	4.66E-10
<i>Rnf5</i>	1.52	6.57E-09	1.58	1.27E-08	1.51	2.57E-09
<i>Rora</i>	-1.97	2.90E-07	-2.40	1.75E-07	-2.04	1.55E-07
<i>RP23-113O9.4</i>	2.01	9.81E-04	1.35	2.45E-02	2.66	9.70E-05
<i>RP23-286M3.5</i>	2.12	7.73E-03	2.33	8.70E-03	3.29	3.23E-04
<i>RP23-364E18.2</i>	2.21	3.27E-05	2.80	1.20E-05	3.27	9.02E-07
<i>RP23-441I24.5</i>	1.14	5.54E-05	1.78	3.55E-06	1.94	4.55E-07
<i>RP24-140D11.4</i>	-2.45	1.30E-04	-1.97	1.61E-03	-2.19	2.77E-04
<i>RP24-492O4.9</i>	-1.27	3.64E-02	-1.43	3.59E-02	-1.99	2.50E-03
<i>Rp2h</i>	1.22	1.09E-07	1.30	1.73E-07	1.28	4.39E-08
<i>Rpl22l1</i>	-1.36	1.99E-07	-1.21	1.38E-06	-1.65	2.81E-08
<i>Rpl23a</i>	-1.02	2.49E-06	-0.99	8.70E-06	-1.37	1.52E-07
<i>Rprd1a</i>	1.11	7.05E-07	1.52	1.66E-07	1.34	1.02E-07
<i>Rps6kl1</i>	-1.86	5.62E-06	-2.19	3.79E-06	-2.03	2.04E-06
<i>Rrad</i>	-1.92	1.05E-07	-2.39	5.96E-08	-2.48	8.94E-09
<i>Rras</i>	0.89	1.78E-04	1.10	8.45E-05	1.21	1.22E-05
<i>Rras2</i>	-1.93	1.54E-07	-2.16	1.74E-07	-2.67	8.17E-09
<i>Rrm2b</i>	1.70	2.90E-08	1.77	5.29E-08	1.94	5.30E-09

<i>Rrp12</i>	-1.29	2.82E-08	-1.37	4.61E-08	-2.13	4.66E-10
<i>Rrp15</i>	-1.31	6.19E-07	-1.54	4.68E-07	-2.11	9.98E-09
<i>Rslcan18</i>	1.63	3.83E-02	2.27	1.26E-02	2.00	1.27E-02
<i>Rsph10b</i>	1.49	8.71E-04	1.94	2.80E-04	2.52	1.02E-05
<i>Rufy4</i>	1.48	7.47E-05	1.18	1.04E-03	1.75	1.51E-05
<i>Rundc3b</i>	-1.24	8.07E-07	-1.24	2.17E-06	-1.12	1.40E-06
<i>Rwdd3</i>	0.99	5.59E-04	1.11	5.61E-04	1.40	2.92E-05
<i>Rybp</i>	-1.35	4.97E-07	-1.49	6.14E-07	-1.53	1.26E-07
<i>S100a10</i>	1.36	1.65E-09	1.60	1.27E-09	1.69	8.35E-11
<i>S100a11</i>	1.12	3.90E-05	1.12	1.01E-04	1.09	4.11E-05
<i>S1pr4</i>	0.99	4.12E-08	1.10	4.94E-08	1.35	2.37E-09
<i>Sag</i>	1.47	5.85E-07	1.30	4.68E-06	2.09	2.40E-08
<i>Samd1</i>	1.69	1.59E-08	1.64	4.62E-08	1.67	7.73E-09
<i>Samd14</i>	1.23	2.29E-03	0.89	3.08E-02	1.50	4.90E-04
<i>Samd8</i>	-1.74	1.37E-07	-2.01	1.24E-07	-2.00	2.82E-08
<i>Samd9l</i>	0.75	1.04E-05	1.03	2.00E-06	1.82	5.77E-09
<i>Samhd1</i>	1.31	1.52E-08	1.61	1.05E-08	4.09	6.19E-12
<i>Samsn1</i>	-1.44	3.96E-06	-1.62	3.99E-06	-2.01	1.72E-07
<i>Sap30bp</i>	-1.08	1.53E-08	-1.19	2.01E-08	-1.14	4.59E-09
<i>Sapcd2</i>	-2.01	4.03E-03	-3.21	3.21E-04	-3.06	1.64E-04
<i>Sarm1</i>	2.04	6.04E-09	2.04	1.40E-08	1.84	4.44E-09
<i>Sass6</i>	0.75	2.08E-04	1.09	2.52E-05	1.12	6.11E-06
<i>Sbsn</i>	1.58	1.53E-07	1.38	1.15E-06	2.11	1.02E-08
<i>Sbspon</i>	1.73	1.30E-02	1.52	4.40E-02	2.30	1.99E-03
<i>Scai</i>	0.87	1.06E-07	1.10	5.48E-08	1.16	7.30E-09
<i>Scamp1</i>	-1.85	9.62E-05	-2.39	2.97E-05	-3.07	1.01E-06
<i>Scarfl</i>	2.10	6.00E-07	2.64	2.68E-07	2.49	1.03E-07
<i>Scd1</i>	-1.24	4.07E-04	-1.94	2.68E-05	-1.43	1.09E-04
<i>Scd2</i>	-2.17	1.80E-07	-2.68	1.02E-07	-2.85	1.38E-08
<i>Scfd2</i>	-0.79	1.68E-05	-1.05	4.38E-06	-1.14	5.99E-07
<i>Scn11a</i>	-1.36	3.91E-02	-3.08	4.97E-04	-2.07	3.37E-03
<i>Scrn3</i>	1.11	3.71E-06	0.96	3.48E-05	1.61	1.20E-07
<i>Scrt1</i>	-1.73	4.39E-03	-1.78	7.51E-03	-1.32	2.00E-02
<i>Sdad1</i>	-1.06	2.37E-08	-1.11	4.51E-08	-1.28	2.99E-09
<i>Sdc1</i>	-1.56	3.07E-02	-2.39	5.29E-03	-2.67	1.05E-03
<i>Sde2</i>	-1.23	1.95E-07	-1.47	1.38E-07	-1.38	5.00E-08
<i>Sdhaf3</i>	1.50	5.92E-06	1.43	2.31E-05	1.43	7.21E-06
<i>Sec14l1</i>	1.13	1.79E-06	1.17	3.60E-06	1.22	6.93E-07

<i>Sec24d</i>	-1.06	3.85E-07	-1.11	7.14E-07	-1.62	9.07E-09
<i>Sec62</i>	-1.06	6.47E-08	-1.05	1.73E-07	-1.08	3.28E-08
<i>Sele</i>	0.80	8.25E-03	1.65	1.01E-04	2.57	6.78E-07
<i>Selk</i>	-1.18	2.56E-08	-1.31	3.33E-08	-1.30	6.36E-09
<i>Sell</i>	1.71	7.11E-10	1.76	1.11E-09	2.54	8.65E-12
<i>Selo</i>	1.21	3.74E-08	1.22	8.68E-08	1.35	8.78E-09
<i>Senp8</i>	2.18	3.07E-07	1.98	1.82E-06	2.67	4.02E-08
<i>Sepr1</i>	-1.89	1.71E-06	-2.07	2.21E-06	-2.66	7.16E-08
<i>Sept4</i>	2.49	7.96E-07	2.38	3.16E-06	2.00	4.07E-06
<i>Serf1</i>	1.95	8.85E-05	1.89	2.85E-04	1.34	1.40E-03
<i>Serinc1</i>	-1.51	1.88E-07	-1.65	2.54E-07	-1.57	8.57E-08
<i>Sertad3</i>	1.53	1.57E-08	1.80	1.47E-08	1.66	3.88E-09
<i>Sesn2</i>	-1.68	3.45E-05	-2.25	8.04E-06	-2.56	7.64E-07
<i>Sf3b4</i>	-0.92	1.31E-07	-1.02	1.61E-07	-1.12	1.71E-08
<i>Sfmbt1</i>	-1.18	5.49E-07	-1.28	7.39E-07	-1.23	2.68E-07
<i>Sfpq</i>	-1.31	5.78E-08	-1.33	1.32E-07	-1.41	1.85E-08
<i>Sfxn4</i>	1.32	1.84E-06	1.66	7.51E-07	1.95	5.03E-08
<i>Sgip1</i>	-2.04	6.48E-04	-2.19	9.07E-04	-2.49	1.19E-04
<i>Sgms1</i>	-1.94	5.72E-07	-2.27	4.39E-07	-1.39	7.56E-06
<i>Sgtb</i>	-2.75	6.26E-06	-3.89	9.66E-07	-4.03	1.82E-07
<i>Sh2d2a</i>	-1.74	4.64E-08	-2.00	4.71E-08	-1.48	9.56E-08
<i>Sh2d3c</i>	2.19	5.89E-09	2.13	1.59E-08	2.47	9.32E-10
<i>Sh2d5</i>	1.66	8.82E-03	1.88	8.31E-03	2.12	1.63E-03
<i>Sh3d21</i>	-1.12	1.00E-02	-1.11	1.96E-02	-1.05	1.32E-02
<i>Sh3pxd2a</i>	-1.19	1.21E-08	-1.27	1.97E-08	-1.37	1.97E-09
<i>Shb</i>	-2.22	4.13E-06	-2.77	1.85E-06	-3.95	2.56E-08
<i>Shcbp1</i>	-2.73	1.05E-02	-2.84	1.57E-02	-3.77	1.14E-03
<i>Shd</i>	-1.99	1.82E-02	-2.42	1.18E-02	-2.13	1.17E-02
<i>Shisa8</i>	1.59	1.63E-03	1.78	1.68E-03	1.67	1.06E-03
<i>Siah2</i>	-1.29	3.19E-07	-1.46	3.10E-07	-1.46	7.72E-08
<i>Sidt2</i>	-1.02	2.99E-08	-1.15	3.52E-08	-1.13	7.11E-09
<i>Sigirr</i>	1.81	2.63E-09	1.68	8.67E-09	2.18	2.32E-10
<i>Sik1</i>	-2.62	3.97E-06	-3.46	1.10E-06	-4.13	6.38E-08
<i>Sike1</i>	1.52	2.33E-08	1.71	2.71E-08	1.84	2.89E-09
<i>Sirt3</i>	1.03	8.94E-05	0.94	4.52E-04	1.18	2.28E-05
<i>Sirt5</i>	1.38	2.61E-05	1.89	5.15E-06	1.46	1.36E-05
<i>Sirt6</i>	1.23	1.45E-07	1.07	1.11E-06	1.45	2.43E-08
<i>Six1</i>	-2.72	4.82E-03	-4.71	2.08E-04	-5.58	1.65E-05



<i>Six4</i>	-3.06	1.02E-03	-4.31	1.81E-04	-5.17	1.27E-05
<i>Ska3</i>	-2.18	3.37E-03	-2.83	1.20E-03	-3.00	2.93E-04
<i>Ski</i>	-0.95	2.08E-09	-1.12	1.95E-09	-1.04	2.83E-10
<i>Skil</i>	-2.04	2.13E-07	-2.33	2.06E-07	-2.40	3.84E-08
<i>Slamf6</i>	2.09	1.65E-09	2.25	2.25E-09	1.09	2.80E-08
<i>Slbp</i>	-0.85	7.51E-05	-1.10	2.34E-05	-1.51	4.68E-07
<i>Slc15a1</i>	-2.85	3.17E-03	-3.09	3.92E-03	-3.56	5.76E-04
<i>Slc16a1</i>	-1.64	8.74E-07	-1.98	5.16E-07	-2.72	1.05E-08
<i>Slc16a13</i>	1.07	1.75E-04	0.87	1.94E-03	1.00	2.63E-04
<i>Slc16a3</i>	-1.40	3.07E-04	-1.79	1.12E-04	-1.63	7.99E-05
<i>Slc16a4</i>	1.10	1.01E-02	1.44	3.74E-03	1.05	1.19E-02
<i>Slc17a5</i>	1.28	6.13E-09	1.26	1.58E-08	1.52	7.15E-10
<i>Slc17a9</i>	2.80	4.70E-09	3.01	7.55E-09	1.52	1.47E-07
<i>Slc19a2</i>	-0.98	1.02E-04	-1.04	1.57E-04	-1.04	5.20E-05
<i>Slc1a4</i>	-3.44	8.00E-04	-2.82	6.74E-03	-3.78	3.46E-04
<i>Slc22a15</i>	-1.61	1.78E-04	-1.10	6.15E-03	-2.06	1.91E-05
<i>Slc22a23</i>	1.11	3.38E-04	1.09	9.34E-04	2.58	2.20E-07
<i>Slc23a2</i>	-1.03	1.07E-07	-1.12	1.54E-07	-1.08	4.45E-08
<i>Slc25a19</i>	1.02	2.35E-09	1.01	5.69E-09	1.04	5.75E-10
<i>Slc25a23</i>	1.07	7.19E-07	1.17	1.02E-06	1.04	7.09E-07
<i>Slc25a25</i>	-0.93	1.29E-08	-1.08	1.27E-08	-1.44	3.10E-10
<i>Slc25a27</i>	2.65	1.38E-08	2.56	4.17E-08	2.98	2.53E-09
<i>Slc25a36</i>	-1.43	2.82E-08	-1.68	2.55E-08	-1.56	7.46E-09
<i>Slc25a45</i>	1.08	5.61E-09	1.22	7.05E-09	1.46	2.93E-10
<i>Slc26a10</i>	-1.66	2.70E-05	-2.22	6.28E-06	-1.39	1.03E-04
<i>Slc26a6</i>	0.83	1.78E-04	1.10	4.38E-05	1.14	9.75E-06
<i>Slc27a3</i>	2.29	9.15E-06	2.95	2.94E-06	2.76	1.44E-06
<i>Slc27a5</i>	1.26	2.21E-03	1.41	2.29E-03	1.88	9.44E-05
<i>Slc2a4rg-ps</i>	1.58	5.76E-09	1.73	8.39E-09	2.09	3.29E-10
<i>Slc30a1</i>	-1.55	5.71E-07	-1.66	9.15E-07	-1.62	2.94E-07
<i>Slc31a1</i>	-1.66	2.71E-07	-1.82	3.62E-07	-2.19	2.04E-08
<i>Slc35a5</i>	0.85	1.55E-05	1.06	6.43E-06	1.31	2.98E-07
<i>Slc35d1</i>	-1.60	1.68E-07	-1.69	2.87E-07	-2.00	1.84E-08
<i>Slc35d2</i>	1.28	4.65E-07	1.15	3.05E-06	1.94	1.18E-08
<i>Slc35f5</i>	-1.87	1.80E-03	-2.22	1.18E-03	-1.86	1.71E-03
<i>Slc38a10</i>	-1.01	1.52E-07	-1.13	1.67E-07	-1.24	1.95E-08
<i>Slc38a2</i>	-1.26	1.67E-07	-1.36	2.50E-07	-1.76	8.46E-09
<i>Slc38a3</i>	-2.95	3.51E-04	-3.64	1.65E-04	-3.42	9.40E-05

<i>Slc39a2</i>	1.35	1.07E-04	1.77	2.91E-05	1.67	1.53E-05
<i>Slc3a2</i>	-1.58	1.84E-07	-1.86	1.42E-07	-1.62	9.69E-08
<i>Slc4a10</i>	2.34	1.07E-06	2.72	8.61E-07	2.82	1.62E-07
<i>Slc4a4</i>	-1.88	1.36E-02	-2.96	1.56E-03	-2.76	1.03E-03
<i>Slc5a2</i>	-2.92	2.93E-04	-3.32	2.68E-04	-4.80	3.84E-06
<i>Slc6a19</i>	1.27	2.37E-04	0.80	1.20E-02	2.73	2.90E-07
<i>Slc6a19os</i>	2.60	2.82E-03	3.10	1.87E-03	1.54	4.86E-02
<i>Slc6a8</i>	-1.21	5.98E-03	-1.45	3.99E-03	-1.23	5.01E-03
<i>Slc7a1</i>	-1.36	8.63E-09	-1.49	1.27E-08	-2.18	1.85E-10
<i>Slc7a3</i>	1.23	2.05E-03	2.08	8.85E-05	1.70	1.57E-04
<i>Slc7a5</i>	-1.90	3.01E-06	-2.02	4.98E-06	-3.68	1.03E-08
<i>Slfn1</i>	1.06	1.13E-08	1.21	1.28E-08	1.67	2.63E-10
<i>Slk</i>	-1.05	4.31E-07	-1.14	5.89E-07	-1.23	8.29E-08
<i>Slpi</i>	1.14	2.25E-02	1.56	7.29E-03	1.42	5.91E-03
<i>Slx1b</i>	1.21	2.97E-06	1.26	5.76E-06	1.31	1.14E-06
<i>Smad6</i>	-2.27	9.25E-04	-3.63	5.67E-05	-1.59	9.01E-03
<i>Smad7</i>	-1.37	9.93E-09	-1.52	1.27E-08	-1.34	4.76E-09
<i>Smarca5</i>	-1.07	1.27E-06	-1.16	1.76E-06	-1.23	2.89E-07
<i>Smarcd3</i>	2.32	7.87E-06	2.11	4.61E-05	3.34	2.66E-07
<i>Smarcel</i>	-1.04	2.33E-09	-1.04	5.61E-09	-1.15	3.54E-10
<i>Smim13</i>	-1.25	1.64E-06	-1.40	1.87E-06	-1.41	4.61E-07
<i>Smim3</i>	-2.00	1.80E-03	-3.15	1.36E-04	-2.89	9.16E-05
<i>Smndc1</i>	-1.04	9.38E-07	-1.08	1.92E-06	-1.11	4.00E-07
<i>Smox</i>	-1.56	3.38E-07	-1.85	2.36E-07	-2.06	2.40E-08
<i>Snn</i>	1.62	1.30E-08	1.53	4.51E-08	1.31	2.70E-08
<i>Snrpd1</i>	-1.08	2.33E-06	-1.12	4.96E-06	-1.82	2.29E-08
<i>Snx18</i>	-1.88	4.07E-08	-2.25	3.20E-08	-2.40	3.65E-09
<i>Snx32</i>	2.50	1.28E-07	2.39	4.67E-07	2.81	3.12E-08
<i>Snx9</i>	-0.92	7.48E-04	-1.07	5.42E-04	-1.38	2.29E-05
<i>Socs1</i>	2.30	4.12E-08	2.17	1.51E-07	3.03	2.99E-09
<i>Sorbs3</i>	1.53	5.80E-06	1.44	2.55E-05	1.37	1.19E-05
<i>Sord</i>	-1.12	2.20E-05	-1.05	9.63E-05	-1.52	1.30E-06
<i>Sos1</i>	-1.10	3.53E-08	-1.15	6.86E-08	-1.20	9.74E-09
<i>Sowahc</i>	-1.07	2.17E-02	-1.74	2.26E-03	-1.64	1.44E-03
<i>Sox4</i>	-1.71	1.82E-07	-2.02	1.39E-07	-2.14	2.02E-08
<i>Sp3os</i>	2.13	1.04E-06	2.16	2.55E-06	2.43	2.54E-07
<i>Spag1</i>	0.89	1.07E-05	1.16	3.29E-06	1.36	2.24E-07
<i>Spag4</i>	-2.86	7.24E-05	-3.69	2.29E-05	-4.79	6.95E-07

<i>Spag5</i>	-2.14	1.64E-04	-2.29	2.36E-04	-3.94	7.38E-07
<i>Spag9</i>	-1.19	5.31E-08	-1.19	1.31E-07	-1.30	1.48E-08
<i>Spata13</i>	-1.36	1.17E-08	-1.57	1.22E-08	-1.24	9.74E-09
<i>Spata2</i>	-1.35	1.03E-07	-1.50	1.27E-07	-1.61	1.62E-08
<i>Spata32</i>	-2.25	2.59E-02	-2.48	2.82E-02	-2.33	2.03E-02
<i>Spata9</i>	1.53	6.70E-03	1.97	2.75E-03	2.41	2.37E-04
<i>Spatc1</i>	1.13	4.81E-02	1.46	2.46E-02	1.54	9.17E-03
<i>Spatc11</i>	2.04	6.82E-03	2.11	1.09E-02	2.04	6.22E-03
<i>Spc25</i>	1.15	1.08E-02	1.59	2.91E-03	1.29	4.90E-03
<i>Spdl1</i>	-1.55	1.12E-04	-1.66	1.67E-04	-1.88	1.82E-05
<i>Spefl</i>	1.59	7.14E-05	1.09	3.08E-03	1.70	3.63E-05
<i>Spice1</i>	1.24	4.36E-09	1.38	5.65E-09	1.83	1.18E-10
<i>Spon1</i>	-2.64	7.60E-07	-3.35	3.09E-07	-3.90	2.24E-08
<i>Sppl2b</i>	1.07	6.51E-06	0.87	9.39E-05	1.22	1.66E-06
<i>Spred1</i>	-1.88	2.16E-06	-2.17	1.86E-06	-1.73	3.59E-06
<i>Spred2</i>	-2.43	3.19E-07	-2.95	1.91E-07	-3.09	3.04E-08
<i>Sprtn</i>	-0.94	1.40E-08	-1.14	1.05E-08	-1.11	1.95E-09
<i>Spsb1</i>	-1.97	1.09E-07	-2.55	4.74E-08	-2.20	2.77E-08
<i>Spty2d1</i>	-1.13	2.65E-06	-1.28	2.70E-06	-1.24	9.49E-07
<i>Sqrdl</i>	1.38	1.33E-07	1.26	7.08E-07	1.27	1.63E-07
<i>Sqstm1</i>	-1.09	4.70E-09	-1.18	7.05E-09	-1.21	7.25E-10
<i>Srebfl</i>	-0.91	7.75E-07	-1.04	7.24E-07	-1.00	2.61E-07
<i>Srek1</i>	-0.98	6.39E-08	-1.05	9.87E-08	-1.05	2.17E-08
<i>Srfbp1</i>	-1.13	3.73E-07	-1.30	3.30E-07	-1.44	3.55E-08
<i>Srgn</i>	-1.77	4.69E-08	-2.05	4.54E-08	-1.17	7.74E-07
<i>Srp54a</i>	-1.41	2.42E-02	-2.12	4.44E-03	-2.41	7.31E-04
<i>Srpr</i>	-0.94	2.82E-09	-1.06	3.71E-09	-1.04	4.66E-10
<i>Srr</i>	0.88	1.66E-03	1.04	1.20E-03	1.22	1.22E-04
<i>Srrd</i>	-1.31	1.48E-05	-1.30	4.21E-05	-1.29	1.42E-05
<i>Ss18</i>	-1.46	3.21E-08	-1.61	4.41E-08	-1.42	2.04E-08
<i>Ssh2</i>	-1.28	4.19E-08	-1.27	1.08E-07	-1.28	2.20E-08
<i>Stac3</i>	1.87	5.15E-04	2.72	6.60E-05	2.11	1.77E-04
<i>Stard3nl</i>	1.14	2.44E-08	1.14	6.01E-08	1.28	5.15E-09
<i>Stat4</i>	1.06	4.17E-08	1.05	1.13E-07	1.00	3.41E-08
<i>Stat5a</i>	-2.36	3.67E-08	-2.78	3.20E-08	-2.77	5.87E-09
<i>Stau1</i>	-1.07	1.18E-07	-1.09	2.68E-07	-1.09	6.06E-08
<i>Stil</i>	-3.13	5.00E-04	-4.32	9.71E-05	-5.03	8.35E-06
<i>Stk17b</i>	-1.34	3.73E-07	-1.58	2.89E-07	-1.23	5.60E-07

<i>Stkld1</i>	1.13	2.80E-02	1.84	3.10E-03	1.66	2.59E-03
<i>Stmn1</i>	1.09	2.12E-07	1.11	4.85E-07	1.62	6.51E-09
<i>Stom</i>	-2.41	1.86E-04	-2.45	3.96E-04	-2.66	7.12E-05
<i>Stoml1</i>	1.04	2.28E-07	0.94	1.40E-06	1.50	8.77E-09
<i>Ston1</i>	1.24	1.67E-03	1.23	3.97E-03	1.53	3.16E-04
<i>Strap</i>	-1.02	1.52E-08	-1.05	3.07E-08	-1.29	1.34E-09
<i>Strc</i>	1.66	2.14E-04	1.58	7.57E-04	2.68	3.23E-06
<i>Strip2</i>	-2.24	1.16E-02	-1.94	4.22E-02	-3.23	9.33E-04
<i>Stt3b</i>	-1.20	6.37E-08	-1.30	9.63E-08	-1.43	1.02E-08
<i>Stx11</i>	-1.93	2.64E-05	-2.23	2.05E-05	-2.69	1.21E-06
<i>Stx16</i>	1.00	9.80E-09	1.07	1.53E-08	1.28	7.41E-10
<i>Stx2</i>	1.86	2.03E-08	1.81	5.65E-08	1.90	7.98E-09
<i>Stx6</i>	-1.11	7.23E-07	-1.31	5.24E-07	-1.25	1.89E-07
<i>Stxbp1</i>	1.51	3.98E-08	1.43	1.38E-07	1.91	3.73E-09
<i>Stxbp4</i>	1.17	9.04E-05	1.30	9.97E-05	1.37	1.95E-05
<i>Sub1</i>	-1.53	5.83E-08	-1.67	8.10E-08	-1.85	7.83E-09
<i>Sult1a1</i>	1.29	4.72E-04	1.45	4.61E-04	1.56	9.10E-05
<i>Sult2b1</i>	-1.37	5.80E-04	-1.25	2.53E-03	-1.02	4.31E-03
<i>Sumf2</i>	1.31	2.29E-07	1.25	8.65E-07	1.50	4.84E-08
<i>Sumo1</i>	-1.13	4.43E-08	-1.14	1.03E-07	-1.16	1.87E-08
<i>Supt6</i>	-0.97	5.60E-09	-1.01	9.41E-09	-1.12	7.13E-10
<i>Supv3l1</i>	-1.09	2.40E-06	-1.15	4.21E-06	-1.49	1.25E-07
<i>Susd4</i>	-1.08	1.12E-02	-0.95	3.94E-02	-1.48	1.34E-03
<i>Susd6</i>	-1.23	5.67E-09	-1.38	7.28E-09	-1.01	7.82E-09
<i>Suv39h2</i>	-1.38	1.38E-05	-1.45	2.52E-05	-1.95	5.76E-07
<i>Syde1</i>	1.50	1.28E-05	1.45	4.43E-05	1.47	1.26E-05
<i>Syde2</i>	-2.19	3.06E-04	-3.16	4.01E-05	-4.41	6.70E-07
<i>Syf2</i>	-1.19	6.13E-09	-1.25	1.05E-08	-1.11	3.73E-09
<i>Syn1</i>	1.06	5.72E-04	1.04	1.56E-03	1.33	8.56E-05
<i>Syn3</i>	2.58	8.37E-07	2.96	7.48E-07	2.78	3.24E-07
<i>Syne2</i>	1.40	1.38E-08	1.43	2.82E-08	1.42	5.08E-09
<i>Synj2</i>	-1.20	1.53E-06	-1.11	7.71E-06	-1.53	1.45E-07
<i>Sypl</i>	-1.80	9.18E-06	-2.00	1.02E-05	-1.49	3.76E-05
<i>Sys1</i>	-1.20	1.68E-05	-1.36	1.61E-05	-1.51	1.88E-06
<i>Sytl2</i>	-2.59	1.59E-05	-3.10	9.49E-06	-3.15	2.35E-06
<i>Sytl3</i>	-3.07	4.71E-04	-3.46	4.64E-04	-2.31	3.33E-03
<i>Tab3</i>	-1.03	9.23E-06	-1.11	1.39E-05	-1.21	1.88E-06
<i>Tacc1</i>	-1.19	6.84E-08	-1.27	1.15E-07	-1.38	1.32E-08

<i>Tacc3</i>	-1.22	3.34E-06	-1.55	1.26E-06	-1.19	3.22E-06
<i>Tacolos</i>	-2.03	7.81E-03	-1.71	3.54E-02	-1.77	1.57E-02
<i>Taf4b</i>	-2.22	1.81E-07	-2.65	1.28E-07	-2.97	1.20E-08
<i>Taf5l</i>	-0.92	7.55E-04	-1.14	3.38E-04	-1.16	1.02E-04
<i>Taf7</i>	-1.96	2.23E-04	-1.42	5.23E-03	-1.59	9.66E-04
<i>Tagap1</i>	1.25	4.12E-08	1.16	1.70E-07	1.19	3.03E-08
<i>Tagln</i>	-0.87	3.21E-03	-1.13	1.15E-03	-1.00	1.07E-03
<i>Tagln2</i>	1.00	8.63E-09	1.11	1.14E-08	1.04	2.59E-09
<i>Tagln3</i>	3.16	3.96E-06	3.50	4.69E-06	3.63	9.34E-07
<i>Tanc1</i>	-1.27	4.31E-08	-1.26	1.13E-07	-1.35	1.45E-08
<i>Tatdn2</i>	-1.24	1.83E-07	-1.38	2.25E-07	-1.30	8.40E-08
<i>Tbc1d10c</i>	1.03	7.51E-07	1.10	1.21E-06	1.13	2.39E-07
<i>Tbc1d15</i>	-1.65	1.25E-07	-1.82	1.58E-07	-1.84	3.28E-08
<i>Tbc1d24</i>	1.70	4.57E-07	1.78	8.27E-07	1.55	6.91E-07
<i>Tbc1d30</i>	-2.03	1.02E-07	-2.44	7.48E-08	-2.02	6.33E-08
<i>Tbc1d4</i>	-1.60	1.93E-06	-1.72	3.01E-06	-1.39	5.18E-06
<i>Tbxa2r</i>	0.85	1.48E-06	1.04	7.37E-07	1.25	4.27E-08
<i>Tbxas1</i>	1.30	3.82E-02	1.38	4.79E-02	2.60	4.50E-04
<i>Tceal1</i>	-3.18	2.09E-03	-4.41	4.36E-04	-5.66	1.89E-05
<i>Tceal3</i>	-2.13	4.60E-03	-3.44	3.36E-04	-4.92	5.52E-06
<i>Tcp11l1</i>	2.77	8.83E-04	1.57	4.99E-02	2.41	2.14E-03
<i>Tcp11l2</i>	-1.66	5.17E-08	-1.84	6.86E-08	-1.72	2.20E-08
<i>Tctex1d1</i>	-1.48	1.05E-02	-2.29	1.27E-03	-1.75	3.34E-03
<i>Tdg</i>	-1.38	8.42E-08	-1.50	1.14E-07	-1.59	1.64E-08
<i>Tdp2</i>	-1.16	1.20E-06	-1.22	2.26E-06	-1.33	2.89E-07
<i>Tdrkh</i>	1.27	6.50E-08	1.71	2.37E-08	1.57	7.42E-09
<i>Tec</i>	2.15	5.48E-09	2.26	8.76E-09	1.50	2.21E-08
<i>Tecpr1</i>	1.31	1.87E-08	1.37	3.57E-08	1.24	1.30E-08
<i>Teddm3</i>	2.21	5.59E-03	1.65	4.83E-02	2.27	4.29E-03
<i>Tespal</i>	-1.53	4.12E-08	-1.75	4.41E-08	-1.34	6.15E-08
<i>Tex15</i>	-2.14	6.65E-04	-2.18	1.35E-03	-2.57	1.40E-04
<i>Tex22</i>	1.39	3.12E-03	1.68	1.88E-03	1.54	1.40E-03
<i>Tex30</i>	-1.18	8.52E-06	-1.33	8.72E-06	-1.51	8.08E-07
<i>Tfap4</i>	1.64	5.89E-09	1.53	1.96E-08	1.50	3.73E-09
<i>Tfb1m</i>	1.02	2.63E-04	0.96	9.87E-04	1.35	2.19E-05
<i>Tfb2m</i>	-1.54	5.99E-07	-1.59	1.25E-06	-1.75	1.46E-07
<i>Tfcp2</i>	1.28	7.40E-08	1.08	7.41E-07	1.51	1.29E-08
<i>Tfe3</i>	-1.14	8.69E-08	-1.22	1.40E-07	-1.27	2.24E-08

<i>Tfip11</i>	-1.19	9.89E-09	-1.47	7.55E-09	-1.35	1.57E-09
<i>Tgfb1i1</i>	0.74	5.18E-04	1.10	5.64E-05	1.31	3.84E-06
<i>Tgfb3</i>	-2.75	2.57E-04	-4.58	1.01E-05	-3.66	2.09E-05
<i>Tgif1</i>	-2.55	5.83E-07	-3.15	2.96E-07	-2.92	1.35E-07
<i>Tgif2</i>	-2.57	1.48E-08	-3.29	8.67E-09	-3.80	4.70E-10
<i>Tgm1</i>	-1.86	4.53E-02	-2.20	3.59E-02	-2.38	1.23E-02
<i>Tgoln1</i>	-1.31	7.35E-08	-1.42	1.08E-07	-1.45	1.99E-08
<i>Tha1</i>	1.71	5.86E-06	1.47	5.80E-05	2.47	1.94E-07
<i>Thap2</i>	1.79	5.81E-08	2.00	7.05E-08	1.90	2.09E-08
<i>Thap3</i>	1.62	5.50E-07	1.64	1.37E-06	2.02	6.00E-08
<i>Thbs1</i>	-2.51	9.95E-03	-2.71	1.21E-02	-3.47	1.07E-03
<i>Them6</i>	1.06	4.46E-06	0.86	6.52E-05	1.18	1.34E-06
<i>Thra</i>	1.76	2.63E-09	1.83	5.57E-09	2.26	1.85E-10
<i>Thumpd1</i>	-1.05	1.01E-07	-1.15	1.38E-07	-1.29	1.25E-08
<i>Tia1</i>	1.51	6.82E-08	1.68	8.48E-08	1.65	1.97E-08
<i>Ticrr</i>	-2.72	1.34E-03	-3.50	4.93E-04	-3.90	7.21E-05
<i>Tigit</i>	-3.35	8.31E-03	-5.74	4.53E-04	-6.52	5.57E-05
<i>Timm23</i>	-1.25	5.67E-09	-1.31	9.75E-09	-1.52	5.47E-10
<i>Timm8a2</i>	1.05	9.59E-04	0.98	3.47E-03	1.82	9.64E-06
<i>Timmdc1</i>	0.96	4.55E-08	1.04	7.05E-08	1.13	7.58E-09
<i>Tinf2</i>	-1.07	1.18E-07	-1.33	6.52E-08	-1.07	7.09E-08
<i>Tipr1</i>	-1.47	4.37E-07	-1.80	2.46E-07	-1.75	7.21E-08
<i>Tlcd2</i>	-1.44	5.88E-03	-1.49	9.51E-03	-1.82	1.08E-03
<i>Tle4</i>	-1.65	1.30E-08	-1.81	1.74E-08	-1.53	9.58E-09
<i>Tlr1</i>	2.10	1.67E-09	2.28	2.53E-09	1.61	2.33E-09
<i>Tm2d2</i>	-1.06	2.28E-06	-1.14	3.50E-06	-1.16	7.85E-07
<i>Tm6sf2</i>	0.99	3.01E-02	1.67	2.81E-03	1.51	2.34E-03
<i>Tm7sf2</i>	1.51	1.57E-07	1.42	6.74E-07	1.26	4.78E-07
<i>Tma16</i>	-0.98	9.29E-05	-1.23	3.70E-05	-1.39	3.74E-06
<i>Tmc3</i>	1.44	9.89E-04	1.44	2.26E-03	2.04	5.51E-05
<i>Tmc4</i>	1.53	8.03E-09	1.76	8.67E-09	1.86	8.67E-10
<i>Tmc6</i>	1.11	3.94E-09	1.00	1.58E-08	1.24	5.94E-10
<i>Tmc8</i>	1.19	2.79E-08	1.09	1.18E-07	1.42	3.87E-09
<i>Tmco6</i>	1.24	2.64E-07	1.35	3.67E-07	1.64	1.93E-08
<i>Tmem129</i>	1.15	3.29E-07	1.20	6.49E-07	1.40	4.60E-08
<i>Tmem132a</i>	1.87	6.84E-03	2.69	1.32E-03	2.11	2.90E-03
<i>Tmem143</i>	1.50	7.72E-07	1.32	6.21E-06	1.86	9.06E-08
<i>Tmem154</i>	1.47	9.15E-05	1.67	8.66E-05	1.87	1.01E-05

<i>Tmem194</i>	1.14	4.22E-08	1.29	4.78E-08	1.60	2.08E-09
<i>Tmem220</i>	1.27	1.96E-02	2.25	1.10E-03	1.43	9.51E-03
<i>Tmem221</i>	2.63	1.34E-06	2.78	2.37E-06	3.25	1.67E-07
<i>Tmem222</i>	-1.07	6.53E-08	-1.19	8.39E-08	-1.29	9.63E-09
<i>Tmem230</i>	1.01	1.09E-07	0.97	3.97E-07	1.36	7.30E-09
<i>Tmem248</i>	-1.45	3.19E-08	-1.62	4.10E-08	-1.60	8.04E-09
<i>Tmem251</i>	-1.71	7.36E-03	-1.49	2.91E-02	-2.26	1.03E-03
<i>Tmem38a</i>	1.14	5.59E-05	1.08	2.21E-04	1.16	4.21E-05
<i>Tmem71</i>	1.35	1.96E-09	1.38	3.71E-09	2.11	3.75E-11
<i>Tmem80</i>	1.22	4.76E-09	1.27	8.67E-09	1.54	3.60E-10
<i>Tmem88</i>	-3.11	1.20E-03	-3.22	2.11E-03	-3.91	1.84E-04
<i>Tmie</i>	1.25	8.09E-07	1.40	8.76E-07	1.76	3.32E-08
<i>Tmod4</i>	1.50	3.73E-04	1.35	1.90E-03	1.73	1.04E-04
<i>Tmprss13</i>	3.22	1.63E-04	3.18	4.54E-04	4.37	1.07E-05
<i>Tmtc1</i>	2.24	1.40E-03	1.76	1.37E-02	2.77	2.55E-04
<i>Tmtc4</i>	1.24	4.97E-06	1.55	2.16E-06	1.66	3.13E-07
<i>Tmx4</i>	-1.05	4.08E-07	-1.14	5.94E-07	-1.06	2.70E-07
<i>Tnfaip3</i>	-3.11	2.53E-05	-4.37	3.99E-06	-4.63	6.62E-07
<i>Tnfaip8</i>	-1.82	7.35E-08	-2.07	7.79E-08	-2.88	1.56E-09
<i>Tnfaip8l1</i>	1.36	2.21E-07	1.41	4.61E-07	1.34	1.74E-07
<i>Tnfrsf10b</i>	-2.08	9.58E-07	-2.88	2.00E-07	-3.03	3.12E-08
<i>Tnfrsf12a</i>	-0.80	6.85E-03	-1.01	3.28E-03	-1.19	3.96E-04
<i>Tnfrsf19</i>	-4.23	2.67E-04	-3.96	1.06E-03	-5.54	2.51E-05
<i>Tnfrsf1b</i>	-2.02	1.03E-08	-2.75	5.23E-09	-2.26	2.02E-09
<i>Tnfrsf9</i>	-1.18	2.16E-02	-1.97	1.83E-03	-2.79	4.38E-05
<i>Tnfsf11</i>	-3.14	7.14E-04	-4.88	5.50E-05	-6.11	2.44E-06
<i>Tnfsf4</i>	-2.09	1.86E-04	-2.68	6.16E-05	-3.83	8.70E-07
<i>Tnfsf8</i>	3.15	2.83E-09	3.11	7.55E-09	1.85	3.68E-08
<i>Tnip1</i>	-1.57	1.06E-08	-1.69	1.74E-08	-1.60	3.97E-09
<i>Tnip2</i>	-1.08	1.03E-07	-1.26	9.05E-08	-1.32	1.29E-08
<i>Tnk2</i>	-2.04	2.56E-07	-2.48	1.59E-07	-2.04	1.74E-07
<i>Tnn</i>	-1.21	3.89E-03	-1.27	6.01E-03	-1.57	5.75E-04
<i>Tnni1</i>	-1.62	1.50E-02	-1.59	2.94E-02	-1.36	3.36E-02
<i>Tnnt1</i>	-1.64	1.41E-03	-1.33	1.15E-02	-1.78	6.94E-04
<i>Tnnt3</i>	1.09	2.90E-04	1.21	3.20E-04	1.46	2.28E-05
<i>Tob1</i>	-1.58	6.12E-07	-1.77	6.67E-07	-1.22	4.16E-06
<i>Tob2</i>	-2.16	1.92E-07	-2.78	8.25E-08	-3.01	9.61E-09
<i>Tollip</i>	-1.34	1.52E-07	-1.35	3.65E-07	-1.43	5.66E-08

<i>Top1</i>	-1.46	2.05E-07	-1.73	1.56E-07	-1.80	2.52E-08
<i>Top2a</i>	-1.81	6.12E-08	-1.94	9.55E-08	-2.76	1.62E-09
<i>Topors</i>	-1.03	4.21E-06	-1.15	4.50E-06	-1.17	1.09E-06
<i>Tor4a</i>	1.19	1.30E-08	1.21	2.86E-08	1.46	1.39E-09
<i>Tox</i>	-1.25	5.88E-08	-1.40	7.33E-08	-1.27	2.94E-08
<i>Tox2</i>	-2.23	6.27E-04	-2.22	1.50E-03	-1.26	2.25E-02
<i>Tox4</i>	-1.07	1.44E-07	-1.18	1.79E-07	-1.05	1.06E-07
<i>Tpd52l2</i>	-1.06	2.39E-08	-1.17	3.03E-08	-1.18	5.08E-09
<i>Tpgs1</i>	1.11	2.34E-05	0.99	1.48E-04	1.17	1.20E-05
<i>Tpm4</i>	-1.00	4.22E-07	-1.39	1.01E-07	-2.04	1.39E-09
<i>Tpp2</i>	-1.04	1.13E-07	-0.99	3.97E-07	-1.12	3.66E-08
<i>Tppp</i>	-2.02	1.68E-04	-2.48	8.03E-05	-1.97	1.77E-04
<i>Traf3ip3</i>	1.05	6.88E-08	1.14	9.97E-08	1.51	2.80E-09
<i>Traip</i>	-2.21	4.15E-06	-2.75	1.82E-06	-2.65	6.69E-07
<i>Trav8-2</i>	-0.97	2.31E-03	-1.82	4.46E-05	-1.04	1.26E-03
<i>Trex1_1</i>	-2.01	2.55E-03	-1.38	4.17E-02	-1.69	7.35E-03
<i>Trib1</i>	-2.04	4.46E-06	-2.31	4.25E-06	-3.34	5.20E-08
<i>Trib3</i>	1.84	4.51E-08	2.04	5.76E-08	1.80	2.84E-08
<i>Trim13</i>	-2.64	2.27E-04	-3.63	4.49E-05	-4.28	3.29E-06
<i>Trim14</i>	1.40	9.12E-08	1.32	3.55E-07	1.71	1.20E-08
<i>Trim3</i>	1.20	2.19E-06	1.24	4.64E-06	1.05	5.78E-06
<i>Trim34a</i>	1.78	2.63E-09	2.04	3.54E-09	2.81	5.00E-11
<i>Trim36</i>	-2.00	1.23E-05	-2.74	2.45E-06	-3.61	6.35E-08
<i>Trim45</i>	1.16	1.03E-02	1.44	5.42E-03	1.16	9.13E-03
<i>Trim46</i>	2.58	1.26E-05	2.50	4.39E-05	2.72	6.60E-06
<i>Trim47</i>	1.57	1.28E-03	1.39	6.20E-03	1.94	2.34E-04
<i>Trim5</i>	1.63	4.92E-06	1.97	2.77E-06	2.63	6.46E-08
<i>Trim56</i>	1.03	1.70E-08	1.20	1.65E-08	2.06	8.35E-11
<i>Trim68</i>	1.47	2.06E-07	1.48	5.17E-07	1.93	1.55E-08
<i>Triobp</i>	0.87	7.10E-06	1.05	3.99E-06	1.46	6.68E-08
<i>Trip10</i>	1.71	1.75E-07	2.10	1.05E-07	1.09	5.85E-06
<i>Trmt61b</i>	-1.02	4.75E-04	-1.09	6.56E-04	-1.50	1.68E-05
<i>Trnt1</i>	-1.50	1.94E-07	-1.79	1.36E-07	-1.62	6.62E-08
<i>Trp53inp2</i>	-2.65	2.65E-05	-3.71	4.31E-06	-3.96	6.72E-07
<i>Trpm4</i>	1.38	8.46E-08	1.27	4.20E-07	1.49	2.74E-08
<i>Tsc22d2</i>	-1.00	5.99E-08	-1.14	6.80E-08	-1.07	2.13E-08
<i>Tshz1</i>	-1.89	1.97E-08	-2.20	1.88E-08	-2.48	1.36E-09
<i>Tspan17</i>	1.02	2.74E-02	2.04	7.13E-04	1.36	4.86E-03



<i>Tspan32</i>	1.49	1.67E-09	1.61	2.53E-09	2.09	5.00E-11
<i>Tspan32os</i>	1.48	1.54E-02	1.97	5.49E-03	1.66	7.21E-03
<i>Tspan9</i>	-1.44	4.03E-06	-1.60	4.77E-06	-1.90	3.01E-07
<i>Tspyl1</i>	-1.10	2.54E-07	-1.21	3.34E-07	-1.23	7.12E-08
<i>Tsr2</i>	-1.39	1.61E-06	-1.54	1.89E-06	-1.58	4.16E-07
<i>Tssk1</i>	-1.11	3.19E-03	-0.96	1.53E-02	-1.87	5.21E-05
<i>Tssk4</i>	1.51	1.80E-04	1.68	1.89E-04	2.13	8.33E-06
<i>Ttc30a1</i>	1.48	1.68E-05	0.97	1.22E-03	1.08	2.01E-04
<i>Ttc32</i>	1.14	1.23E-05	1.03	7.73E-05	1.35	2.42E-06
<i>Ttf1</i>	0.86	1.52E-06	1.01	1.12E-06	1.10	1.43E-07
<i>Ttyh2</i>	1.03	2.65E-05	0.75	7.85E-04	1.42	1.33E-06
<i>Ttyh3</i>	1.14	4.70E-09	0.96	2.83E-08	1.42	3.97E-10
<i>Tubb2a</i>	-1.63	2.93E-06	-2.08	1.04E-06	-1.43	7.09E-06
<i>Tulp3</i>	1.67	2.89E-08	1.73	5.62E-08	1.39	6.04E-08
<i>Twistnb</i>	-1.31	4.78E-07	-1.34	1.08E-06	-1.49	1.14E-07
<i>Twsg1</i>	-1.51	6.09E-08	-1.65	8.40E-08	-1.79	9.74E-09
<i>Txndc12</i>	0.99	9.59E-07	1.13	9.62E-07	1.11	2.73E-07
<i>Uba6</i>	-0.99	9.24E-06	-1.03	1.83E-05	-1.21	1.26E-06
<i>Ubald2</i>	-1.22	7.31E-07	-1.51	3.67E-07	-1.39	1.77E-07
<i>Ubb</i>	-1.18	2.43E-08	-1.22	4.77E-08	-1.14	1.51E-08
<i>Ubc</i>	-1.63	9.51E-08	-1.83	1.05E-07	-1.77	2.90E-08
<i>Ube2b</i>	-1.45	2.57E-07	-1.48	5.89E-07	-1.62	7.11E-08
<i>Ube2e3</i>	-1.32	2.04E-07	-1.43	2.96E-07	-1.68	1.94E-08
<i>Ube2j1</i>	-1.16	1.21E-07	-1.31	1.28E-07	-1.33	2.52E-08
<i>Ube2s</i>	-1.95	4.66E-06	-2.17	5.13E-06	-2.41	5.78E-07
<i>Ublcp1</i>	-1.00	2.48E-05	-1.32	6.79E-06	-1.14	6.68E-06
<i>Ubn1</i>	-1.37	1.71E-08	-1.52	2.19E-08	-1.45	5.22E-09
<i>Ubtcl1</i>	0.90	2.33E-05	1.13	9.61E-06	1.15	2.35E-06
<i>Ubxn2a</i>	-1.00	8.55E-08	-1.06	1.46E-07	-1.07	2.91E-08
<i>Ubxn2b</i>	1.42	6.30E-07	1.53	9.41E-07	1.69	1.01E-07
<i>Ubxn8</i>	-1.14	2.56E-06	-1.14	7.20E-06	-1.07	3.72E-06
<i>Uckl1</i>	1.28	1.05E-07	1.34	1.88E-07	1.46	2.26E-08
<i>Ufsp2</i>	1.24	1.59E-08	1.32	2.71E-08	1.36	3.73E-09
<i>Ulk1</i>	-1.79	2.55E-08	-2.09	2.38E-08	-2.12	3.73E-09
<i>Unc45a</i>	-0.94	2.93E-08	-1.10	2.58E-08	-1.21	2.33E-09
<i>Unc5b</i>	-1.42	4.75E-02	-2.29	7.24E-03	-1.86	1.15E-02
<i>Urb2</i>	-1.17	1.57E-04	-1.52	4.75E-05	-1.76	4.10E-06
<i>Uros</i>	1.16	7.32E-07	1.12	2.71E-06	1.49	6.71E-08

<i>Usp10</i>	-1.04	6.17E-07	-0.94	3.79E-06	-1.06	3.93E-07
<i>Usp12</i>	-1.70	8.52E-08	-1.94	8.77E-08	-1.97	1.61E-08
<i>Usp16</i>	-1.23	6.18E-08	-1.40	6.52E-08	-1.37	1.51E-08
<i>Usp18</i>	1.00	6.38E-05	1.20	3.87E-05	2.56	1.91E-08
<i>Usp2</i>	-2.13	3.71E-05	-2.77	1.08E-05	-3.26	7.60E-07
<i>Usp21</i>	0.98	1.36E-07	1.00	2.97E-07	1.05	4.77E-08
<i>Usp22</i>	-1.12	9.56E-08	-1.29	9.18E-08	-1.65	3.23E-09
<i>Usp28</i>	1.48	7.90E-10	1.41	2.30E-09	1.75	6.41E-11
<i>Usp35</i>	1.14	1.44E-06	1.17	3.11E-06	1.44	1.45E-07
<i>Usp36</i>	-1.12	1.03E-08	-1.30	1.05E-08	-1.58	4.66E-10
<i>Usp38</i>	-1.64	1.96E-07	-1.85	2.01E-07	-1.37	5.94E-07
<i>Usp54</i>	-1.81	6.61E-08	-1.82	1.65E-07	-2.20	9.08E-09
<i>Usp6nl</i>	-1.07	1.30E-07	-1.16	1.80E-07	-1.31	1.61E-08
<i>Usp9x</i>	-0.99	7.99E-08	-1.00	1.80E-07	-1.03	3.34E-08
<i>Utp14b</i>	-3.28	9.32E-05	-3.19	2.97E-04	-3.33	7.20E-05
<i>Vamp5</i>	1.09	6.67E-06	0.93	6.84E-05	1.13	3.89E-06
<i>Vat1</i>	1.76	2.33E-08	1.87	3.90E-08	1.47	4.37E-08
<i>Vcl</i>	-2.23	5.14E-07	-2.95	1.61E-07	-3.52	9.63E-09
<i>Vdr</i>	-2.49	2.60E-05	-3.07	1.23E-05	-4.12	2.80E-07
<i>Vegfa</i>	-2.46	3.60E-07	-3.36	9.52E-08	-3.73	9.35E-09
<i>Vegfb</i>	1.70	1.74E-06	2.06	9.96E-07	1.52	3.61E-06
<i>Vgll4</i>	-1.94	5.57E-08	-2.39	3.80E-08	-2.12	1.63E-08
<i>Vmac</i>	1.12	3.45E-07	1.42	1.56E-07	1.23	1.11E-07
<i>Vmn2r96</i>	1.17	2.22E-06	1.57	5.54E-07	1.86	3.45E-08
<i>Vmn2r97</i>	3.17	1.64E-05	2.87	9.98E-05	4.32	9.32E-07
<i>Vopp1</i>	-1.13	4.13E-07	-1.14	1.05E-06	-1.04	5.72E-07
<i>Vpreb1</i>	2.59	5.13E-04	2.47	1.69E-03	3.21	8.07E-05
<i>Vps18</i>	-0.84	2.06E-06	-1.08	7.35E-07	-1.03	2.87E-07
<i>Vps37b</i>	-2.45	3.60E-07	-3.02	1.88E-07	-3.62	1.11E-08
<i>Vwa5a</i>	1.36	5.53E-06	1.34	1.68E-05	1.59	1.09E-06
<i>Wac</i>	-1.22	1.56E-06	-1.37	1.66E-06	-1.30	7.09E-07
<i>Wars</i>	0.85	1.41E-06	1.13	3.94E-07	4.27	1.24E-11
<i>Wbp5</i>	-1.35	1.88E-07	-1.53	1.96E-07	-1.91	8.73E-09
<i>Wbscr16</i>	-1.08	6.18E-08	-1.17	9.19E-08	-1.09	3.48E-08
<i>Wbscr27</i>	2.50	1.40E-08	2.33	5.03E-08	2.45	7.01E-09
<i>Wdhd1</i>	-0.89	1.84E-06	-1.06	1.18E-06	-1.19	1.21E-07
<i>Wdr38</i>	1.43	2.23E-03	1.10	2.11E-02	1.20	6.21E-03
<i>Wdr45b</i>	-1.25	3.01E-08	-1.38	4.04E-08	-1.38	7.34E-09

<i>Wdr89</i>	1.23	1.17E-05	1.56	4.21E-06	1.36	3.91E-06
<i>Wdsub1</i>	1.44	6.77E-09	1.35	2.34E-08	1.15	1.27E-08
<i>Wdyhvl</i>	-1.18	5.76E-07	-1.35	5.32E-07	-1.31	1.63E-07
<i>Whsc11l</i>	1.57	2.12E-09	1.71	3.50E-09	1.03	8.89E-09
<i>Wnk3</i>	1.61	2.62E-03	1.88	1.97E-03	1.39	6.36E-03
<i>Wnt2b</i>	1.01	3.33E-03	0.97	8.61E-03	1.46	1.97E-04
<i>Wsb1</i>	-1.14	1.99E-07	-1.28	2.09E-07	-1.27	5.19E-08
<i>Wwp1</i>	-1.23	1.92E-07	-1.05	1.77E-06	-1.30	8.05E-08
<i>Xbp1</i>	-1.64	5.30E-07	-1.97	3.36E-07	-2.86	4.84E-09
<i>Xcr1</i>	-1.86	9.41E-03	-2.17	7.51E-03	-1.47	3.11E-02
<i>Xkr8</i>	1.52	1.38E-07	1.37	8.45E-07	1.60	5.66E-08
<i>Xrcc2</i>	-1.47	2.88E-06	-1.94	8.23E-07	-1.91	2.37E-07
<i>Xylt2</i>	1.03	2.82E-08	1.10	4.43E-08	1.25	3.33E-09
<i>Yap1</i>	-3.10	1.36E-03	-2.77	6.12E-03	-3.14	1.11E-03
<i>Yes1</i>	-1.65	1.54E-06	-1.97	9.89E-07	-2.39	5.12E-08
<i>Ypel2</i>	-1.24	1.55E-07	-1.44	1.33E-07	-1.53	1.84E-08
<i>Ypel4</i>	-3.65	1.05E-04	-4.32	6.80E-05	-4.19	2.82E-05
<i>Ythdc1</i>	-1.13	4.80E-07	-1.13	1.26E-06	-1.10	4.31E-07
<i>Ythdc2</i>	-1.20	5.13E-07	-1.30	7.20E-07	-1.21	3.31E-07
<i>Zbed3</i>	-1.60	1.62E-03	-1.68	2.57E-03	-2.20	1.27E-04
<i>Zbed5</i>	-1.62	1.18E-04	-1.79	1.32E-04	-2.93	6.04E-07
<i>Zbtb10</i>	-2.40	4.33E-07	-3.04	1.84E-07	-3.15	3.20E-08
<i>Zbtb11</i>	-1.17	3.04E-07	-1.21	6.15E-07	-1.13	2.68E-07
<i>Zbtb14</i>	0.83	2.27E-08	1.15	8.39E-09	1.50	2.18E-10
<i>Zbtb21</i>	-1.79	4.87E-08	-2.18	3.44E-08	-1.91	1.63E-08
<i>Zbtb37</i>	1.48	1.02E-08	1.71	1.02E-08	1.84	9.34E-10
<i>Zbtb38</i>	-1.53	4.38E-07	-1.82	3.00E-07	-1.42	5.85E-07
<i>Zbtb42</i>	1.16	7.86E-07	1.19	1.78E-06	1.56	4.74E-08
<i>Zbtb7b</i>	2.15	8.05E-10	2.18	1.73E-09	2.36	9.44E-11
<i>Zbtb8a</i>	1.41	1.09E-06	1.64	8.72E-07	1.75	1.30E-07
<i>Zc2hc1c</i>	-1.61	4.14E-04	-1.81	3.98E-04	-2.36	1.49E-05
<i>Zc3h12a</i>	-1.86	6.55E-08	-2.24	4.80E-08	-2.37	6.44E-09
<i>Zc3h13</i>	-1.25	6.02E-08	-1.40	7.33E-08	-1.35	1.88E-08
<i>Zc3hc1</i>	-1.38	5.55E-09	-1.62	5.57E-09	-1.68	4.92E-10
<i>Zcchc11</i>	-1.36	2.27E-08	-1.37	5.03E-08	-1.06	7.45E-08
<i>Zcchc12</i>	-2.15	8.69E-04	-2.00	3.17E-03	-3.07	4.37E-05
<i>Zdhhc12</i>	0.82	1.32E-03	1.02	6.30E-04	1.16	7.93E-05
<i>Zdhhc23</i>	-1.34	4.62E-06	-1.18	3.78E-05	-2.29	3.95E-08

<i>Zdhhc5</i>	-1.03	7.99E-08	-1.09	1.33E-07	-1.20	1.44E-08
<i>Zfand2a</i>	-2.45	2.98E-06	-3.09	1.21E-06	-3.61	8.40E-08
<i>Zfp109</i>	1.35	1.58E-05	1.46	2.13E-05	1.61	2.72E-06
<i>Zfp128</i>	1.90	1.70E-06	2.00	3.10E-06	2.29	2.60E-07
<i>Zfp14</i>	1.36	3.04E-06	1.83	7.15E-07	2.03	7.84E-08
<i>Zfp174</i>	1.38	7.41E-07	1.41	1.69E-06	2.18	1.32E-08
<i>Zfp2</i>	1.17	1.13E-04	1.48	4.29E-05	1.53	1.02E-05
<i>Zfp217</i>	1.07	3.19E-08	1.15	4.72E-08	1.49	1.51E-09
<i>Zfp219</i>	1.19	9.96E-07	1.07	6.57E-06	1.09	1.60E-06
<i>Zfp239</i>	1.17	6.35E-04	1.32	6.18E-04	1.00	1.80E-03
<i>Zfp28</i>	1.54	3.66E-08	1.39	1.78E-07	1.52	2.04E-08
<i>Zfp286</i>	2.00	2.25E-06	1.66	3.04E-05	2.32	4.87E-07
<i>Zfp287</i>	1.43	2.30E-08	1.33	8.89E-08	1.92	1.39E-09
<i>Zfp3</i>	1.93	2.36E-08	1.61	1.89E-07	2.25	3.73E-09
<i>Zfp316</i>	1.64	4.39E-07	1.42	3.85E-06	1.60	3.87E-07
<i>Zfp322a</i>	1.07	1.90E-02	1.38	8.45E-03	1.07	1.77E-02
<i>Zfp329</i>	1.40	8.03E-09	1.64	8.66E-09	1.64	1.10E-09
<i>Zfp358</i>	1.26	2.46E-06	1.29	5.51E-06	1.19	3.11E-06
<i>Zfp41</i>	1.99	4.57E-08	1.87	1.76E-07	2.05	1.96E-08
<i>Zfp410</i>	-1.00	6.19E-08	-1.03	1.31E-07	-1.18	1.03E-08
<i>Zfp420</i>	1.40	7.94E-09	1.57	9.75E-09	1.45	2.37E-09
<i>Zfp426</i>	1.07	3.26E-04	1.36	1.19E-04	1.14	1.76E-04
<i>Zfp444</i>	1.63	8.84E-08	1.64	2.17E-07	1.74	3.20E-08
<i>Zfp446</i>	1.04	2.21E-05	1.33	7.27E-06	1.31	2.41E-06
<i>Zfp449</i>	-1.33	7.45E-03	-1.81	2.18E-03	-1.81	8.45E-04
<i>Zfp455</i>	0.76	2.27E-05	1.14	1.99E-06	1.04	1.15E-06
<i>Zfp459</i>	0.73	3.38E-04	1.18	1.78E-05	1.09	1.10E-05
<i>Zfp467</i>	1.49	2.90E-07	1.70	2.80E-07	1.60	1.06E-07
<i>Zfp493</i>	1.77	3.68E-08	1.76	9.31E-08	1.95	9.35E-09
<i>Zfp52</i>	-1.21	5.24E-07	-1.08	3.92E-06	-1.43	9.71E-08
<i>Zfp560</i>	0.94	3.03E-05	1.13	1.80E-05	1.61	2.46E-07
<i>Zfp563</i>	1.19	7.03E-06	1.19	1.80E-05	1.16	7.15E-06
<i>Zfp579</i>	1.36	3.11E-07	1.20	2.29E-06	1.28	3.56E-07
<i>Zfp583</i>	1.96	2.03E-03	3.30	9.24E-05	1.82	3.07E-03
<i>Zfp606</i>	1.27	8.43E-07	1.32	1.76E-06	1.48	1.70E-07
<i>Zfp619</i>	-0.86	8.86E-05	-1.03	5.33E-05	-1.00	2.09E-05
<i>Zfp647</i>	2.68	2.59E-06	1.80	1.91E-04	2.60	2.67E-06
<i>Zfp655</i>	-1.01	6.43E-07	-1.07	1.09E-06	-1.13	1.70E-07

<i>Zfp661</i>	1.18	1.48E-07	1.14	5.07E-07	1.26	5.60E-08
<i>Zfp688</i>	0.86	2.34E-04	1.03	1.41E-04	1.21	1.17E-05
<i>Zfp7</i>	1.85	7.87E-08	2.03	1.05E-07	1.61	1.46E-07
<i>Zfp703</i>	-1.02	9.23E-07	-1.10	1.41E-06	-1.27	1.12E-07
<i>Zfp704</i>	1.44	3.21E-03	1.27	1.39E-02	2.45	4.65E-05
<i>Zfp72</i>	2.24	1.93E-04	2.82	7.44E-05	2.75	3.01E-05
<i>Zfp759</i>	1.43	6.67E-06	1.63	5.85E-06	2.01	2.80E-07
<i>Zfp760</i>	1.91	1.22E-06	2.33	6.72E-07	1.91	9.45E-07
<i>Zfp768</i>	2.37	3.63E-05	1.24	9.97E-03	2.39	2.86E-05
<i>Zfp773</i>	1.23	5.21E-06	1.16	2.45E-05	1.55	5.74E-07
<i>Zfp775</i>	0.92	1.55E-06	1.05	1.40E-06	1.03	4.61E-07
<i>Zfp78</i>	1.53	3.07E-04	1.92	1.27E-04	1.75	9.23E-05
<i>Zfp781</i>	-1.29	2.87E-03	-1.33	5.06E-03	-1.20	4.25E-03
<i>Zfp800</i>	-1.36	3.07E-07	-1.55	2.97E-07	-1.51	8.68E-08
<i>Zfp808</i>	1.19	3.15E-06	1.37	2.60E-06	1.34	8.96E-07
<i>Zfp82</i>	1.67	3.53E-03	1.57	1.03E-02	2.19	4.49E-04
<i>Zfp825</i>	1.22	2.86E-06	1.26	5.81E-06	1.48	4.16E-07
<i>Zfp839</i>	1.04	7.53E-05	1.26	3.92E-05	1.50	2.74E-06
<i>Zfp85os</i>	1.04	5.21E-03	0.97	1.52E-02	1.27	1.19E-03
<i>Zfp873</i>	1.37	7.46E-07	1.52	8.83E-07	1.44	3.42E-07
<i>Zfp882</i>	1.80	7.18E-04	1.37	9.60E-03	1.96	3.25E-04
<i>Zfp93</i>	1.24	7.13E-03	1.41	6.59E-03	1.52	1.72E-03
<i>Zfp935</i>	1.03	3.17E-07	0.94	1.92E-06	1.28	3.92E-08
<i>Zfp94</i>	1.57	5.59E-05	1.73	6.57E-05	1.92	8.50E-06
<i>Zfpm1</i>	-1.71	4.22E-07	-2.16	1.86E-07	-2.45	1.59E-08
<i>Zfyve21</i>	1.10	6.56E-05	1.17	9.95E-05	1.16	3.41E-05
<i>Zfyve28</i>	-2.23	6.19E-04	-3.05	1.33E-04	-2.59	1.70E-04
<i>Zgrf1</i>	-1.58	1.45E-05	-1.96	6.35E-06	-1.74	5.15E-06
<i>Zhx1</i>	-1.44	3.00E-04	-1.31	1.44E-03	-1.90	2.57E-05
<i>Zkscan3</i>	1.60	1.54E-08	1.82	1.74E-08	1.76	3.48E-09
<i>Zkscan7</i>	1.45	9.71E-03	2.10	1.88E-03	1.97	1.21E-03
<i>Zkscan8</i>	2.06	7.74E-08	2.13	1.53E-07	2.48	1.10E-08
<i>Zmiz1</i>	-1.58	2.72E-08	-1.81	2.90E-08	-2.08	1.96E-09
<i>Zmym1</i>	-1.57	1.14E-06	-1.69	1.78E-06	-1.78	2.99E-07
<i>Zmynd10</i>	1.59	1.47E-04	1.79	1.41E-04	1.38	3.83E-04
<i>Znrd1as</i>	1.71	6.06E-04	1.90	6.44E-04	2.50	2.33E-05
<i>Zpr1</i>	-0.90	4.75E-09	-1.02	5.90E-09	-1.18	2.93E-10
<i>Zranb1</i>	-2.02	1.15E-04	-2.04	2.66E-04	-2.35	2.70E-05

<i>Zscan12</i>	1.38	1.68E-06	1.69	8.69E-07	1.16	6.16E-06
<i>Zscan22</i>	1.00	1.96E-07	1.02	4.50E-07	1.32	1.48E-08
<i>Zswim4</i>	-1.27	6.21E-08	-1.58	3.92E-08	-1.46	1.26E-08
<i>Zswim6</i>	-1.88	1.99E-08	-1.93	4.19E-08	-2.05	5.02E-09
<i>Zwilch</i>	-1.60	1.01E-06	-1.78	1.17E-06	-1.19	9.73E-06

Lists of DEGs, their  $\log_2(\text{FC})$  and adjusted  $p$  values generated for each condition were compared using Venn diagrams to obtain the list of overlapping genes between IL-7 and IFN- $\gamma$  overnight stimulation in both WT and STAT1 Tg CD4 T cells. \* Fold changes (FC) were calculated relative to unstimulated condition for each sample.

**Table S8. Categories of diseases and biological functions predicted to be affected by IPA within DEGs****in WT and STAT1 Tg CD4 Naive T cells stimulated with IL-7**

Categories	Diseases or functions annotation	P-value <sup>★</sup>	Predicted activation state	Activation on z-score <sup>€</sup>	# Mol <sup>§§</sup>
<b>WT cells stimulated with IL-7 (90')</b>					
<i>Cellular Growth and Proliferation</i>	generation of cells	1.26E-12	Increased	3.472	134
<i>Cellular Growth and Proliferation</i>	proliferation of cells	3.16E-16	Increased	3.22	221
<i>Hematological System Development and Function</i>	development of blood cells	6.08E-20	Increased	3.115	79
<i>Cellular Growth and Proliferation</i>	proliferation of epithelial cells	3.22E-10	Increased	3.046	46
<i>Cell Death and Survival</i>	cell survival	5.35E-10	Increased	3.022	95
<i>Hematological System Development and Function</i>	development of leukocytes	3.85E-22	Increased	2.993	77
<i>Cellular Growth and Proliferation</i>	proliferation of blood cells	1.15E-20	Increased	2.952	89
<i>Cell-To-Cell Signaling and Interaction</i>	activation of T lymphocytes	1.08E-10	Increased	2.912	38
<i>Gene Expression</i>	transactivation of RNA	1.20E-09	Increased	2.759	48
<i>Cellular Growth and Proliferation</i>	proliferation of lymphocytes	4.87E-21	Increased	2.72	82
<i>Hematological System Development and Function</i>	development of lymphocytes	1.02E-22	Increased	2.696	74
<i>Organismal Injury and Abnormalities</i>	malignant solid tumor	5.68E-14	Increased	2.62	488
<i>Cellular Growth and Proliferation</i>	proliferation of mononuclear leukocytes	3.06E-21	Increased	2.617	83
<i>Cellular Growth and Proliferation</i>	proliferation of immune cells	8.76E-20	Increased	2.61	84
<i>Cell Death and Survival</i>	cell viability	3.55E-09	Increased	2.551	88
<i>Hematological System Development and Function</i>	quantity of thymus gland	1.74E-13	Increased	2.548	33
<i>Cellular Function and Maintenance</i>	homeostasis of leukocytes	1.49E-21	Increased	2.496	72
<i>Cellular Function and Maintenance</i>	Lymphocyte homeostasis	2.27E-21	Increased	2.489	71
<i>Cell-To-Cell Signaling and Interaction</i>	activation of cells	3.07E-17	Increased	2.486	90
<i>Cell Death and Survival</i>	cell viability of leukocytes	2.25E-13	Increased	2.478	35
<i>Cell-To-Cell Signaling and Interaction</i>	activation of lymphocytes	2.24E-15	Increased	2.471	53
<i>Gene Expression</i>	transactivation	3.70E-09	Increased	2.465	49
<i>Cellular Growth and Proliferation</i>	cell proliferation of T lymphocytes	6.18E-19	Increased	2.447	69
<i>Organismal Injury and Abnormalities</i>	lymphatic node tumor	8.60E-09	Increased	2.424	49
<i>Organismal Injury and Abnormalities</i>	neoplasia of tumor cell lines	4.82E-06	Increased	2.424	27
<i>Cell Death and Survival</i>	cell viability of lymphocytes	1.28E-11	Increased	2.388	27
<i>Cellular Growth and Proliferation</i>	proliferation of B lymphocytes	9.47E-11	Increased	2.383	34
<i>Cellular Growth and Proliferation</i>	cell proliferation of leukocyte cell lines	2.76E-12	Increased	2.376	29
<i>Cell Death and Survival</i>	cell death of cervical cancer cell lines	5.59E-08	Increased	2.37	33
<i>Organismal Injury and Abnormalities</i>	progression of tumor	4.40E-08	Increased	2.36	20
<i>Cellular Growth and Proliferation</i>	proliferation of B-lymphocyte derived cell lines	2.61E-07	Increased	2.352	16
<i>Cellular Growth and Proliferation</i>	proliferation of hematopoietic cells	4.97E-08	Increased	2.316	27
<i>Hematological System Development and Function</i>	T cell development	2.66E-21	Increased	2.316	68
<i>Hematological System Development and Function</i>	T cell homeostasis	2.24E-21	Increased	2.304	69
<i>Hematological System Development and Function</i>	quantity of thymocytes	3.77E-12	Increased	2.275	31
<i>Hematological System Development and Function</i>	quantity of bone marrow cells	5.93E-07	Increased	2.272	19
<i>Organismal Injury and Abnormalities</i>	non-Hodgkin's disease	1.09E-08	Increased	2.242	47

<i>Post-Translational Modification</i>	phosphorylation of protein	2.06E-09	Increased	2.229	57
<i>Cell Death and Survival</i>	apoptosis of cervical cancer cell lines	1.42E-06	Increased	2.227	26
<i>Cell Cycle</i>	S phase	1.97E-07	Increased	2.218	26
<i>Cell Death and Survival</i>	cell viability of T lymphocytes	6.79E-13	Increased	2.207	22
<i>Organismal Injury and Abnormalities</i>	advanced neoplasia	3.61E-12	Increased	2.205	74
<i>Organismal Injury and Abnormalities</i>	advanced malignant tumor	9.42E-12	Increased	2.205	73
<i>Organismal Injury and Abnormalities</i>	metastasis	3.00E-11	Increased	2.205	67
<i>Organismal Injury and Abnormalities</i>	fibrosarcoma	4.75E-06	Increased	2.194	9
<i>Organismal Injury and Abnormalities</i>	cancer	1.40E-13	Increased	2.193	491
<i>Organismal Injury and Abnormalities</i>	neoplasia of lymphoid organ	1.79E-08	Increased	2.176	50
<i>Cellular Growth and Proliferation</i>	cell proliferation of tumor cell lines	2.11E-11	Increased	2.144	107
<i>Gene Expression</i>	activation of DNA endogenous promoter	8.56E-07	Increased	2.134	75
<i>Hematological System Development and Function</i>	quantity of regulatory T lymphocytes	5.61E-07	Increased	2.104	15
<i>Cancer</i>	cell transformation	2.20E-07	Increased	2.033	38
<i>Cell Death and Survival</i>	cell death	2.61E-16	Increased	2.016	205
<i>Cell-To-Cell Signaling and Interaction</i>	binding of cells	9.52E-11	Increased	2.005	46
<i>Hematological System Development and Function</i>	quantity of neutrophils	8.69E-06	Decreased	-2.188	21
<i>Hematological System Development and Function</i>	quantity of granulocytes	3.14E-07	Decreased	-2.259	29
<i>Infectious Diseases</i>	infection of mammalia	1.10E-12	Decreased	-2.429	40
<i>Infectious Diseases</i>	Bacterial Infections	6.36E-08	Decreased	-2.54	36
<i>Organismal Survival</i>	organismal death	4.57E-09	Decreased	-2.878	139
<i>Organismal Survival</i>	morbidity or mortality	2.47E-10	Decreased	-2.94	145

**STAT1 Tg cells stimulated with IL-7 (90')**

<i>Cellular Growth and Proliferation</i>	generation of cells	1.77E-12	Increased	3.176	133
<i>Cellular Growth and Proliferation</i>	formation of osteoclasts	2.14E-06	Increased	2.707	15
<i>Cell Death and Survival</i>	cell viability of mononuclear leukocytes	6.46E-12	Increased	2.66	28
<i>Hematological System Development and Function</i>	development of blood cells	2.24E-18	Increased	2.64	76
<i>Gene Expression</i>	transactivation of RNA	8.51E-09	Increased	2.6	46
<i>Cell Death and Survival</i>	cell survival	1.86E-09	Increased	2.542	93
<i>Hematological System Development and Function</i>	development of leukocytes	4.83E-21	Increased	2.523	75
<i>Cell Death and Survival</i>	cell viability of lymphocytes	1.12E-11	Increased	2.497	27
<i>Cell-To-Cell Signaling and Interaction</i>	activation of cells	1.83E-15	Increased	2.433	86
<i>Organismal Injury and Abnormalities</i>	lymphatic node tumor	1.96E-08	Increased	2.424	48
<i>Cell-To-Cell Signaling and Interaction</i>	activation of mononuclear leukocytes	1.58E-14	Increased	2.381	53
<i>Cell Death and Survival</i>	cell viability of blood cells	1.33E-12	Increased	2.326	36
<i>Hematological System Development and Function</i>	development of mononuclear leukocytes	5.97E-22	Increased	2.261	73
<i>Hematological System Development and Function</i>	development of antigen presenting cells	4.62E-06	Increased	2.243	13
<i>Organismal Injury and Abnormalities</i>	non-Hodgkin's disease	6.92E-08	Increased	2.242	45
<i>Cell Death and Survival</i>	cell viability of leukocytes	1.91E-13	Increased	2.209	35
<i>Cell Death and Survival</i>	cell viability	2.68E-09	Increased	2.205	88
<i>Cell-To-Cell Signaling and Interaction</i>	activation of lymphocytes	2.88E-14	Increased	2.164	51
<i>Organismal Injury and Abnormalities</i>	malignant solid tumor	8.70E-14	Increased	2.15	485
<i>Cell-To-Cell Signaling and Interaction</i>	activation of T lymphocytes	1.27E-09	Increased	2.127	36
<i>Post-Translational Modification</i>	phosphorylation of protein	6.19E-10	Increased	2.101	58
<i>Hematological System Development and Function</i>	development of lymphocytes	1.44E-21	Increased	2.079	72
<i>Cell Death and Survival</i>	cell viability of T lymphocytes	4.24E-11	Increased	2.07	20
<i>Hematological System Development and</i>	quantity of bone marrow cells	4.78E-09	Increased	2.052	22



<i>Function</i>					
<i>Hematological System Development and Function</i>	development of bone marrow	1.09E-06	Increased	2.05	18
<i>Cellular Function and Maintenance</i>	homeostasis of leukocytes	1.07E-21	Increased	2.041	72
<i>Cellular Function and Maintenance</i>	Lymphocyte homeostasis	3.12E-20	Increased	2.033	69
<i>Hematological System Development and Function</i>	development of phagocytes	1.61E-06	Increased	2.033	15
<i>Cellular Growth and Proliferation</i>	proliferation of blood cells	1.54E-22	Increased	2.015	92
<i>Cellular Function and Maintenance</i>	cellular homeostasis	2.82E-14	Increased	2.011	114
<i>Cellular Growth and Proliferation</i>	proliferation of epithelial cells	2.33E-08	Increased	2.008	42
<i>Cellular Function and Maintenance</i>	function of phagocytes	3.50E-11	Increased	2	35
<i>Infectious Diseases</i>	infection of mammalia	4.63E-14	Decreased	-2.393	42
<i>Infectious Diseases</i>	Bacterial Infections	4.81E-10	Decreased	-2.857	40
<i>Organismal Survival</i>	organismal death	1.15E-07	Decreased	-3.005	133
<i>Organismal Survival</i>	morbidity or mortality	2.57E-08	Decreased	-3.14	137

**WT cells stimulated with IL-7 (Overnight)**

<i>Organismal Survival</i>	organismal death	1.30E-14	Increased	8.235	495
<i>Organismal Survival</i>	morbidity or mortality	1.17E-14	Increased	7.756	501
<i>Inflammatory Response</i>	inflammation of body cavity	4.66E-08	Increased	3.03	169
<i>Cell Death and Survival</i>	apoptosis	1.63E-19	Increased	2.758	563
<i>Inflammatory Response</i>	inflammation of organ	1.80E-10	Increased	2.741	268
<i>Inflammatory Response</i>	inflammation of secretory structure	3.41E-06	Increased	2.521	41
<i>Inflammatory Response</i>	inflammation of body region	6.44E-13	Increased	2.399	243
<i>Hematological System Development and Function</i>	quantity of memory T lymphocytes	1.64E-08	Increased	2.329	25
<i>Infectious Diseases</i>	Viral Infection	3.41E-08	Decreased	-2.023	320
<i>Cellular Growth and Proliferation</i>	proliferation of mononuclear leukocytes	1.82E-21	Decreased	-2.025	209
<i>Cellular Growth and Proliferation</i>	growth of neurites	3.87E-06	Decreased	-2.034	100
<i>Gene Expression</i>	activation of DNA endogenous promoter	2.85E-14	Decreased	-2.061	274
<i>Cellular Assembly and Organization</i>	organization of cytoplasm	4.89E-07	Decreased	-2.086	302
<i>Cellular Assembly and Organization</i>	organization of cytoskeleton	3.85E-06	Decreased	-2.086	272
<i>Hematological System Development and Function</i>	differentiation of helper T lymphocytes	2.01E-09	Decreased	-2.1	55
<i>Hematological System Development and Function</i>	differentiation of blood cells	1.91E-20	Decreased	-2.11	227
<i>Inflammatory Response</i>	immune response of cells	5.14E-08	Decreased	-2.119	129
<i>Gene Expression</i>	transcription	1.62E-17	Decreased	-2.121	447
<i>Cellular Movement</i>	cell movement of leukocytes	9.34E-10	Decreased	-2.123	175
<i>Hematological System Development and Function</i>	differentiation of leukocytes	9.39E-17	Decreased	-2.259	180
<i>Cellular Movement</i>	recruitment of leukocytes	2.35E-08	Decreased	-2.271	81
<i>Hematological System Development and Function</i>	differentiation of T lymphocytes	3.60E-13	Decreased	-2.287	106
<i>Hematological System Development and Function</i>	T cell development	4.64E-18	Decreased	-2.296	153
<i>Cellular Growth and Proliferation</i>	proliferation of neuronal cells	4.44E-06	Decreased	-2.307	121
<i>Cellular Growth and Proliferation</i>	cytostasis	2.14E-07	Decreased	-2.307	69
<i>Hematological System Development and Function</i>	T cell homeostasis	5.72E-19	Decreased	-2.309	158
<i>Cellular Movement</i>	recruitment of phagocytes	1.26E-05	Decreased	-2.323	57
<i>Hematological System Development and Function</i>	differentiation of lymphocytes	2.18E-16	Decreased	-2.383	141
<i>Lymphoid Tissue Structure and Development</i>	formation of lymphatic system component	1.74E-07	Decreased	-2.492	73
<i>Cellular Movement</i>	recruitment of cells	3.66E-09	Decreased	-2.516	90
<i>Cellular Movement</i>	leukocyte migration	1.93E-12	Decreased	-2.544	206

<i>Cellular Function and Maintenance</i>	homeostasis of leukocytes	2.96E-19	Decreased	-2.564	167
<i>Cellular Function and Maintenance</i>	Lymphocyte homeostasis	2.54E-19	Decreased	-2.572	165
<i>Cellular Movement</i>	recruitment of blood cells	2.32E-09	Decreased	-2.594	85
<i>Cellular Function and Maintenance</i>	homeostasis of blood cells	8.74E-20	Decreased	-2.633	169
<i>Cellular Movement</i>	recruitment of granulocytes	6.94E-06	Decreased	-2.649	51
<i>Hematological System Development and Function</i>	differentiation of mononuclear leukocytes	1.95E-16	Decreased	-2.676	151
<i>Cellular Movement</i>	recruitment of myeloid cells	2.24E-06	Decreased	-2.683	55
<i>Hematological System Development and Function</i>	development of leukocytes	1.01E-18	Decreased	-2.76	178
<i>Hematological System Development and Function</i>	development of blood cells	1.42E-19	Decreased	-2.765	198
<i>Cellular Growth and Proliferation</i>	cytostasis of tumor cell lines	1.17E-05	Decreased	-2.791	39
<i>Hematological System Development and Function</i>	development of mononuclear leukocytes	2.62E-19	Decreased	-2.8	169
<i>Cellular Movement</i>	migration of cells	9.64E-14	Decreased	-2.804	405
<i>Hematological System Development and Function</i>	development of lymphocytes	5.10E-19	Decreased	-2.81	167
<i>Cellular Growth and Proliferation</i>	generation of cells	5.63E-17	Decreased	-2.817	442
<i>Cell Death and Survival</i>	cell viability of tumor cell lines	9.45E-10	Decreased	-2.83	177
<i>Lipid Metabolism</i>	synthesis of lipid	2.45E-06	Decreased	-2.831	148
<i>Cell Death and Survival</i>	cell viability of leukocytes	1.22E-09	Decreased	-2.948	70
<i>Inflammatory Response</i>	immune response of leukocytes	4.66E-07	Decreased	-3	73
<i>Cellular Movement</i>	cell movement	7.97E-15	Decreased	-3.058	451
<i>Cell Death and Survival</i>	cell viability of blood cells	7.94E-09	Decreased	-3.148	74
<i>Organismal Survival</i>	survival of organism	8.98E-12	Decreased	-3.156	169
<i>Inflammatory Response</i>	antibody response	3.66E-07	Decreased	-3.195	44
<i>Cellular Growth and Proliferation</i>	proliferation of cells	6.90E-33	Decreased	-3.443	809
<i>Cellular Function and Maintenance</i>	cellular homeostasis	6.62E-17	Decreased	-3.941	352
<i>Cell Death and Survival</i>	cell viability	1.69E-14	Decreased	-4.434	296
<i>Cell Death and Survival</i>	cell survival	2.27E-16	Decreased	-4.875	321

**STAT1 Tg cells stimulated with IL-7 (Overnight)**

<i>Organismal Survival</i>	organismal death	4.70E-16	Increased	9.282	550
<i>Organismal Survival</i>	morbidity or mortality	5.64E-16	Increased	8.765	556
<i>Inflammatory Response</i>	inflammation of body cavity	3.28E-08	Increased	3.094	185
<i>Hematological System Development and Function</i>	quantity of memory T lymphocytes	3.08E-08	Increased	2.845	26
<i>Cell Death and Survival</i>	apoptosis	2.39E-20	Increased	2.507	620
<i>Inflammatory Disease</i>	chronic inflammatory disorder	2.79E-07	Increased	2.475	220
<i>Inflammatory Response</i>	inflammation of organ	2.95E-13	Increased	2.389	306
<i>Organismal Injury and Abnormalities</i>	lymphocytic cancer	4.34E-09	Increased	2.092	176
<i>Inflammatory Response</i>	inflammation of secretory structure	5.74E-07	Increased	2.059	46
<i>Organismal Injury and Abnormalities</i>	lymphoreticular neoplasm	3.49E-09	Increased	2.047	177
<i>Inflammatory Response</i>	inflammation of body region	5.34E-15	Increased	2.043	273
<i>Organismal Injury and Abnormalities</i>	hyperplasia of lymphocytes	8.51E-07	Increased	2.01	17
<i>Inflammatory Response</i>	antibody response	8.08E-09	Decreased	-2.006	51
<i>Cell Death and Survival</i>	cell viability of mononuclear leukocytes	1.41E-08	Decreased	-2.008	58
<i>DNA Replication, Recombination, and Repair</i>	repair of DNA	9.89E-08	Decreased	-2.012	77
<i>Gene Expression</i>	expression of RNA	1.86E-19	Decreased	-2.017	527
<i>Hematological System Development and Function</i>	quantity of phagocytes	2.93E-13	Decreased	-2.03	124
<i>Cell Death and Survival</i>	cell viability of lymphocytes	1.41E-08	Decreased	-2.035	56
<i>Cell Cycle</i>	G1 phase	1.02E-07	Decreased	-2.06	99
<i>Gene Expression</i>	transactivation	8.14E-14	Decreased	-2.068	162

<i>Humoral Immune Response</i>	class switching	9.82E-10	Decreased	-2.069	34
<i>Cell Death and Survival</i>	cell viability of T lymphocytes	5.26E-09	Decreased	-2.116	39
<i>Cellular Growth and Proliferation</i>	colony formation	8.33E-08	Decreased	-2.121	132
<i>Cancer</i>	cell transformation	1.88E-11	Decreased	-2.126	127
<i>Cellular Movement</i>	cell movement of leukocytes	4.18E-11	Decreased	-2.14	196
<i>Hematological System Development and Function</i>	differentiation of B lymphocytes	1.12E-07	Decreased	-2.142	61
<i>Cellular Movement</i>	leukocyte migration	3.12E-13	Decreased	-2.186	227
<i>Cell Death and Survival</i>	cell viability of phagocytes	3.21E-07	Decreased	-2.214	34
<i>Gene Expression</i>	transcription of RNA	1.02E-20	Decreased	-2.262	461
<i>Hematological System Development and Function</i>	development of hematopoietic system	1.42E-09	Decreased	-2.285	83
<i>Cellular Growth and Proliferation</i>	cell proliferation of tumor cell lines	2.92E-14	Decreased	-2.397	373
<i>Cellular Growth and Proliferation</i>	colony formation of cells	2.85E-07	Decreased	-2.411	120
<i>Cellular Growth and Proliferation</i>	cytostasis of tumor cell lines	1.90E-06	Decreased	-2.414	44
<i>Hematological System Development and Function</i>	differentiation of leukocytes	2.75E-16	Decreased	-2.43	193
<i>Hematological System Development and Function</i>	differentiation of helper T lymphocytes	4.85E-09	Decreased	-2.44	58
<i>Hematological System Development and Function</i>	development of hematopoietic cells	2.93E-06	Decreased	-2.527	58
<i>Hematological System Development and Function</i>	differentiation of blood cells	5.12E-20	Decreased	-2.568	244
<i>Cellular Growth and Proliferation</i>	cell proliferation of breast cell lines	5.64E-12	Decreased	-2.571	48
<i>Lipid Metabolism</i>	synthesis of fatty acid	2.67E-06	Decreased	-2.58	77
<i>Hematological System Development and Function</i>	development of follicular T helper cells	8.36E-07	Decreased	-2.6	9
<i>Organismal Injury and Abnormalities</i>	growth of tumor	1.68E-08	Decreased	-2.612	190
<i>Hematological System Development and Function</i>	differentiation of T lymphocytes	2.61E-14	Decreased	-2.641	117
<i>Inflammatory Response</i>	immune response of cells	5.21E-10	Decreased	-2.667	148
<i>Gene Expression</i>	transcription	2.10E-19	Decreased	-2.731	497
<i>Hematological System Development and Function</i>	differentiation of lymphocytes	1.38E-17	Decreased	-2.747	155
<i>Cell Death and Survival</i>	self-renewal of cells	1.94E-06	Decreased	-2.764	36
<i>Hematological System Development and Function</i>	T cell development	2.68E-21	Decreased	-2.784	173
<i>Hematological System Development and Function</i>	T cell homeostasis	4.11E-22	Decreased	-2.793	178
<i>Cellular Growth and Proliferation</i>	growth of neurites	1.79E-08	Decreased	-2.804	118
<i>Infectious Diseases</i>	Viral Infection	3.51E-10	Decreased	-2.853	363
<i>Lymphoid Tissue Structure and Development</i>	formation of lymphatic system component	2.74E-10	Decreased	-2.963	87
<i>Cell-To-Cell Signaling and Interaction</i>	immune response of leukocytes	1.11E-08	Decreased	-2.968	84
<i>Cellular Function and Maintenance</i>	homeostasis of leukocytes	2.10E-22	Decreased	-3.059	188
<i>Cellular Function and Maintenance</i>	Lymphocyte homeostasis	1.40E-22	Decreased	-3.066	186
<i>Hematological System Development and Function</i>	differentiation of mononuclear leukocytes	1.30E-17	Decreased	-3.069	166
<i>Cell Death and Survival</i>	cell viability of leukocytes	6.04E-10	Decreased	-3.072	76
<i>Cellular Growth and Proliferation</i>	proliferation of neuronal cells	6.31E-10	Decreased	-3.079	148
<i>Hematological System Development and Function</i>	development of leukocytes	2.03E-22	Decreased	-3.091	202
<i>Cellular Assembly and Organization</i>	outgrowth of neurites	2.85E-07	Decreased	-3.096	101
<i>Hematological System Development and Function</i>	development of mononuclear leukocytes	9.10E-23	Decreased	-3.135	191
<i>Hematological System Development and Function</i>	development of lymphocytes	1.59E-22	Decreased	-3.145	189
<i>Cellular Function and Maintenance</i>	homeostasis of blood cells	6.34E-23	Decreased	-3.186	190
<i>Hematological System Development and Function</i>	development of blood cells	7.28E-23	Decreased	-3.229	223
<i>Cellular Movement</i>	invasion of cells	6.03E-07	Decreased	-3.266	198

<i>Cellular Growth and Proliferation</i>	outgrowth of cells	5.78E-07	Decreased	-3.352	106
<i>Cellular Growth and Proliferation</i>	generation of cells	1.38E-19	Decreased	-3.544	495
<i>Cell Death and Survival</i>	cell viability of blood cells	5.09E-10	Decreased	-3.558	83
<i>Cellular Growth and Proliferation</i>	proliferation of cells	1.92E-34	Decreased	-3.745	891
<i>Cellular Function and Maintenance</i>	cellular homeostasis	2.09E-15	Decreased	-3.795	377
<i>Cellular Movement</i>	migration of cells	9.15E-17	Decreased	-3.893	458
<i>Organismal Survival</i>	survival of organism	1.12E-11	Decreased	-3.958	183
<i>Cell Death and Survival</i>	cell viability of tumor cell lines	4.68E-12	Decreased	-4.01	202
<i>Cellular Movement</i>	cell movement	4.24E-17	Decreased	-4.252	505
<i>Cell Death and Survival</i>	cell viability	5.00E-16	Decreased	-5.606	329
<i>Cell Death and Survival</i>	cell survival	3.54E-18	Decreased	-6.272	357

Lists of DEGs. their  $\log_2(\text{FC})$  and adjusted  $p$  values were generated for WT and STAT1 Tg CD4 T cells stimulated for 90 minutes or overnight with rmIL-7 and used as input in IPA software. \*The  $p$ -value was calculated with the Fischer's exact test and reflects the likelihood that the association between a set of genes in dataset and a related biological function is significant. °A positive or negative z-score value indicates that a function is predicted to be increased or decreased in T cells stimulated with IL-7. ¤Number of RNAs differentially expressed in the disease and functions category.

**Table S9. Primer sequences**

<b>Genes</b>	<b>Forward</b>	<b>Reverse</b>
<i>Bcl2</i>	CCTGGCTGTCTCTGAAGACC	CTCACTTGTGGCCCAGGTAT
<i>Cish</i>	CCATGCA GCCCTTACCCAC	GTACCACCCAGATTCCCGAAG
<i>Cxcl10</i>	TGCGAGCCTATCCTGCCCACGTG	CCGGGGTGTGTGCGTGGCTTCA
<i>Ifit1</i>	ACCATGGGAGAGAATGCTGAT	GCCAGGAGGTTGTGC
<i>Socs1</i>	TTCTTGGTGC GCGACAGTC	AAGCCATCTTCACGCTGAGC
<i>Bik</i>	GTCGGAGG CGAGACTTATGG	GTTTCTGCCTTCCACGCACT
<i>Ifi27</i>	TAGCTGC TGTACCACCTGCG	CAGCTCCAGCAGACTGCAGAA
<i>Socs2</i>	CTGCGGATTGAGTACCAAGAT	CCTTGCACATCTGGACATAGT
<i>Hprt</i>	GCGATGATGAACCAGGTTATGA	ACAATGTGATGGCCTCCCAT