

Supplemental Methods

Supplemental Methods: Proteomics sample preparation, LC-MS/MS analysis and data analysis.

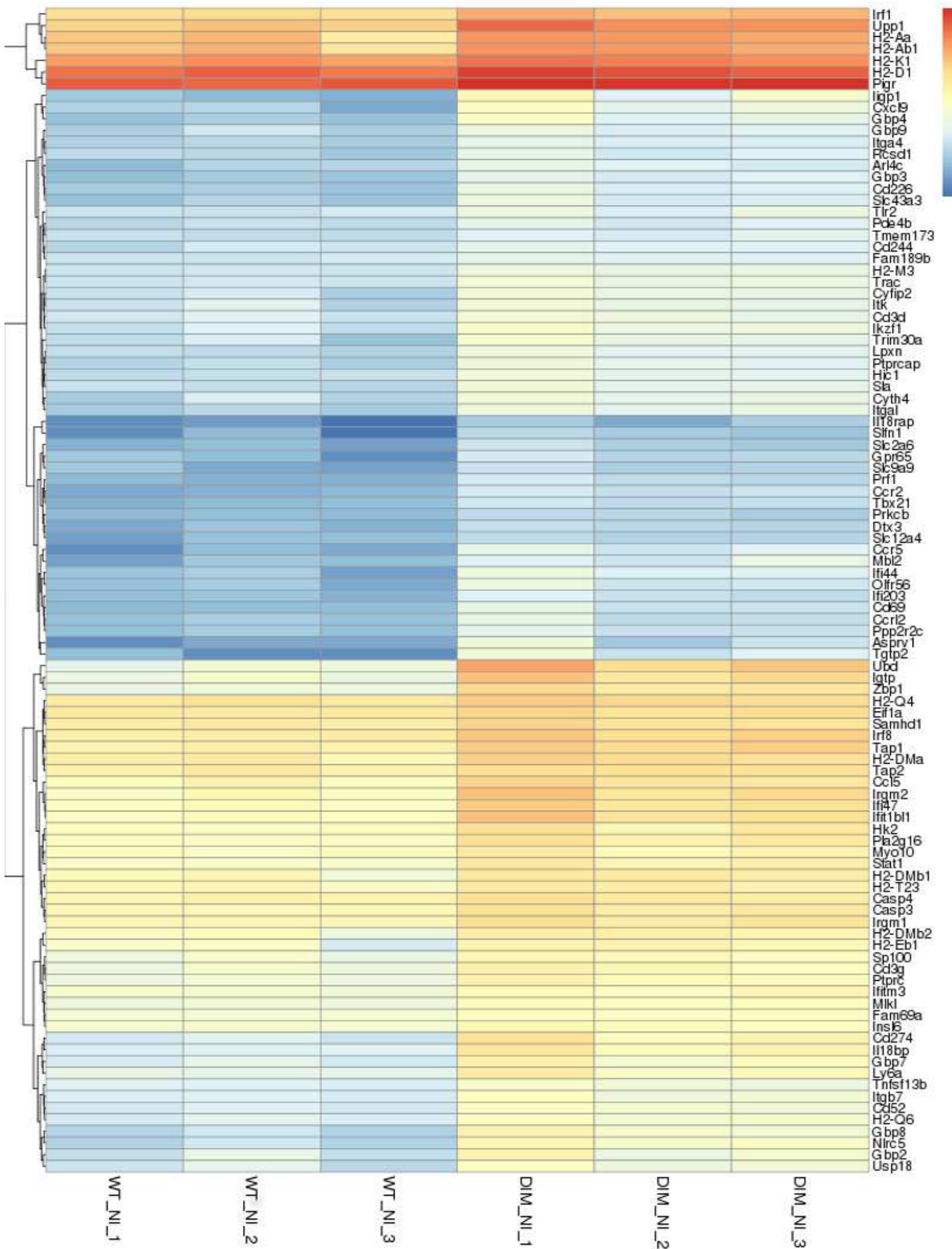
Proteomics sample preparation. Ileums from GRwt/wt mice and GRdim/dim (n=3 per group) were collected, washed several times with PBS and snap frozen with liquid nitrogen. The ileums were homogenized in lysis buffer containing 9 M urea, 20 mM HEPES pH 8.0. Samples were sonicated by 3 pulses of 15 seconds at an amplitude of 20% and centrifuged for 15 minutes at 16,000 x g at room temperature to remove insoluble components. The protein concentration in the supernatant of each replicate sample was measured using a Bradford assay (Biorad) and equal protein amounts, each containing 0.5 mg total protein, were used for further analysis. Proteins in each sample were reduced by addition of 5 mM DTT and incubation for 30 minutes at 55°C. Alkylation of the proteins was performed by addition of 10 mM chloroacetamide and incubation for 15 minutes at room temperature in the dark. Next, samples were diluted with 20 mM HEPES pH 8.0 to a urea concentration of 4 M and proteins were digested with 4 µg lysyl endopeptidase (Wako) (1/125, w/w) for 4 hours at room temperature. All samples were further diluted with 20 mM HEPES pH 8.0 to a final urea concentration of 2 M and proteins were digested with 5 µg of trypsin (Promega) (1/100, w/w) overnight at 37 °C. The resulting peptide mixtures were purified on SampliQ C18 cartridges (Agilent), dried under vacuum in HPLC inserts and stored at -20°C until LC-MS/MS analysis.

LC-MS/MS analysis. Purified peptides were re-dissolved in loading solvent A (0.1% TFA in water/ACN (98:2, v/v)) and 3 µg of peptides were injected for LC-MS/MS analysis on an Ultimate 3000 RSLCnano ProFlow system in-line connected to a Q Exactive HF mass spectrometer (Thermo). Trapping was performed at 10 µl/min for 4 min in loading solvent A on a 20 mm trapping column (made in-house, 100 µm internal diameter (I.D.), 5 µm beads, C18 Reprosil-HD, Dr. Maisch, Germany) and the sample was loaded on a 400 mm analytical column (made in-house, 75 µm I.D., 1.9 µm beads C18 Reprosil-HD, Dr. Maisch). Peptides were eluted by a non-linear gradient from 2 to 56% MS solvent B (0.1% FA in water/acetonitrile (2:8, v/v)) over 145 minutes at a constant flow rate of 250 nl/min, followed by a 15-minutes wash reaching 97% MS solvent B and re-equilibration with MS solvent A (0.1% FA in water). The column temperature was kept constant at 50°C in a column oven (Butterfly, Phoenix S&T). The mass spectrometer was operated in data-dependent mode, automatically switching between MS and MS/MS acquisition for the 16 most abundant ion peaks per MS spectrum. Full-scan MS spectra (375-1500 m/z) were acquired at a resolution of 60,000 in the orbitrap analyzer after accumulation to a target value of 3E6. The 16 most intense ions above a threshold value of 1.3E4 were isolated for fragmentation at a normalized collision energy of 28% after filling the trap at a target value of 1E5 for maximum 80 ms. MS/MS spectra (200-2000 m/z) were acquired at a resolution of 15,000 in the orbitrap analyzer.

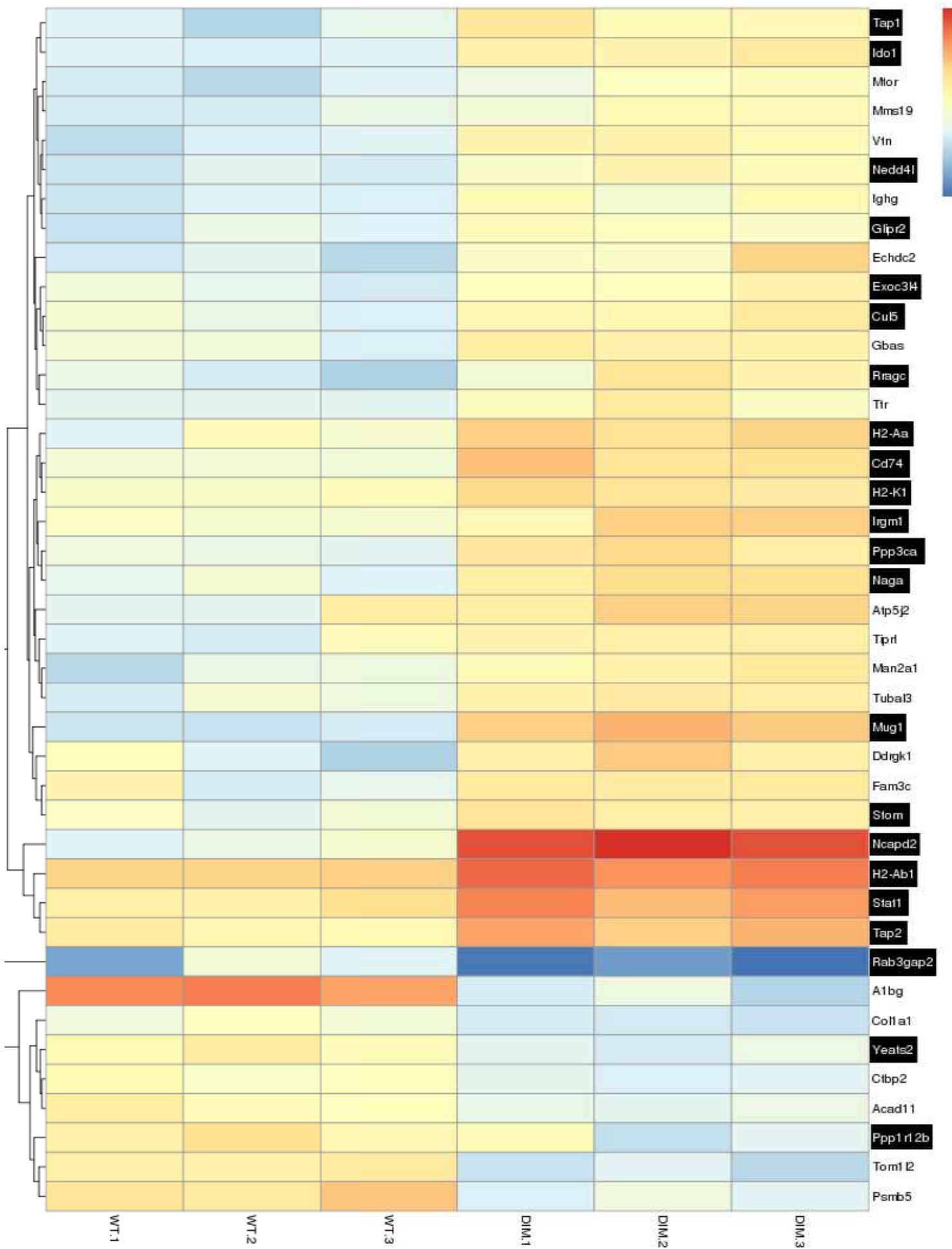
Data Analysis. Data analysis was performed with MaxQuant (version 1.5.8.3) using the Andromeda search engine with default search settings including a false discovery rate set at 1% on both the peptide and protein level. The searches spectra were interrogated against all mouse proteins in the Uniprot/Swiss-Prot database (database release version of September 2017 containing 16,923 human protein sequences, www.uniprot.org) with a mass tolerance for precursor ions of 4.5 ppm, and a mass tolerance for fragment ions of 0.5 Da. Enzyme specificity was set as C-terminal to arginine and lysine (trypsin), also allowing cleavage at arginine/lysine-proline bonds with a maximum of two missed cleavages. Carbamidomethylation of cysteine residues was set as a fixed modification and variable modifications were set to oxidation of methionine (to sulfoxides) and acetylation of protein N-termini. Matching between runs was enabled with an alignment time window of 20 minutes and a

matching time window of 1 minute. Only proteins with at least one unique or razor peptide were retained leading to the identification of 3036 mouse proteins. Further data analysis was performed with the Perseus software (version 1.5.3.0) after loading the ProteinGroups table from MaxQuant. Hits identified in the Reverse database, hits identified only by modification site and potential contaminants were removed. The LFQ intensities for each sample were log₂ transformed and replicate samples were grouped. Proteins with less than three valid values in at least one group were removed and missing values were imputed from a normal distribution around the detection limit. Then, a Student's t-test was performed (FDR=0.05 and S0=1) to compare LFQ intensities in GRdim/dim and GRwt/wt samples (Supplemental File SF4). All mass spectrometry proteomics data have been deposited to the ProteomeXchange Consortium via the PRIDE partner repository with the dataset identifier PXD008608.

Supplemental Figure 1: Heat Map of a subset of genes that are upregulated in IECs of GR^{dim/dim} mice. In total, 460 genes appeared significantly upregulated in GR^{dim/dim} mice compared to GR^{wt/wt} mice. Of these genes, 228 are known to belong to the Interferome gene family. Here, 102 of these genes are shown in a heat map.



Supplemental Figure 2: Heat Map of all proteins that were significantly higher in ileum samples of GR^{dim/dim} compared to GR^{wt/wt} mice. Only proteins with adjusted p-value < 0.05 and with LFC of <1.0 are listed. Interferome proteins are labeled with a black background.



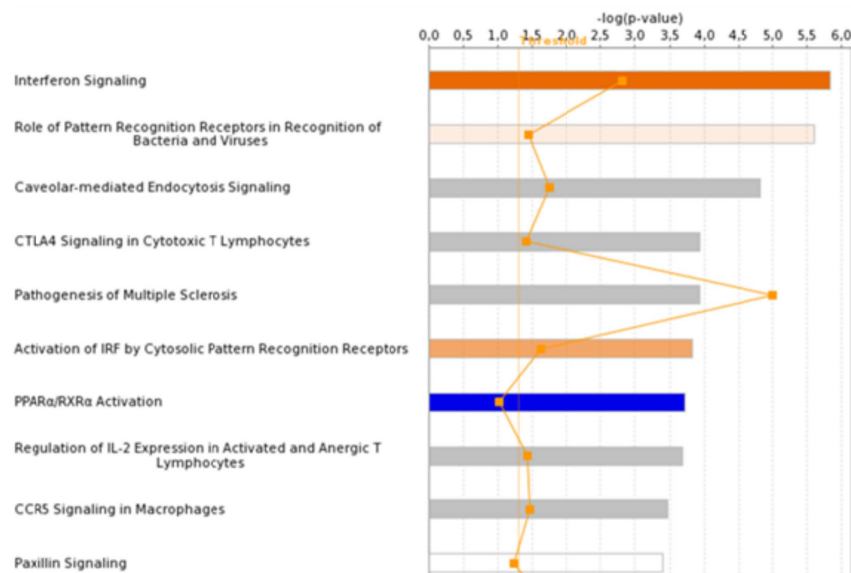
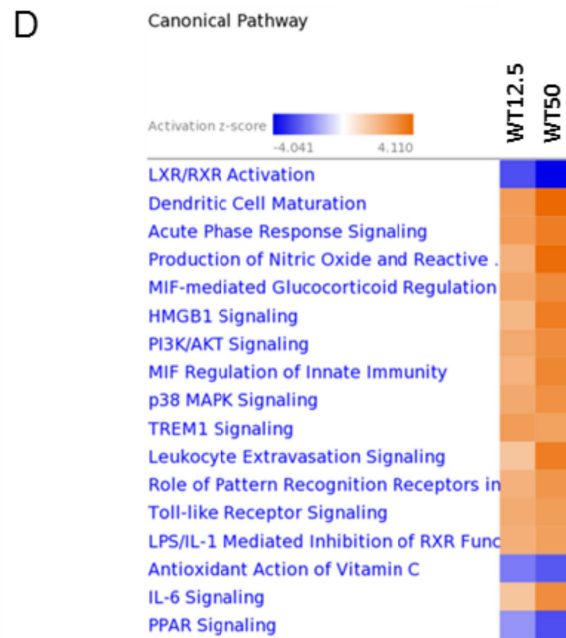
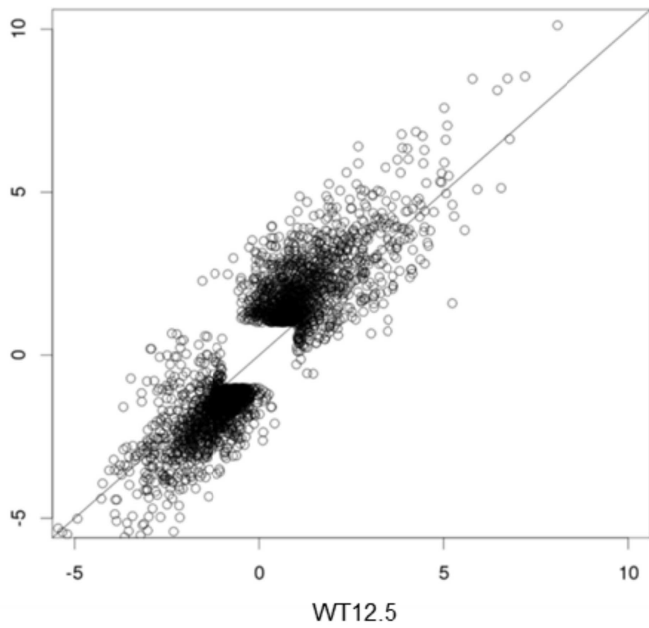
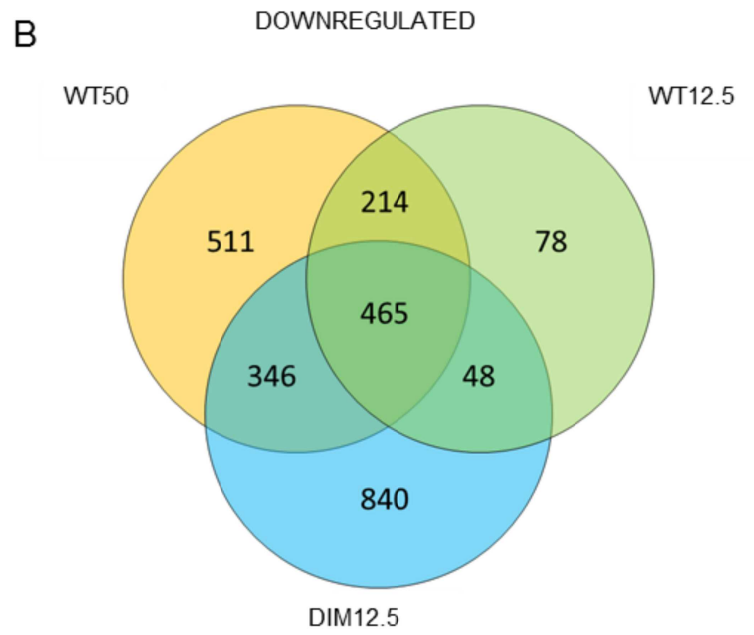
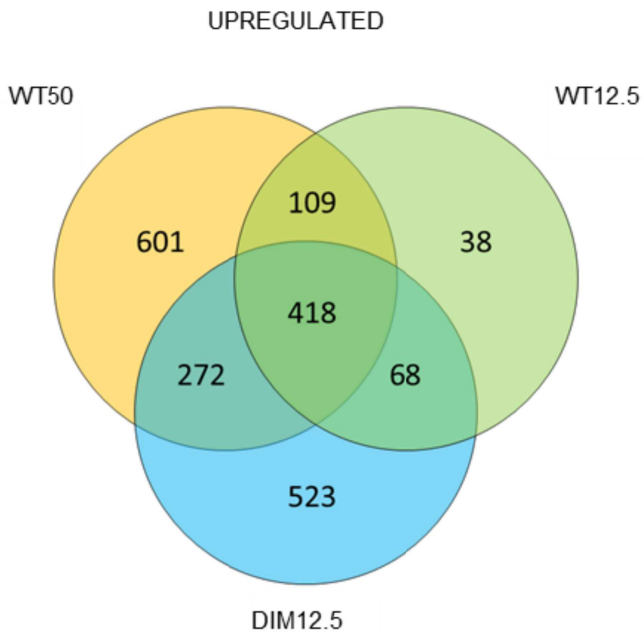
Supplemental Figure 3: Overview of RNAseq data with sublethal and lethal doses of TNF in GR^{wt/wt} and GR^{dim/dim} mice. GR^{wt/wt} mice were treated with 12.5 µg (WT12.5) or 50 µg (WT50) and GR^{dim/dim} mice with 12.5 µg of TNF (DIM12.5). After eight hours, IECs were isolated and RNA sequencing was performed on RNA samples (n=3 per group).

(A-B) Overlap of upregulated and downregulated genes after TNF treatment compared to the respective non-induced controls. DIM12.5 has the most differential gene regulation upon TNF treatment and, while there is overlap with both WT12.5 and WT50, there are also many genes that are only affected in DIM12.5. Both for up- and downregulated genes, there is a core set of genes shared between all TNF conditions (WT12.5, WT50 and DIM12.5). Interestingly, there are only 38 genes that are only overexpressed by TNF in WT12.5. In contrast, the WT50 and DIM12.5 groups have a large number of genes that are unique.

(C) Scatterplot of the LFC values in WT12.5 and WT50. The line represents a perfect linear relation. The empty box in the centre is due to the minimum cut-off settings, namely LFC of minimally 0.8 and p value of at least 0.05, in at least one condition. A lethal dose of TNF (WT50) behaves, at least on transcriptional level, as a magnification of a sub-lethal dose (WT12.5): most genes that are affected in WT12.5, are more affected in WT50. In addition, LFC values are more outspoken in the WT50 condition than the WT12.5 condition.

(D) Comparison of IPA pathways found in WT12.5 and WT50. Upon direct comparison of the two doses, we found 396 genes to be significantly differently regulated in WT12.5 and WT50, with 248 genes showing higher expression and 148 genes lower expression in WT50 than in WT12.5. Functional analysis of these differentially expressed genes points to involvement in inflammation related pathways including acute phase response, HMGB1 and IL-6 signaling. Pathways found in WT12.5 are also found in WT50 and usually have a better z-score. Thus IPA predicts a higher (more red) or lower (more blue) activity of a given pathway in WT50 than WT12.5.

(E) IPA pathways found in DIM12.5 compared to WT50. Both these conditions are lethal, but they show a very different response. DE genes in DIM12.5 are found by IPA analysis to be specifically enriched in “Interferon signalling” and in “Interferon Regulated Factor” and to be less enriched in “PPARa/RXRa activation”.



Supplemental Table 1: List of genes up- and downregulated in IECs of naïve GR^{dim/dim} mice. RNAseq data of IECs of naïve GR^{wt/wt} and GR^{dim/dim} mice led to the identification of 460 genes significantly upregulated in GR^{dim/dim} mice compared to GR^{wt/wt} mice and 204 genes significantly less expressed in GR^{dim/dim} compared to GR^{wt/wt} mice.

Ensgene	Symbol	WT	DIM	LFC	Pval	Links
ENSMUSG00000078922	Tgtp1	0.35±0.49	32.64±20.38	6.525	4.629e-03	pubmed
ENSMUSG00000078616	Trim30c	0.35±0.49	19.39±7.17	5.768	9.473e-03	pubmed
ENSMUSG00000035186	Ubd	104.76±33.79	4377.49±2345.41	5.385	6.045e-07	pubmed
ENSMUSG00000054072	Iigp1	6.39±2.29	231.2±166.78	5.176	9.682e-04	pubmed
ENSMUSG00000032068	Plet1	8.47±5.31	292.2±298.68	5.108	7.273e-03	pubmed
ENSMUSG00000074607	Tox2	0.35±0.49	12.23±9.15	5.104	3.310e-02	pubmed
ENSMUSG00000097804	Gm16685	0.72±0.51	21.84±17.11	4.931	1.113e-03	pubmed
ENSMUSG00000026770	Il2ra	0.36±0.51	10.86±2.42	4.926	2.050e-02	pubmed
ENSMUSG00000083178	Gm12187	0.35±0.5	9.39±5.73	4.727	4.102e-02	pubmed
ENSMUSG00000031089	Slc6a14	50.01±32	1276.39±1040.79	4.674	1.790e-04	pubmed
ENSMUSG00000078921	Tgtp2	2.84±2.51	65.4±39.99	4.523	3.486e-05	pubmed
ENSMUSG00000033508	Asprv1	2.49±1.01	55.75±53.75	4.484	3.589e-04	pubmed
ENSMUSG00000048852	Gm12185	1.07±0.89	23.21±12.64	4.442	4.084e-03	pubmed
ENSMUSG00000016496	Cd274	38.95±12.97	795.25±558.04	4.351	4.609e-06	pubmed
ENSMUSG00000074115	Saa1	37.16±13.79	741.1±499.95	4.318	2.285e-04	pubmed
ENSMUSG00000024669	Cd5	6.73±1.92	129.67±52.28	4.266	2.041e-04	pubmed
ENSMUSG00000078853	Igtp	132.01±51.72	2333.55±1134.13	4.144	1.152e-04	pubmed
ENSMUSG00000024670	Cd6	9.22±3.42	162.85±71.74	4.141	1.946e-05	pubmed
ENSMUSG00000076462	Trbv2	1.06±0.86	17.29±8.12	4.022	9.849e-03	pubmed
ENSMUSG00000070427	Il18bp	44.49±5.65	708.42±395.61	3.993	5.731e-05	pubmed
ENSMUSG00000074151	Nlrc5	18.77±7.54	297.7±105.83	3.986	1.063e-07	pubmed
ENSMUSG00000076614	Ighg1	1.44±1.36	21.52±13.51	3.915	4.415e-03	pubmed
ENSMUSG00000068606	Gm4841	0.71±0.5	10.67±7.32	3.903	4.851e-02	pubmed
ENSMUSG00000034438	Gbp8	20.16±8.79	294.86±189.47	3.868	2.783e-08	pubmed
ENSMUSG00000079363	Gbp4	9.22±2.39	132.23±100.48	3.840	2.690e-06	pubmed
ENSMUSG00000079227	Ccr5	3.54±2.15	50.12±18.58	3.821	4.239e-03	pubmed
ENSMUSG00000042385	Gzmk	0.7±0.99	9.86±3.76	3.796	3.917e-02	pubmed
ENSMUSG00000027514	Zbp1	104.02±20.45	1424.06±569.26	3.775	4.077e-07	pubmed
ENSMUSG00000032496	Ltf	2.49±0.5	33.34±10.91	3.744	6.892e-03	pubmed
ENSMUSG00000029417	Cxcl9	10.95±5.49	143.7±82.57	3.712	2.627e-04	pubmed
ENSMUSG00000054169	Ceacam10	45.26±11.02	576.92±238.88	3.672	3.061e-05	pubmed
ENSMUSG00000104713	Gbp6	20.47±11.59	259.79±134.45	3.665	2.747e-03	pubmed
ENSMUSG00000076613	Ighg2b	5.32±2.56	64.81±30.75	3.606	4.233e-03	pubmed
ENSMUSG00000053044	Cd8b1	4.97±1.29	58.12±13.43	3.547	5.125e-04	pubmed
ENSMUSG00000082292	Gm12250	32.31±10.23	376.16±168.98	3.541	1.293e-03	pubmed
ENSMUSG00000060550	H2-Q7	18.79±3.68	215.5±69.21	3.518	6.973e-10	pubmed
ENSMUSG00000023274	Cd4	7.16±3.42	81.81±38.63	3.518	5.081e-04	pubmed
ENSMUSG00000029409	U90926	1.06±0.86	11.76±4.58	3.461	9.596e-03	pubmed
ENSMUSG00000030742	Lat	10.59±5.96	115.93±34.26	3.449	1.647e-05	pubmed
ENSMUSG00000079445	B3gnt7	189.67±36.62	2055.95±1719.71	3.438	2.369e-05	pubmed
ENSMUSG00000052374	Actn2	2.8±3.24	27.63±8.92	3.290	1.277e-02	pubmed
ENSMUSG00000024863	Mbl2	6.03±3.01	55.56±26.78	3.205	2.898e-03	pubmed
ENSMUSG00000096751	Gm28373	2.85±2.01	25.94±17.04	3.184	5.996e-03	pubmed
ENSMUSG00000068252	Apol7b	1.78±0.51	16.17±8.41	3.181	1.776e-02	pubmed

Ensgene	Symbol	WT	DIM	LFC	Pval	Links
ENSMUSG00000040253	Gbp7	44.93±18.82	400.98±218.14	3.157	2.008e-03	pubmed
ENSMUSG00000030775	Trat1	1.78±0.51	15.81±4.87	3.148	1.235e-02	pubmed
ENSMUSG00000042345	Ubash3a	2.1±2.27	18.76±8.15	3.140	1.281e-02	pubmed
ENSMUSG00000033470	Cysltr2	1.43±1.33	12.41±7.09	3.122	1.355e-02	pubmed
ENSMUSG00000076463	Trbv3	3.2±1.5	27.76±8.29	3.115	6.522e-03	pubmed
ENSMUSG00000028037	Ifi44	7.41±3.91	64.34±26.02	3.113	2.618e-04	pubmed
ENSMUSG00000034271	Jdp2	32.59±9.33	281.2±178.21	3.108	5.289e-08	pubmed
ENSMUSG00000026068	Il18rap	1.05±0.86	8.57±4.05	3.027	3.012e-02	pubmed
ENSMUSG00000069874	Irgm2	301.21±101.2	2361.58±1063.99	2.971	8.110e-04	pubmed
ENSMUSG00000079339	Ifit1b1	288.79±37.25	2260.88±1048.01	2.969	1.275e-04	pubmed
ENSMUSG00000045932	Ifit2	49.01±5.84	379.99±188.35	2.955	7.420e-03	pubmed
ENSMUSG00000040328	Olfir56	7.07±2.97	53.93±35.49	2.927	1.539e-03	pubmed
ENSMUSG00000068349	Gml	1.76±1.78	13.32±7	2.901	1.963e-02	pubmed
ENSMUSG00000100150	Gm19585	2.48±0.47	18.37±6.53	2.884	5.722e-03	pubmed
ENSMUSG00000075602	Ly6a	69.98±5.85	508.88±275.9	2.862	2.158e-03	pubmed
ENSMUSG00000040229	Gpr34	6.76±2.52	48.82±13.59	2.852	8.140e-04	pubmed
ENSMUSG00000030156	Cd69	6.05±0.52	43.13±23.29	2.831	8.550e-05	pubmed
ENSMUSG00000034634	Ly6d	2.86±1.37	20.23±8.87	2.821	1.653e-02	pubmed
ENSMUSG00000017652	Cd40	1.07±0.87	7.35±3.26	2.809	3.931e-02	pubmed
ENSMUSG00000042351	Grp2	8.86±2.69	61.77±17.74	2.800	1.441e-05	pubmed
ENSMUSG00000074445	Sprrr2a3	255.21±21.55	1760.61±848.52	2.786	3.375e-03	pubmed
ENSMUSG00000027225	Duoxa2	84.88±19.86	584.97±298.77	2.785	4.116e-07	pubmed
ENSMUSG00000028270	Gbp2	43.74±31.44	297.94±227.61	2.767	1.178e-02	pubmed
ENSMUSG00000018930	Ccl4	6±3.57	40.51±20.91	2.752	3.838e-02	pubmed
ENSMUSG00000008496	Pou2f2	2.47±1.97	16.63±6.66	2.745	4.495e-02	pubmed
ENSMUSG00000015437	Gzmb	212.7±61.51	1390.85±675.1	2.709	8.002e-04	pubmed
ENSMUSG00000049103	Ccr2	4.27±0.91	27.87±5.28	2.706	1.693e-02	pubmed
ENSMUSG00000030830	Itgal	13.12±3.35	84.11±17.96	2.680	7.554e-05	pubmed
ENSMUSG00000024399	Ltb	11.7±3.91	75.21±46.62	2.680	1.348e-05	pubmed
ENSMUSG00000021298	Gpr132	3.53±2.74	22.46±8.12	2.665	3.216e-02	pubmed
ENSMUSG00000073008	Gpr174	3.2±2.3	20.25±3.6	2.661	1.368e-02	pubmed
ENSMUSG00000078664	Sprrr2a1	4.64±2.26	29.13±8.13	2.648	4.238e-03	pubmed
ENSMUSG00000078920	Ifi47	312.08±70.49	1948.56±844.31	2.642	1.291e-06	pubmed
ENSMUSG00000049109	Themis	7.81±1.22	47.95±23.17	2.617	6.284e-03	pubmed
ENSMUSG00000074758	Gm5535	2.15±1.77	13.13±9.36	2.614	3.601e-02	pubmed
ENSMUSG00000072620	Sifn2	34.9±6.87	210.78±82.21	2.594	4.077e-07	pubmed
ENSMUSG00000004668	Abca13	8.18±0.53	48.85±8.72	2.579	1.160e-06	pubmed
ENSMUSG00000022876	Samsn1	3.91±0.46	23.31±8.89	2.570	5.509e-03	pubmed
ENSMUSG00000037337	Map4k1	10.62±5.29	62.65±19.37	2.557	5.081e-04	pubmed
ENSMUSG00000031101	Sash3	27.67±4.85	158.91±44	2.521	8.550e-05	pubmed
ENSMUSG00000070031	Sp140	17.7±6.37	101.36±38.44	2.516	8.110e-04	pubmed
ENSMUSG00000020407	Upp1	2907.93±588.56	16461.99±6019.16	2.501	1.586e-07	pubmed
ENSMUSG00000071716	Apol7e	3.52±2.74	19.78±5.83	2.480	1.767e-02	pubmed
ENSMUSG00000027074	Slc43a3	10.28±3.17	57.3±29.53	2.475	1.031e-03	pubmed

Ensgene	Symbol	WT	DIM	LFC	Pval	Links
ENSMUSG00000078763	Slfn1	2.1±2.27	11.88±3.7	2.472	1.699e-02	pubmed
ENSMUSG00000064109	Hcst	4.25±2.57	23.52±2.53	2.462	2.847e-03	pubmed
ENSMUSG00000034028	Cd226	10.65±1.6	58.09±20.6	2.446	6.736e-03	pubmed
ENSMUSG00000029359	Tesc	5.68±1.27	30.95±7.83	2.442	1.927e-03	pubmed
ENSMUSG00000029603	Dtx1	26.62±4.2	144.5±49.43	2.439	4.451e-04	pubmed
ENSMUSG00000028268	Gbp3	8.53±1.68	46.26±10.19	2.439	1.169e-02	pubmed
ENSMUSG00000050600	Zfp831	6.72±3.53	36.31±7.77	2.428	8.109e-03	pubmed
ENSMUSG00000105504	Gbp5	3.18±1.46	17.17±2.72	2.422	5.109e-03	pubmed
ENSMUSG00000030921	Trim30a	21.52±12.44	114.96±55.27	2.415	1.882e-02	pubmed
ENSMUSG00000039316	Rftn1	13.13±3.81	69.94±27.14	2.411	2.078e-04	pubmed
ENSMUSG00000038037	Socs1	34.54±4.05	183.35±89.21	2.409	1.790e-04	pubmed
ENSMUSG00000024677	Ms4a6b	10.63±3.66	56.33±18.73	2.402	4.557e-03	pubmed
ENSMUSG00000034786	Gpsm3	5.68±1.31	29.8±5.81	2.387	1.057e-02	pubmed
ENSMUSG00000045991	Onecut2	2.49±0.5	12.94±4.03	2.379	2.377e-02	pubmed
ENSMUSG00000037202	Prfl	4.62±0.5	24.04±7.79	2.375	7.884e-03	pubmed
ENSMUSG00000052212	Cd177	54.24±14.56	281.04±126.12	2.374	1.918e-02	pubmed
ENSMUSG00000038843	Gent1	21.61±8.6	111.23±54.08	2.361	5.081e-04	pubmed
ENSMUSG00000087150	BC064078	8.88±2.11	45.35±4.79	2.353	8.110e-04	pubmed
ENSMUSG00000026581	Sell	3.22±1.53	16.33±9.09	2.345	3.095e-02	pubmed
ENSMUSG00000032322	Pstpip1	5.66±2.11	28.85±9.04	2.343	4.451e-04	pubmed
ENSMUSG00000033579	Fa2h	11.77±8.3	59.44±28.63	2.335	1.178e-02	pubmed
ENSMUSG00000058163	Gm5431	114.29±39.52	575.6±234.16	2.332	3.721e-03	pubmed
ENSMUSG00000029121	Crmp1	4.26±0.84	21.46±6.84	2.332	2.332e-02	pubmed
ENSMUSG00000022512	Cldn1	1.77±0.49	9.05±2.59	2.331	3.362e-02	pubmed
ENSMUSG00000022439	Parvg	11.32±6.25	57.09±19.2	2.330	3.234e-04	pubmed
ENSMUSG00000005465	Il27ra	9.9±3.79	49.38±19.58	2.315	1.282e-03	pubmed
ENSMUSG00000009687	Fxyd5	17.46±3.06	86.92±22.8	2.315	1.123e-03	pubmed
ENSMUSG00000076498	Trbc2	32.95±12.57	163.75±79	2.312	4.039e-03	pubmed
ENSMUSG00000024300	Myo1f	16.32±3.31	80.94±13.89	2.309	1.739e-03	pubmed
ENSMUSG00000002458	Rgs19	3.9±2.16	19.21±6.45	2.299	1.418e-03	pubmed
ENSMUSG00000051457	Spn	36.5±13.03	178.99±58.45	2.293	6.402e-03	pubmed
ENSMUSG00000048521	Cxcr6	23.69±12.24	115.88±37.64	2.288	1.762e-03	pubmed
ENSMUSG00000020437	Myo1g	13.44±5.06	65.66±14.75	2.286	7.869e-04	pubmed
ENSMUSG00000021384	Susd3	4.22±3.1	20.75±4.47	2.285	1.121e-02	pubmed
ENSMUSG00000056145	AI504432	8.86±2.67	43±5.18	2.279	2.995e-02	pubmed
ENSMUSG00000043263	Pyhin1	2.84±1.31	13.73±3.96	2.278	2.122e-02	pubmed
ENSMUSG00000031506	Ptpn7	8.53±3.1	41.33±22.66	2.275	1.447e-02	pubmed
ENSMUSG00000032281	Acsbg1	7.07±4.01	34.48±10.9	2.274	4.451e-04	pubmed
ENSMUSG00000000682	Cd52	36.88±8.82	178.07±43.67	2.270	2.199e-04	pubmed
ENSMUSG00000001281	Itgb7	40.48±4.31	193.51±83.6	2.257	1.760e-02	pubmed
ENSMUSG00000070034	Sp110	11.67±5.19	55.91±19.23	2.256	9.295e-04	pubmed
ENSMUSG00000064043	Trerfl	8.52±1.42	40.71±15.53	2.255	4.493e-03	pubmed
ENSMUSG00000032946	Rasgrp2	2.84±1.31	13.61±6.12	2.249	3.256e-02	pubmed
ENSMUSG00000060675	Pla2g16	244.02±7.4	1155.21±492.49	2.243	4.080e-06	pubmed

Ensgene	Symbol	WT	DIM	LFC	Pval	Links
ENSMUSG00000018008	Cyth4	20.49±12.28	96.95±28.25	2.239	1.045e-03	pubmed
ENSMUSG00000044906	4930503L19Rik	5.68±1.27	26.83±4.12	2.233	7.196e-04	pubmed
ENSMUSG00000029120	Ppp2r2c	7.8±1.91	36.28±15.38	2.214	1.494e-02	pubmed
ENSMUSG00000030745	Il21r	15.91±7.35	73.78±30.91	2.209	2.661e-03	pubmed
ENSMUSG00000039997	Ifi203	6.38±1.66	29.59±10.35	2.209	1.492e-02	pubmed
ENSMUSG00000039153	Runx2	5.32±1.46	24.58±9.58	2.206	3.370e-02	pubmed
ENSMUSG00000043953	Ccrl2	8.87±1.9	41.07±28.3	2.205	2.229e-03	pubmed
ENSMUSG00000045826	Ptprcap	16.31±3.7	75.08±22.8	2.201	1.368e-02	pubmed
ENSMUSG00000018654	Ikzf1	27.97±9.99	128.3±42.24	2.196	2.579e-03	pubmed
ENSMUSG00000038179	Slamf7	10.64±3.87	48.58±8.14	2.189	4.212e-03	pubmed
ENSMUSG00000028071	Sh2d2a	14.54±3.83	66.35±23.06	2.187	2.345e-03	pubmed
ENSMUSG00000026811	St6galnac6	134.27±45.89	609.42±225.34	2.183	1.256e-04	pubmed
ENSMUSG00000001444	Tbx21	5.34±0.92	24.11±5.78	2.174	2.162e-03	pubmed
ENSMUSG00000071715	Ncf4	7.47±0.91	33.48±13.79	2.165	3.481e-04	pubmed
ENSMUSG00000032021	Crtam	5.68±0.94	25.6±11.28	2.165	1.146e-02	pubmed
ENSMUSG00000026358	Rgs1	21.63±5.63	96.92±27.75	2.161	5.657e-05	pubmed
ENSMUSG00000076754	Trgv2	18.79±5.37	83.8±24.27	2.155	3.801e-03	pubmed
ENSMUSG00000030707	Coro1a	88.68±19.73	393.16±124.57	2.148	7.909e-04	pubmed
ENSMUSG00000049866	Arl4c	11.74±4.54	52.06±17.87	2.146	1.746e-03	pubmed
ENSMUSG00000002699	Lep2	24.83±4.77	109.95±36.81	2.144	5.323e-05	pubmed
ENSMUSG00000028931	Kcnab2	11.68±6.97	51.71±18.71	2.142	4.233e-03	pubmed
ENSMUSG00000043004	Gng2	24.8±10.21	109.33±24.87	2.136	6.871e-06	pubmed
ENSMUSG00000024065	Ehd3	5.7±1.4	24.96±5.83	2.127	2.158e-03	pubmed
ENSMUSG00000034266	Batf	3.19±2.57	13.94±5.32	2.124	3.236e-02	pubmed
ENSMUSG00000025817	Nudt5	366.33±21.29	1596.14±984.1	2.123	1.693e-02	pubmed
ENSMUSG00000022055	Nefl	3.53±2.14	15.47±5.49	2.120	4.283e-02	pubmed
ENSMUSG00000030107	Usp18	39.52±23.74	171.87±79.8	2.119	9.088e-03	pubmed
ENSMUSG00000040247	Tbc1d10c	21.33±3.09	92.7±21.73	2.118	1.256e-04	pubmed
ENSMUSG00000073409	H2-Q6	47.16±13.59	204.51±58.82	2.116	4.809e-04	pubmed
ENSMUSG00000028581	Laptn5	62.06±24.36	267.22±91.57	2.106	2.648e-03	pubmed
ENSMUSG00000029204	Rhoh	8.89±1.79	38.15±18.25	2.095	2.598e-03	pubmed
ENSMUSG00000032011	Thy1	35.82±8.11	152.68±39.06	2.091	1.631e-03	pubmed
ENSMUSG00000055148	Klf2	2.82±2.61	12.13±1.59	2.090	4.000e-02	pubmed
ENSMUSG00000079563	Pglyrp2	7.1±1.73	30.29±12.79	2.089	3.555e-03	pubmed
ENSMUSG00000055805	Fmnl1	19.79±9.26	83.8±37.25	2.079	6.864e-03	pubmed
ENSMUSG00000022831	Hcls1	24.46±8.08	103.27±33.82	2.076	4.155e-03	pubmed
ENSMUSG00000013653	1810065E05Rik	436.56±123.27	1834.89±580.79	2.072	1.167e-03	pubmed
ENSMUSG00000047415	Gpr68	9.6±0.81	40.41±7.68	2.071	4.123e-03	pubmed
ENSMUSG00000035697	Hmha1	32.27±11.54	135.69±40.68	2.070	4.936e-04	pubmed
ENSMUSG00000020340	Cyfip2	24.75±10.14	103.83±28.89	2.066	8.165e-04	pubmed
ENSMUSG00000022148	Fyb	19.81±7.8	82.91±36.35	2.062	1.196e-03	pubmed
ENSMUSG00000047867	Gimap6	45.3±16.27	189.14±58.75	2.059	3.900e-05	pubmed
ENSMUSG00000015355	Cd48	23.68±11.53	98.5±34.46	2.054	1.686e-02	pubmed
ENSMUSG00000031133	Arhgef6	14.91±5.1	61.97±19.87	2.054	6.203e-03	pubmed

Ensgene	Symbol	WT	DIM	LFC	Pval	Links
ENSMUSG00000037321	Tap1	617.04±74.16	2555.9±534.59	2.050	9.534e-05	pubmed
ENSMUSG00000098112	Bin2	13.81±3.82	57.17±17.92	2.046	1.171e-02	pubmed
ENSMUSG00000064023	Klk8	3.88±2.15	16.17±4.32	2.043	3.043e-02	pubmed
ENSMUSG00000018341	Il12rb2	5.33±0.07	21.89±9.5	2.041	7.157e-03	pubmed
ENSMUSG00000004612	Nkg7	64.82±21.73	265.51±99.88	2.033	2.625e-03	pubmed
ENSMUSG00000030220	Arhgdib	51.45±10.47	208.83±64.7	2.020	8.179e-04	pubmed
ENSMUSG00000076752	Terg-C2	76.39±33.27	309.62±113.05	2.018	6.448e-03	pubmed
ENSMUSG00000023132	Gzma	400.99±183.41	1623.45±637.76	2.017	1.467e-02	pubmed
ENSMUSG00000022372	Sla	21.29±4.41	86.21±30.45	2.016	1.066e-03	pubmed
ENSMUSG00000022657	Cd96	42.88±12.01	173.07±64.98	2.011	1.646e-03	pubmed
ENSMUSG00000036833	Pnpla7	44.45±8.58	179.31±104.05	2.011	3.158e-04	pubmed
ENSMUSG00000026117	Zap70	18.05±9.78	72.5±14.73	2.003	7.513e-03	pubmed
ENSMUSG00000035042	Ccl5	394.89±162.28	1581.4±562.91	2.002	2.802e-02	pubmed
ENSMUSG00000031551	Ido1	555.89±103.57	2224.45±948.32	2.000	1.829e-06	pubmed
ENSMUSG00000076928	Trac	27.72±1.36	110.69±31.12	1.997	6.658e-04	pubmed
ENSMUSG00000070000	Fcho1	6.74±2.13	26.99±11.34	1.996	1.961e-02	pubmed
ENSMUSG00000029530	Ccr9	35.04±12.67	139.67±42.92	1.994	1.041e-02	pubmed
ENSMUSG00000038147	Cd84	8.09±6.95	32.35±7.03	1.990	5.148e-03	pubmed
ENSMUSG00000000486	Sept1	31.82±14.18	126.5±32.32	1.988	4.863e-04	pubmed
ENSMUSG00000070691	Runx3	13.47±4.79	53.55±21.26	1.987	9.926e-03	pubmed
ENSMUSG00000026875	Traf1	6.76±2.52	26.82±12.29	1.980	3.509e-03	pubmed
ENSMUSG00000027068	Dhrs9	193.19±12.1	762.52±357.52	1.980	5.986e-05	pubmed
ENSMUSG00000046808	Atp10d	8.47±5.89	33.42±14.29	1.975	1.449e-02	pubmed
ENSMUSG00000021886	Gpr65	5.66±3.5	22.35±8.31	1.974	1.823e-02	pubmed
ENSMUSG00000026104	Stat1	210.3±14.57	825.05±212.29	1.972	7.061e-05	pubmed
ENSMUSG00000039936	Pik3cd	30.15±6.19	118.39±40.1	1.971	3.627e-04	pubmed
ENSMUSG00000024696	Lpxn	18.09±3.62	71.02±20.58	1.970	4.610e-04	pubmed
ENSMUSG00000029798	Herc6	171.63±67.16	671.16±200.15	1.967	1.303e-02	pubmed
ENSMUSG00000000409	Lck	82.18±23.56	320.51±91.62	1.962	1.884e-04	pubmed
ENSMUSG00000000817	Fasf	8.83±6.62	34.65±12.17	1.961	5.620e-03	pubmed
ENSMUSG00000075033	Nxpe3	7.47±1.52	29.08±9.29	1.961	2.335e-02	pubmed
ENSMUSG00000052142	Rasal3	15.6±3.3	60.72±12.84	1.956	8.493e-04	pubmed
ENSMUSG00000016087	Fli1	7.81±1.22	30.2±10.1	1.951	5.582e-03	pubmed
ENSMUSG00000040978	Gm11992	40.8±6.85	157.45±89.6	1.947	1.325e-02	pubmed
ENSMUSG00000061577	Adgrg5	9.53±5.94	36.85±8.93	1.946	2.993e-02	pubmed
ENSMUSG00000050350	Gpr18	20.58±3.35	79.37±25.35	1.944	4.629e-03	pubmed
ENSMUSG00000051735	Rinl	21.6±9.42	82.76±20.14	1.936	1.513e-02	pubmed
ENSMUSG00000068129	Cst7	15.92±8.17	60.96±18.16	1.933	1.467e-02	pubmed
ENSMUSG00000018819	Lsp1	40.4±12.27	154.05±50.67	1.929	1.144e-03	pubmed
ENSMUSG00000097632	4930552P12Rik	8.49±5.31	32.39±16.81	1.927	3.949e-02	pubmed
ENSMUSG00000091694	Apol11b	55.71±9.15	211.08±18.7	1.922	3.851e-03	pubmed
ENSMUSG00000055541	Lair1	3.92±1.06	14.75±3.31	1.917	2.561e-02	pubmed
ENSMUSG00000011256	Adam19	22.01±2.76	83.12±22.52	1.917	5.250e-03	pubmed
ENSMUSG00000048163	Selplg	27.98±9.2	105.8±34.3	1.916	1.480e-03	pubmed

Ensgene	Symbol	WT	DIM	LFC	Pval	Links
ENSMUSG00000005763	Cd247	13.44±5.6	50.51±12.39	1.908	9.039e-03	pubmed
ENSMUSG00000036067	Slc2a6	4.24±1.69	16.17±8.41	1.908	1.034e-02	pubmed
ENSMUSG00000026395	Ptprc	120.19±28.83	446.06±99.9	1.892	1.739e-03	pubmed
ENSMUSG00000037139	Myom3	32.66±4.78	120.71±44.12	1.884	6.625e-04	pubmed
ENSMUSG00000036322	H2-Ea-ps	18.71±9.95	68.97±1.5	1.880	3.838e-02	pubmed
ENSMUSG00000032093	Cd3e	73.36±18.38	270.15±85.6	1.880	5.473e-03	pubmed
ENSMUSG00000026737	Pip4k2a	18.8±7.67	69.32±13.21	1.880	3.070e-03	pubmed
ENSMUSG00000025422	Agap2	11.37±4.77	41.85±8.16	1.877	2.337e-03	pubmed
ENSMUSG00000058099	Nfam1	6.44±3.13	23.38±9.05	1.876	1.107e-02	pubmed
ENSMUSG00000069892	9930111J21Rik2	14.13±6.84	51.99±11.37	1.874	2.446e-03	pubmed
ENSMUSG00000000628	Hk2	301.81±48.73	1101.81±518.93	1.868	5.081e-04	pubmed
ENSMUSG00000033220	Rac2	82.23±22.07	299.54±86.11	1.864	3.762e-03	pubmed
ENSMUSG00000096727	Psemb9	530.28±77.81	1929.69±370.01	1.863	9.093e-06	pubmed
ENSMUSG00000030336	Cd27	6.03±3.01	21.97±8.17	1.858	4.193e-02	pubmed
ENSMUSG00000038304	Cd160	40.09±8.81	145.27±34.55	1.856	4.936e-04	pubmed
ENSMUSG00000043931	Gimap7	37.54±12.85	135.75±42.5	1.853	1.479e-02	pubmed
ENSMUSG00000020077	Srgn	59.89±21.12	215.82±78.2	1.848	1.519e-03	pubmed
ENSMUSG00000018168	Ikzf3	56.37±16.76	202.96±67.55	1.847	4.180e-03	pubmed
ENSMUSG00000027009	Itga4	13.83±2.42	49.87±15.67	1.846	1.627e-03	pubmed
ENSMUSG00000015981	Stk32c	9.57±2.89	34.51±13.37	1.843	5.849e-03	pubmed
ENSMUSG00000040747	Cd53	28±6.65	99.82±37.02	1.832	3.406e-03	pubmed
ENSMUSG00000021200	Asb2	39.39±7.05	139.96±37.33	1.828	3.200e-03	pubmed
ENSMUSG00000053977	Cd8a	185.63±55.31	658.88±195.1	1.827	8.179e-04	pubmed
ENSMUSG00000029762	Akr1b8	18.52±2.27	65.21±16.26	1.820	6.183e-05	pubmed
ENSMUSG00000081769	Gm12216	15.98±3.38	55.72±15.9	1.798	1.194e-03	pubmed
ENSMUSG00000043099	Hic1	22.41±1.57	77.75±30	1.793	5.008e-03	pubmed
ENSMUSG00000026288	Inpp5d	22.27±12.48	76.35±17.48	1.774	6.644e-03	pubmed
ENSMUSG00000031304	Il2rg	12.05±2.89	41.36±12.61	1.773	4.039e-03	pubmed
ENSMUSG00000040415	Dtx3	5.31±2.23	18.12±2.75	1.762	1.046e-02	pubmed
ENSMUSG00000026786	Apbb1ip	16.3±4.81	55.44±14.6	1.762	3.576e-03	pubmed
ENSMUSG00000030047	Arhgap25	8.52±1.4	28.95±4.32	1.761	4.391e-03	pubmed
ENSMUSG00000029468	P2rx7	32.92±10.88	111.32±28.44	1.757	1.349e-02	pubmed
ENSMUSG00000020143	Dock2	25.16±10.07	85.09±21.72	1.756	3.003e-03	pubmed
ENSMUSG00000032470	Mras	10.27±3.88	34.71±15.08	1.753	4.628e-02	pubmed
ENSMUSG00000048865	Arhgap30	36.49±11.37	123.02±35.57	1.752	7.672e-03	pubmed
ENSMUSG00000076490	Trbc1	20.17±7.45	68.11±15.97	1.750	9.584e-04	pubmed
ENSMUSG00000087651	1500009L16Rik	23.47±2.99	78.91±15.52	1.749	7.061e-05	pubmed
ENSMUSG00000039264	Gimap3	30.09±10.76	100.73±20.79	1.740	9.932e-04	pubmed
ENSMUSG00000021728	Emb	25.18±5.55	83.83±36.47	1.733	3.218e-02	pubmed
ENSMUSG00000019843	Fyn	48.69±2.82	161±53.61	1.725	1.447e-03	pubmed
ENSMUSG00000002033	Cd3g	133.58±46.27	441.33±122.2	1.723	4.664e-03	pubmed
ENSMUSG00000054435	Gimap4	90.72±27.95	298.89±80.07	1.719	1.418e-03	pubmed
ENSMUSG00000029298	Gbp9	17.69±8.28	58.19±22.62	1.715	2.349e-02	pubmed
ENSMUSG00000031497	Tnfsf13b	43±2.08	140.91±38.51	1.711	1.003e-03	pubmed

Ensgene	Symbol	WT	DIM	LFC	Pval	Links
ENSMUSG00000000290	Itgb2	41.87±10.06	137.11±41.83	1.711	1.368e-02	pubmed
ENSMUSG00000050982	Apol10a	2312.75±125.96	7558.5±880.61	1.708	4.343e-02	pubmed
ENSMUSG00000062939	Stat4	7.05±4.71	23.13±8.18	1.707	3.055e-02	pubmed
ENSMUSG00000041515	Irf8	782.39±81.76	2548.32±632.58	1.704	1.348e-05	pubmed
ENSMUSG00000027339	Rassf2	23.39±6.48	76.18±21.93	1.699	7.533e-04	pubmed
ENSMUSG00000076757	Tercg-C4	35.73±13.85	116.29±32.41	1.699	9.248e-04	pubmed
ENSMUSG00000032094	Cd3d	34.01±9.79	109.14±29.81	1.680	6.892e-03	pubmed
ENSMUSG00000038151	Prdm1	118.17±17.24	378.57±175.27	1.679	5.125e-04	pubmed
ENSMUSG0000004665	Cnn2	95.6±6.13	304.63±84.9	1.671	3.837e-05	pubmed
ENSMUSG0000005947	Itgae	183.78±39.62	585.31±140.78	1.671	1.420e-02	pubmed
ENSMUSG00000020395	Itk	31.42±17.65	100.19±32.46	1.671	2.839e-02	pubmed
ENSMUSG00000054720	Lrrc8c	15.64±4.41	49.82±9.65	1.668	5.176e-03	pubmed
ENSMUSG0000001588	Acap1	17.73±3.28	56.47±20.94	1.667	6.880e-03	pubmed
ENSMUSG00000087107	AI662270	14.88±5.1	47.26±11.55	1.664	6.217e-03	pubmed
ENSMUSG00000040710	St8sia4	24.34±14.54	77.2±18.41	1.662	3.362e-02	pubmed
ENSMUSG00000040723	Rcsd1	15.6±4.35	49.31±14.52	1.659	1.178e-02	pubmed
ENSMUSG00000060586	H2-Eb1	165.49±94.72	522.23±71.62	1.657	2.595e-02	pubmed
ENSMUSG0000002257	Def6	15.61±5.96	49.32±14.12	1.657	8.102e-03	pubmed
ENSMUSG00000037548	H2-DMb2	207.57±83.85	654.89±105.22	1.657	3.971e-03	pubmed
ENSMUSG00000016206	H2-M3	29.13±1.8	91.55±14.23	1.651	1.647e-05	pubmed
ENSMUSG00000037754	Ppp1r16b	24.18±3.58	76.05±19.34	1.650	6.390e-04	pubmed
ENSMUSG00000024338	Psmb8	1170.96±180.35	3672.4±564.45	1.649	5.106e-06	pubmed
ENSMUSG00000031207	Msn	68.93±32.55	215.89±68.23	1.646	6.857e-03	pubmed
ENSMUSG00000026778	Prkcq	7.84±1.42	24.46±3.89	1.646	3.701e-02	pubmed
ENSMUSG00000035104	Eva1a	13.52±4.12	42.2±13.55	1.646	2.117e-03	pubmed
ENSMUSG00000034595	Ppp1r18	31.92±7.16	99.47±17.02	1.639	1.760e-02	pubmed
ENSMUSG00000027636	Sla2	13.82±3.64	43±12.33	1.632	1.009e-02	pubmed
ENSMUSG00000040699	Limd2	42.13±13.42	130.87±46.82	1.631	2.820e-04	pubmed
ENSMUSG00000068452	Duox2	538.38±255.23	1665.23±644.19	1.629	1.882e-02	pubmed
ENSMUSG00000004837	Grap	11.73±2.27	36.2±11.92	1.621	4.339e-03	pubmed
ENSMUSG00000030124	Lag3	19.2±3.09	58.99±21.27	1.618	4.601e-02	pubmed
ENSMUSG00000027347	Rasgrp1	27.25±10.49	83.41±15.32	1.612	1.531e-02	pubmed
ENSMUSG00000031165	Was	13.43±6.46	41.1±9.14	1.609	2.089e-02	pubmed
ENSMUSG00000050921	P2ry10	13.08±6.4	40.18±13.54	1.609	4.414e-03	pubmed
ENSMUSG00000056749	Nfil3	57.08±14.25	172.81±23.13	1.599	1.767e-04	pubmed
ENSMUSG00000092517	Art2a-ps	57.91±12.65	175.35±64.9	1.598	7.397e-03	pubmed
ENSMUSG00000017765	Slc12a4	5.33±2.29	16.15±2.84	1.597	2.287e-02	pubmed
ENSMUSG00000025165	Sectm1a	125.2±34.87	378.33±150.96	1.595	2.296e-02	pubmed
ENSMUSG00000038608	Dock10	38.29±15.84	115.73±33.41	1.594	7.212e-03	pubmed
ENSMUSG00000006179	Prss16	8.93±2.94	26.49±9.28	1.574	1.256e-02	pubmed
ENSMUSG00000021108	Prkch	71.8±30.7	213.91±76.95	1.573	5.800e-03	pubmed
ENSMUSG00000032050	Rdx	28.39±9.34	84.53±23.02	1.572	5.078e-03	pubmed
ENSMUSG00000056737	Capg	64.85±13.13	192.3±55	1.569	4.876e-04	pubmed
ENSMUSG00000097006	9530082P21Rik	62.53±10.98	184.81±82.71	1.562	3.308e-03	pubmed

Ensgene	Symbol	WT	DIM	LFC	Pval	Links
ENSMUSG00000049871	Nlrc3	15.93±5.26	47.09±12.08	1.560	2.258e-02	pubmed
ENSMUSG00000050359	Sprr1a	19.16±6.49	56.33±38.43	1.550	3.797e-02	pubmed
ENSMUSG00000036594	H2-Aa	2965.93±1635.99	8655.26±1606.76	1.545	4.882e-02	pubmed
ENSMUSG00000046879	Irgm1	453.29±5.67	1321.2±442.87	1.543	8.310e-03	pubmed
ENSMUSG00000032238	Rora	19.52±6.36	57.01±16.41	1.542	6.522e-03	pubmed
ENSMUSG00000020912	Krt12	16.68±3.48	48.73±11.89	1.538	2.142e-03	pubmed
ENSMUSG00000039699	Batf2	268.94±23.35	780.35±251.95	1.537	2.508e-03	pubmed
ENSMUSG00000040990	Sh3kbp1	25.56±3.53	74.22±18	1.537	6.658e-04	pubmed
ENSMUSG00000032184	Lysmd2	12.07±6.57	34.75±4.12	1.531	4.610e-04	pubmed
ENSMUSG00000050075	Gpr171	10.25±6.14	29.63±11.08	1.525	2.901e-02	pubmed
ENSMUSG00000033268	Duox1	14.65±6.87	41.92±13.43	1.523	9.350e-03	pubmed
ENSMUSG00000037649	H2-DMa	723.07±243.46	2073.86±360.61	1.520	7.351e-03	pubmed
ENSMUSG00000079547	H2-DMb1	335.38±151.58	958.84±162.6	1.515	1.900e-02	pubmed
ENSMUSG00000018899	Irf1	1712.47±79.95	4871.93±1091.05	1.508	3.900e-05	pubmed
ENSMUSG00000037145	2210407C18Rik	659.03±233.08	1852.28±676.44	1.491	7.172e-04	pubmed
ENSMUSG00000022488	Nckap1l	28.02±7.9	78.47±21.02	1.485	2.883e-02	pubmed
ENSMUSG00000026222	Sp100	137.91±59.47	385.67±82.45	1.483	7.884e-03	pubmed
ENSMUSG00000073102	Drc1	8.18±2.03	22.75±7.48	1.481	4.515e-02	pubmed
ENSMUSG00000063236	1110038F14Rik	105.57±13.5	294.08±81.37	1.478	2.745e-04	pubmed
ENSMUSG00000024910	Ctsw	26.94±5.76	75.22±18.82	1.476	3.636e-03	pubmed
ENSMUSG00000001741	Ii16	24.44±8.76	68.19±18.9	1.475	6.433e-03	pubmed
ENSMUSG00000024965	Fermt3	20.26±3.91	55.89±6.57	1.464	5.795e-03	pubmed
ENSMUSG00000031805	Jak3	37.96±8.06	103.78±15.94	1.450	9.682e-04	pubmed
ENSMUSG00000024610	Cd74	13832.22±6390.38	37669.33±6216.36	1.445	1.172e-02	pubmed
ENSMUSG00000027843	Ptpn22	65.33±14.76	178.14±55.41	1.444	2.618e-04	pubmed
ENSMUSG00000005267	Zfp287	7.08±2.1	19.27±6.93	1.432	4.537e-02	pubmed
ENSMUSG00000041193	Pla2g5	30.64±5.34	82.25±23.54	1.427	3.153e-02	pubmed
ENSMUSG00000073421	H2-Ab1	3302.04±1603.81	8830.44±1796.51	1.419	1.697e-02	pubmed
ENSMUSG00000039158	Akna	66.66±16.72	177.6±53.42	1.412	1.447e-03	pubmed
ENSMUSG00000025017	Pik3ap1	31.82±12.58	84.22±32.92	1.405	2.898e-02	pubmed
ENSMUSG00000040345	Arhgap9	26.55±8.35	70.38±16.39	1.402	7.688e-03	pubmed
ENSMUSG00000064267	Hvcn1	35.15±4.15	92.58±29.42	1.395	1.352e-02	pubmed
ENSMUSG00000046841	Ckap4	90.87±20.92	237.96±62.5	1.390	1.963e-02	pubmed
ENSMUSG00000089669	Tnfsf13	23.59±8.95	61.11±10.03	1.379	2.491e-03	pubmed
ENSMUSG00000027995	Tlr2	29.57±3.94	76.67±26.81	1.379	7.318e-03	pubmed
ENSMUSG00000028885	Smpdl3b	345.85±122.42	898.52±424.58	1.377	4.775e-02	pubmed
ENSMUSG00000001248	Gramd1a	25.18±5.98	65.31±26.1	1.369	6.402e-03	pubmed
ENSMUSG00000026417	Pigr	31250.58±3942.61	79655.3±5280.77	1.350	5.543e-04	pubmed
ENSMUSG00000030223	Ptpro	12.84±3.14	32.42±8.7	1.349	1.882e-02	pubmed
ENSMUSG00000049608	Gpr55	45.2±3.75	115±35.56	1.346	1.794e-02	pubmed
ENSMUSG00000012519	Mlkl	122.89±11.86	311.31±34.23	1.341	5.866e-04	pubmed
ENSMUSG00000031628	Casp3	421.48±18.41	1067.18±313.53	1.340	1.904e-05	pubmed
ENSMUSG00000044827	Tlr1	45.56±4.83	114.7±20.15	1.335	3.176e-04	pubmed
ENSMUSG00000032035	Ets1	125.36±13.82	315.58±75.68	1.331	4.116e-05	pubmed

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ENSMUSG00000057058	Skap1	25.84±9.12	65.21±20.34	1.330	2.779e-02	pubmed
ENSMUSG00000002603	Tgfb1	17.46±2.89	43.79±10.37	1.326	9.657e-03	pubmed
ENSMUSG00000001670	Tat	20.75±9.08	51.91±9.95	1.323	2.820e-02	pubmed
ENSMUSG00000022864	D16Ert472e	12.43±1.16	31.07±5.77	1.319	2.324e-02	pubmed
ENSMUSG00000060671	Atp8b2	34.74±7.89	86.45±20.47	1.313	3.200e-03	pubmed
ENSMUSG00000064262	Gimap8	39.36±10.04	97.72±25.03	1.309	2.779e-03	pubmed
ENSMUSG00000020101	4632428N05Rik	27.79±4.17	68.59±9.25	1.302	7.875e-03	pubmed
ENSMUSG00000027544	Nfatc2	16.35±2.75	40.11±7.46	1.299	5.333e-03	pubmed
ENSMUSG00000026480	Ncf2	19.94±3.17	49.09±8.57	1.297	4.480e-03	pubmed
ENSMUSG00000078485	Plekhn1	127.19±36.23	312.61±101.57	1.296	1.112e-03	pubmed
ENSMUSG00000022667	Cd200r1	20.2±5.76	49.37±20.03	1.282	4.899e-02	pubmed
ENSMUSG0000002384	Bmp8b	127.5±40.48	309.63±147.99	1.279	2.555e-02	pubmed
ENSMUSG00000024349	Tmem173	20.97±1.74	50.5±13.17	1.273	2.475e-02	pubmed
ENSMUSG00000039621	Prex1	46.85±9.34	112.85±31.82	1.266	1.235e-02	pubmed
ENSMUSG00000098557	Kctd12	214.83±5.66	514.85±178.11	1.260	1.261e-04	pubmed
ENSMUSG00000034116	Vav1	37.38±12.02	88.35±9.1	1.243	9.933e-04	pubmed
ENSMUSG00000022952	Runx1	12.08±3.45	28.65±7.38	1.242	4.048e-02	pubmed
ENSMUSG00000028525	Pde4b	20.23±3.56	47.76±12.18	1.240	1.492e-02	pubmed
ENSMUSG00000075254	Heg1	53.38±4.34	126.06±26.57	1.239	8.477e-05	pubmed
ENSMUSG00000020469	Myl7	36.25±1.24	85.46±18.75	1.239	1.442e-03	pubmed
ENSMUSG00000031972	Acta1	55.11±0.59	129.61±59.25	1.232	3.370e-02	pubmed
ENSMUSG00000021998	Lep1	245.3±11.68	576.09±138.93	1.232	5.316e-04	pubmed
ENSMUSG00000020319	Wdpcp	55±19.12	129.29±20.49	1.232	1.690e-02	pubmed
ENSMUSG00000031389	Arhgap4	35.84±5.48	83.36±16.46	1.216	4.775e-02	pubmed
ENSMUSG00000095687	Rnaset2a	46.23±1.84	106.13±19.88	1.197	3.996e-03	pubmed
ENSMUSG00000056069	Fam105a	18.14±1.05	41.5±2.46	1.196	1.677e-02	pubmed
ENSMUSG00000010601	Apol7a	855.05±287.22	1955.98±861.13	1.194	1.642e-02	pubmed
ENSMUSG00000053158	Fes	18.42±6.28	42.2±5.55	1.192	3.359e-02	pubmed
ENSMUSG00000060216	Arrb2	33.01±6.54	75.58±27.5	1.190	6.919e-03	pubmed
ENSMUSG00000079442	St6galnac4	108.64±16	247.02±62.36	1.185	1.693e-02	pubmed
ENSMUSG00000018340	Anxa6	63.22±14.76	143.64±33.02	1.184	2.799e-02	pubmed
ENSMUSG00000056917	Sipa1	42.25±8.85	95.17±15.87	1.168	2.626e-03	pubmed
ENSMUSG00000041390	Mdfc	18.44±4.05	41.51±15.4	1.163	3.652e-02	pubmed
ENSMUSG00000015950	Ncf1	27.69±5.15	62.21±13.8	1.162	1.109e-02	pubmed
ENSMUSG00000042677	Zc3h12a	580.85±128.72	1293.33±242.49	1.155	1.680e-02	pubmed
ENSMUSG00000026430	Rassf5	53.6±7.18	119.43±30.69	1.154	1.875e-02	pubmed
ENSMUSG00000025492	Ifitm3	171.59±22	378.97±104.47	1.144	1.287e-03	pubmed
ENSMUSG00000005034	Prkacb	188.64±41.39	415.14±93.54	1.137	1.093e-03	pubmed
ENSMUSG00000024371	C2	98.49±8.69	215.3±36.98	1.127	1.704e-02	pubmed
ENSMUSG00000073405	C920025E04Rik	154.78±44.28	337.88±91.67	1.124	5.736e-03	pubmed
ENSMUSG00000022272	Myo10	293.3±49.14	637.26±280.83	1.119	2.240e-03	pubmed
ENSMUSG00000050957	Insl6	164.55±5.89	357.29±67.78	1.117	2.078e-04	pubmed
ENSMUSG00000024339	Tap2	731.4±135.07	1581.08±163.57	1.112	3.070e-03	pubmed
ENSMUSG00000020120	Plek	27.71±2.69	59.53±15.28	1.101	3.730e-02	pubmed

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ENSMUSG00000033538	Casp4	543.83±53.77	1163.25±327.56	1.097	2.120e-02	pubmed
ENSMUSG00000007655	Cav1	54.58±13.22	116.27±28.97	1.093	4.253e-02	pubmed
ENSMUSG00000002107	Celf2	33.75±4.13	71.91±15.29	1.088	2.789e-02	pubmed
ENSMUSG00000025092	Hspa12a	692.5±249.66	1471.14±409.23	1.087	3.536e-02	pubmed
ENSMUSG00000037820	Tgm2	1079.87±129.51	2265.39±444.12	1.069	1.282e-02	pubmed
ENSMUSG00000024066	Xdh	3819.84±1195.12	8009.51±1881.43	1.068	1.525e-02	pubmed
ENSMUSG00000067212	H2-T23	386.03±112.5	806.45±180.65	1.062	3.713e-03	pubmed
ENSMUSG00000033467	Crlf2	31.32±9.39	64.86±15.85	1.049	1.002e-02	pubmed
ENSMUSG00000048572	Tmem252	147.3±11.06	304.8±72.07	1.048	1.046e-02	pubmed
ENSMUSG00000046157	Tmem229b	86.32±9.85	178.41±54.59	1.046	4.577e-03	pubmed
ENSMUSG00000035929	H2-Q4	1105.2±210.54	2281.45±480.86	1.045	5.443e-03	pubmed
ENSMUSG00000022587	Ly6e	993.05±195.82	2047.5±290.75	1.044	1.031e-03	pubmed
ENSMUSG00000019935	Slc17a8	97.51±26.56	200.56±40	1.040	4.067e-02	pubmed
ENSMUSG00000047810	Ccdc88b	38.2±15.76	78.52±14.1	1.035	3.843e-02	pubmed
ENSMUSG00000048376	F2r	41.53±7.02	84.97±22.88	1.032	1.680e-02	pubmed
ENSMUSG00000031897	Psmb10	1343.93±67.92	2733.32±270.24	1.024	5.657e-05	pubmed
ENSMUSG00000038305	Spats2l	314.46±68.75	638.38±223.86	1.021	2.929e-02	pubmed
ENSMUSG00000030086	Chchd6	21.38±4.25	42.6±12.16	1.009	2.092e-02	pubmed
ENSMUSG00000032640	Chsy1	35.17±2.68	70.7±17.26	1.005	2.375e-02	pubmed
ENSMUSG00000031379	Pir	28.21±9.25	55.99±19.94	1.000	4.041e-02	pubmed
ENSMUSG00000020023	Tmcc3	2114.94±205.71	4229.46±1340.69	1.000	2.965e-02	pubmed
ENSMUSG00000040430	Pitpnc1	23.47±4.58	46.64±5.23	0.989	4.537e-02	pubmed
ENSMUSG00000042228	Lyn	430.36±30	850.9±133.7	0.983	4.780e-03	pubmed
ENSMUSG00000073771	Btbd19	14.24±1.49	28.12±2.26	0.983	4.125e-02	pubmed
ENSMUSG00000040329	Il7	40.08±7.63	79.13±1.76	0.978	1.144e-03	pubmed
ENSMUSG00000068735	Trp53i11	179.68±33.99	353.19±96.87	0.977	6.892e-03	pubmed
ENSMUSG00000007987	Ift22	122.06±26.24	239.81±72.41	0.973	1.692e-02	pubmed
ENSMUSG00000036805	Noxa1	108.28±22.7	212.18±33.05	0.973	1.648e-03	pubmed
ENSMUSG00000038213	Tapbpl	747.58±50.35	1465.12±225.94	0.971	4.763e-03	pubmed
ENSMUSG00000021068	Nin	256.06±30.6	502.12±58.36	0.970	2.153e-05	pubmed
ENSMUSG00000050747	Trim15	860.68±99.02	1684.18±597.43	0.968	1.697e-02	pubmed
ENSMUSG00000020015	Cdk17	48.05±3.66	93.46±23.06	0.957	3.400e-03	pubmed
ENSMUSG00000075010	AW112010	1024.41±110.08	1987.71±526.94	0.956	2.127e-03	pubmed
ENSMUSG00000027533	Fabp5	32.36±1.15	61.84±14.78	0.937	2.752e-02	pubmed
ENSMUSG00000055116	Arntl	204.68±22.06	392.04±57.21	0.937	2.557e-02	pubmed
ENSMUSG00000079197	Psme2	2668.41±289.59	5082.71±769.57	0.930	5.126e-04	pubmed
ENSMUSG00000028599	Tnfrsf1b	91.03±26.08	173.32±40.18	0.928	2.040e-02	pubmed
ENSMUSG00000027639	Samhd1	899.41±100.57	1710.45±575.72	0.927	2.472e-02	pubmed
ENSMUSG00000079523	Tmsb10	749.75±32.76	1419.89±394.3	0.921	1.477e-02	pubmed
ENSMUSG00000057561	Eif1a	998.24±64.92	1875.8±360.98	0.910	9.093e-06	pubmed
ENSMUSG00000032440	Tgfb2	81.2±19.8	152.68±33.48	0.909	1.499e-02	pubmed
ENSMUSG00000023959	Clic5	8069.31±1558.57	15063.3±3729.73	0.900	1.848e-02	pubmed
ENSMUSG00000029923	Rab19	384.28±59.93	715.45±66.22	0.896	4.102e-02	pubmed
ENSMUSG00000024124	Prss30	2015.32±212.06	3743.68±979.71	0.893	2.851e-03	pubmed

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ENSMUSG00000073411	H2-D1	22894.71±4284	42443.79±10188.84	0.891	3.145e-04	pubmed
ENSMUSG00000031803	B3gnt3	379.77±50.36	702.63±111.26	0.888	2.417e-03	pubmed
ENSMUSG00000050379	Sept6	68.87±8.21	126.64±17.82	0.879	9.664e-03	pubmed
ENSMUSG00000029802	Abcg2	6034.42±165.36	10961.98±2671.15	0.861	6.984e-03	pubmed
ENSMUSG00000021749	Oit1	754.63±87	1367.38±189.76	0.858	2.860e-05	pubmed
ENSMUSG00000060802	B2m	22837.8±2889.81	41388.5±8814.23	0.858	5.316e-04	pubmed
ENSMUSG00000029270	Fam69a	156.05±6.9	282.06±31.46	0.853	2.746e-03	pubmed
ENSMUSG00000022769	Sdf2l1	301.69±42.45	544.49±100.2	0.852	4.084e-02	pubmed
ENSMUSG00000036908	Unc93b1	140.32±16.87	252.05±43.12	0.847	1.949e-03	pubmed
ENSMUSG00000027333	Smox	154.4±21.4	277.02±83.76	0.841	1.344e-02	pubmed
ENSMUSG00000006476	Nsmf	160.61±11.53	288.13±60.3	0.839	5.206e-05	pubmed
ENSMUSG00000025616	Usp16	600.58±58.19	1073.95±187.36	0.838	4.077e-07	pubmed
ENSMUSG00000035105	Egln3	562.42±41.95	1004.68±97.14	0.837	2.320e-02	pubmed
ENSMUSG00000048534	Amica1	113.32±13.57	202.34±46.26	0.836	3.310e-02	pubmed
ENSMUSG00000013643	Lypd8	12949.89±910.69	23104.45±4188.86	0.835	1.113e-03	pubmed
ENSMUSG00000061232	H2-K1	9195.9±1488.26	16394.49±3997.56	0.834	3.966e-03	pubmed
ENSMUSG00000000594	Gm2a	119.61±10.43	212.93±35.53	0.832	2.268e-02	pubmed
ENSMUSG00000038732	Mboat1	342.59±48.5	608.88±132.69	0.830	1.109e-02	pubmed
ENSMUSG00000028245	Nsmaf	102.7±5.34	181.79±38.63	0.823	1.746e-03	pubmed
ENSMUSG00000074715	Ccl28	850.64±111.6	1484.12±174.17	0.803	4.110e-03	pubmed
ENSMUSG00000024597	Slc12a2	2519.68±674.62	1445.03±347.46	-0.802	1.704e-02	pubmed
ENSMUSG00000018800	Abca5	95.65±16.76	54.7±13.48	-0.803	7.040e-03	pubmed
ENSMUSG00000028976	Slc2a5	694.02±138.55	395.08±62.3	-0.813	4.714e-02	pubmed
ENSMUSG00000021704	Mtx3	165.6±18.46	93.65±9.59	-0.818	2.158e-03	pubmed
ENSMUSG00000021589	Rhobtb3	182.91±18.36	103.55±12.68	-0.824	1.282e-03	pubmed
ENSMUSG00000060716	Plekhh1	1891.88±249.97	1067.44±179.6	-0.826	9.358e-03	pubmed
ENSMUSG00000051586	Mical3	176.64±9.54	99.54±16.62	-0.826	1.079e-02	pubmed
ENSMUSG00000001288	Rarg	93.99±9.37	52.93±2.97	-0.829	3.359e-02	pubmed
ENSMUSG00000074093	Svip	1061.71±71.04	596.49±98.47	-0.832	4.087e-03	pubmed
ENSMUSG00000036098	Myrf	380.22±26.27	211.49±40.89	-0.842	1.152e-04	pubmed
ENSMUSG00000091780	Sco2	71.41±4.5	40.01±7.27	-0.844	1.719e-02	pubmed
ENSMUSG00000032449	Slc25a36	1099.3±104.13	610.98±54.21	-0.847	5.062e-07	pubmed
ENSMUSG00000037370	Enpp1	93.58±4.84	51.95±6.34	-0.847	2.530e-02	pubmed
ENSMUSG00000021775	Nr1d2	1716.12±227.96	953.59±65.52	-0.848	3.450e-02	pubmed
ENSMUSG00000002222	Rmnd5a	2771.51±159.1	1535.86±230.76	-0.852	1.088e-03	pubmed
ENSMUSG00000029408	Abcb9	107.24±12.52	59.62±14.9	-0.854	1.523e-02	pubmed
ENSMUSG00000020988	L2hgdh	1130.78±129.28	623.5±104.65	-0.860	2.115e-05	pubmed
ENSMUSG00000060206	Zfp462	117.62±26.01	64.52±7.85	-0.862	1.882e-02	pubmed
ENSMUSG00000029714	Gigyf1	121.18±11.41	66.17±18.76	-0.867	2.054e-02	pubmed
ENSMUSG00000032816	Igdcc4	83.38±12.93	45.47±8.18	-0.868	4.929e-02	pubmed
ENSMUSG00000008575	Nfib	610.65±93.56	333.9±84.8	-0.868	6.658e-04	pubmed
ENSMUSG00000060579	Fhit	53.93±8.85	29.75±4.69	-0.869	2.287e-02	pubmed
ENSMUSG00000024501	Dpysl3	117.31±17.93	63.76±8.05	-0.879	3.531e-02	pubmed
ENSMUSG00000027253	Lrp4	592.91±17.05	321.34±73.25	-0.883	8.047e-03	pubmed

Ensgene	Symbol	WT	DIM	LFC	Pval	Links
ENSMUSG00000002617	Zfp40	36.24±4.11	19.73±2.64	-0.884	3.654e-02	pubmed
ENSMUSG00000041301	Cftr	2527.47±474.84	1368.8±386.09	-0.884	1.447e-03	pubmed
ENSMUSG00000061175	Fnip2	104.33±14.43	56.24±1.69	-0.891	7.869e-04	pubmed
ENSMUSG00000047730	Fcgbp	26946.6±3083.78	14530.41±1683.02	-0.891	2.078e-04	pubmed
ENSMUSG00000041794	Myrip	125.3±12.13	67.33±6.49	-0.897	2.674e-02	pubmed
ENSMUSG00000063382	Bcl9l	208.42±5.72	111.03±14.64	-0.906	2.703e-03	pubmed
ENSMUSG00000041773	Enc1	283.84±72.77	150.21±32.07	-0.920	3.785e-02	pubmed
ENSMUSG00000017418	Arl5b	804.11±89.26	423.68±21.21	-0.925	1.787e-02	pubmed
ENSMUSG00000026335	Pam	639.27±46.25	336.81±103.67	-0.926	1.746e-03	pubmed
ENSMUSG00000028003	Lrat	380.08±79.31	200.19±74.52	-0.927	3.921e-02	pubmed
ENSMUSG00000028532	Cachd1	535.39±31.7	281.26±79.76	-0.929	2.055e-02	pubmed
ENSMUSG00000038894	Irs2	317.43±12.56	165.49±36.82	-0.938	5.176e-03	pubmed
ENSMUSG00000027350	Chgb	1483.24±147.06	773.12±83.65	-0.940	1.134e-03	pubmed
ENSMUSG00000034701	Neurod1	56.87±10.98	29.63±4.61	-0.945	4.178e-02	pubmed
ENSMUSG00000052512	Nav2	115.48±19.51	59.39±23.5	-0.949	2.802e-02	pubmed
ENSMUSG00000055053	Nfic	217.22±12.07	111.64±29.66	-0.956	3.804e-03	pubmed
ENSMUSG00000025075	Habp2	187.11±57.65	95.75±40.73	-0.960	3.209e-02	pubmed
ENSMUSG00000006567	Atp7b	111.33±24.97	57.05±19.02	-0.966	3.601e-02	pubmed
ENSMUSG00000040249	Lrp1	3260.8±240.87	1646.93±400.27	-0.985	2.929e-03	pubmed
ENSMUSG00000040213	Ccbl2	85.02±7.82	42.64±3.93	-0.988	2.020e-04	pubmed
ENSMUSG00000002228	Ppm1j	35.89±4.81	18.41±8.27	-0.992	4.980e-02	pubmed
ENSMUSG00000029167	Ppargc1a	678.99±63.03	341.46±44.32	-0.992	1.389e-02	pubmed
ENSMUSG00000078776	9530053A07Rik	49.91±10.83	25.02±2.7	-0.997	2.155e-02	pubmed
ENSMUSG00000020829	Slc46a1	172.29±51.62	86.48±26.24	-0.998	2.050e-02	pubmed
ENSMUSG00000021477	Ctsl	127.8±16.66	63.72±4.13	-1.004	5.722e-03	pubmed
ENSMUSG00000064105	Cnnm2	108.96±19.59	54.28±4.21	-1.007	9.657e-03	pubmed
ENSMUSG00000022708	Zbtb20	137.06±11.57	68.17±11.8	-1.008	2.332e-02	pubmed
ENSMUSG00000061143	Maml3	139.39±10.69	68.78±13.6	-1.014	3.354e-04	pubmed
ENSMUSG00000054252	Fgfr3	240.73±32.52	119.19±14.68	-1.014	4.126e-02	pubmed
ENSMUSG00000036473	Tbc1d24	435.66±29.68	215±46.69	-1.017	6.188e-04	pubmed
ENSMUSG00000028385	Snx30	128.47±14.68	63.07±14.87	-1.028	2.801e-02	pubmed
ENSMUSG00000030691	Fchs2	883.21±53.86	432.31±49.43	-1.031	5.300e-04	pubmed
ENSMUSG00000020258	Glyctk	227.52±51.66	111.6±34.35	-1.031	1.092e-02	pubmed
ENSMUSG00000005534	Insr	1114.23±31.49	545.06±170.31	-1.032	1.154e-03	pubmed
ENSMUSG00000029130	Rnf32	170.99±4.77	83.6±17.17	-1.033	3.962e-03	pubmed
ENSMUSG00000030110	Ret	63.63±3.11	31.2±4.63	-1.034	4.439e-03	pubmed
ENSMUSG00000020140	Lgr5	168.88±43.42	81.76±27.84	-1.041	3.264e-02	pubmed
ENSMUSG00000046159	Chrm3	63.99±1.68	30.74±6.39	-1.043	1.627e-03	pubmed
ENSMUSG00000018919	Tm4sf5	1801.69±764.17	873.66±29.14	-1.044	3.218e-02	pubmed
ENSMUSG00000044453	Ffar1	28.79±2.42	14.07±4.54	-1.044	3.931e-02	pubmed
ENSMUSG00000003228	Grk5	210.16±55	102.25±37.46	-1.044	1.143e-02	pubmed
ENSMUSG00000070565	Rasal2	159.97±6.24	77.5±12.57	-1.046	8.047e-03	pubmed
ENSMUSG00000022912	Pros1	148.81±32.49	71.84±21.43	-1.053	9.598e-03	pubmed
ENSMUSG00000066595	Mfsd7b	342.07±95.59	164.31±18.56	-1.058	7.371e-04	pubmed

Ensgene	Symbol	WT	DIM	LFC	Pval	Links
ENSMUSG00000035112	Wnk4	59.13±19.33	28.2±9.68	-1.059	4.809e-02	pubmed
ENSMUSG00000032369	Plscr1	3298.24±431.41	1581.76±450.53	-1.060	2.372e-02	pubmed
ENSMUSG00000032788	Pdxk	1085.68±54.14	520.76±131.38	-1.060	2.627e-04	pubmed
ENSMUSG00000038648	Creb3l2	313±130.29	149.35±32.65	-1.066	1.089e-02	pubmed
ENSMUSG00000030424	Zfp939	105.01±11.18	50.17±15.73	-1.067	1.593e-02	pubmed
ENSMUSG00000068130	Zfp442	57.96±1.23	27.55±10.12	-1.074	3.359e-02	pubmed
ENSMUSG00000046329	Slc25a23	105.53±18.41	49.87±6.67	-1.081	3.070e-03	pubmed
ENSMUSG00000024843	Chka	889.14±170.24	419.65±65.47	-1.083	5.986e-05	pubmed
ENSMUSG00000031626	Sorbs2	88.89±25.36	41.73±12.07	-1.083	3.349e-02	pubmed
ENSMUSG00000024747	Aldh1a7	428.34±63.04	202.23±25.85	-1.083	4.778e-02	pubmed
ENSMUSG00000019838	Slc16a10	2160.75±595.52	1012.06±198.28	-1.095	2.463e-03	pubmed
ENSMUSG00000030004	Nat8	403.97±74.24	188.53±49.95	-1.102	1.739e-03	pubmed
ENSMUSG00000027381	Bcl2l11	269.06±31.46	125.27±15.84	-1.103	1.389e-02	pubmed
ENSMUSG00000032978	Guca2b	8807.32±1764.56	4097.14±810.74	-1.104	2.521e-02	pubmed
ENSMUSG00000042359	Osbp16	892.54±157.89	415.63±90.68	-1.104	3.135e-05	pubmed
ENSMUSG00000057103	Cml1	80.37±4.41	37.62±17.45	-1.109	5.130e-03	pubmed
ENSMUSG00000031563	Wwc2	87.73±8.48	40.46±9	-1.117	1.258e-02	pubmed
ENSMUSG00000028957	Per3	296.09±40.34	136.58±27.32	-1.117	2.703e-03	pubmed
ENSMUSG00000001313	Rnd2	195.34±48.47	89.94±31.07	-1.123	8.883e-03	pubmed
ENSMUSG00000022231	Sema5a	983.33±127.84	449.92±139.1	-1.127	6.861e-03	pubmed
ENSMUSG00000037348	Paqr7	206.76±34.25	95±36.98	-1.127	7.420e-03	pubmed
ENSMUSG00000038393	Txnip	4431.12±917.05	2026.75±318.96	-1.128	7.386e-03	pubmed
ENSMUSG00000078862	Gm14326	27.77±2.65	12.81±2.12	-1.128	2.761e-02	pubmed
ENSMUSG00000017493	Igfbp4	311.05±92.55	141.72±7.81	-1.134	6.448e-03	pubmed
ENSMUSG00000068551	Zfp467	265.75±19.23	120.69±40.21	-1.140	4.041e-02	pubmed
ENSMUSG00000032531	Amotl2	218.49±51.37	99.22±45.53	-1.141	3.838e-02	pubmed
ENSMUSG00000096299	Gm21814	104.21±24.8	47.26±12.11	-1.144	2.258e-02	pubmed
ENSMUSG00000006435	Neurl1a	50.85±5.87	22.9±2.37	-1.155	6.886e-03	pubmed
ENSMUSG00000052415	Tchh	72.83±6.89	32.63±7.28	-1.160	1.034e-02	pubmed
ENSMUSG00000047793	Sned1	42.69±8.63	19.13±4.57	-1.164	1.961e-02	pubmed
ENSMUSG00000039114	Nrn1	80.99±6.05	35.7±8.36	-1.176	1.880e-02	pubmed
ENSMUSG00000025515	Muc2	4487.09±1556.92	1986.34±461.4	-1.176	1.674e-02	pubmed
ENSMUSG00000025194	Abcc2	4504.17±1137.82	1991.15±132.52	-1.178	5.866e-04	pubmed
ENSMUSG00000019947	Arid5b	108.33±18.4	47.41±14.38	-1.178	5.543e-04	pubmed
ENSMUSG00000042246	Tmc7	321.19±72.52	142.05±27.97	-1.179	1.281e-02	pubmed
ENSMUSG00000027956	Tmem144	804.79±192.15	354.29±107.66	-1.184	2.055e-02	pubmed
ENSMUSG00000041762	Gpr155	266±64.64	116.31±31.2	-1.196	2.463e-03	pubmed
ENSMUSG00000097099	Gm9917	28.36±6.16	12.3±6.34	-1.206	4.825e-02	pubmed
ENSMUSG00000026103	Gls	9562.15±931.5	4136.92±1035.28	-1.209	2.961e-07	pubmed
ENSMUSG00000031980	Agt	132.61±27.9	57.1±21.83	-1.210	3.336e-02	pubmed
ENSMUSG00000028199	Cryz	123.82±20.21	53.59±15.94	-1.211	1.907e-02	pubmed
ENSMUSG00000079174	Gm3054	94.68±19.83	40.87±8.66	-1.219	8.498e-03	pubmed
ENSMUSG00000032733	Snx33	81.07±8.98	34.62±3.26	-1.225	6.658e-04	pubmed
ENSMUSG00000027698	Nceh1	414.82±65.32	177.23±93.24	-1.229	2.102e-02	pubmed

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ENSMUSG00000020893	Per1	260.51±71.31	110.02±24.95	-1.240	7.069e-04	pubmed
ENSMUSG00000067889	Sptbn2	37.38±9.77	15.78±6.76	-1.243	4.126e-02	pubmed
ENSMUSG00000037390	Muc3	5121.34±1064.51	2161.54±368.52	-1.245	5.736e-04	pubmed
ENSMUSG00000029851	Tcaf2	75.3±9.41	31.63±1.52	-1.252	6.892e-03	pubmed
ENSMUSG00000085944	1700003D09Rik	30.52±4.07	12.97±3.81	-1.256	2.525e-02	pubmed
ENSMUSG00000020653	Klf11	96.59±20.79	40.16±15.67	-1.262	4.021e-02	pubmed
ENSMUSG00000060181	Slc35e3	198.34±31.63	82.53±31.11	-1.268	1.034e-02	pubmed
ENSMUSG00000015709	Arnt2	41.73±16.49	17.29±1.43	-1.270	3.018e-02	pubmed
ENSMUSG00000020600	Slc7a15	2116.52±1050.11	878.12±314.05	-1.270	2.209e-02	pubmed
ENSMUSG00000038550	Ciart	25.11±10.27	10.43±5.04	-1.271	4.204e-02	pubmed
ENSMUSG00000019989	Enpp3	1031.04±591.34	424.88±146.85	-1.279	4.102e-02	pubmed
ENSMUSG00000006777	Krt23	33.78±3.58	13.78±3.27	-1.303	2.801e-02	pubmed
ENSMUSG00000054932	Afp	71.15±17.95	28.34±5.89	-1.321	5.669e-03	pubmed
ENSMUSG00000023828	Slc22a3	87.51±9.64	34.92±12.66	-1.321	8.113e-03	pubmed
ENSMUSG00000025091	Pnliprp2	902.52±99.86	357.72±91.93	-1.334	3.581e-05	pubmed
ENSMUSG00000048445	Ccdc57	25.57±1.98	10.18±2.24	-1.336	1.389e-02	pubmed
ENSMUSG00000044252	Osbp1a	229.8±22.38	90.97±26.08	-1.341	6.448e-04	pubmed
ENSMUSG00000040938	Slc16a11	32.29±5.49	12.8±2.02	-1.343	3.707e-02	pubmed
ENSMUSG00000037266	Rsrp1	3420.17±241.55	1348.06±251.99	-1.343	1.287e-03	pubmed
ENSMUSG00000044461	Shisa2	297.17±45.28	116.24±5.48	-1.353	2.442e-08	pubmed
ENSMUSG00000031790	Mmp15	433.79±53.7	169.47±23.28	-1.356	3.373e-04	pubmed
ENSMUSG00000018822	Sfrp5	27.37±2.93	10.63±2.57	-1.357	3.359e-02	pubmed
ENSMUSG00000027761	Aadac	488.78±42.1	190±82.69	-1.363	2.795e-02	pubmed
ENSMUSG00000022270	Fam134b	1195.86±196.11	464.47±180.49	-1.365	2.534e-02	pubmed
ENSMUSG00000031214	Ophn1	108.95±20.38	41.79±18.82	-1.390	5.908e-03	pubmed
ENSMUSG00000018920	Cxcl16	279.12±86.65	106.16±3.69	-1.395	2.395e-02	pubmed
ENSMUSG00000026170	Cyp27a1	475.1±195.97	180.66±54.89	-1.396	4.432e-03	pubmed
ENSMUSG00000035849	Krt222	46.98±8.47	17.91±6.23	-1.398	9.157e-03	pubmed
ENSMUSG00000043487	Acot6	20.26±2.24	7.7±1.35	-1.409	4.102e-02	pubmed
ENSMUSG00000020121	Srgap1	47.03±11.67	17.63±0.95	-1.412	3.971e-03	pubmed
ENSMUSG00000025584	Pde8a	54.01±10.85	19.79±11.27	-1.458	3.946e-02	pubmed
ENSMUSG00000106106	Rn18s-rs5	42.24±7.43	15.36±4.04	-1.467	1.034e-02	pubmed
ENSMUSG00000033721	Vav3	169.54±70.61	61.01±16.37	-1.475	1.918e-02	pubmed
ENSMUSG00000024818	Slc25a45	742.16±171.48	265.54±76.83	-1.484	3.968e-03	pubmed
ENSMUSG00000038224	Serpinf2	17.08±3.17	6.1±3.83	-1.500	4.676e-02	pubmed
ENSMUSG00000074364	Ehd2	28.39±4.43	9.83±3.21	-1.508	1.152e-02	pubmed
ENSMUSG00000064210	Ano6	5931.61±2299.89	2064.76±618.59	-1.523	4.065e-03	pubmed
ENSMUSG00000032374	Plod2	104.7±50.74	36.21±3.48	-1.533	3.043e-02	pubmed
ENSMUSG00000009614	Sardh	89.08±14.97	30.78±9.25	-1.536	4.354e-02	pubmed
ENSMUSG00000039110	Mycbpap	59.43±22.36	20.47±4.3	-1.542	3.280e-02	pubmed
ENSMUSG00000046318	Ccbe1	15.63±2.59	5.18±2.63	-1.559	4.295e-02	pubmed
ENSMUSG00000021457	Syk	573.1±24.16	193.74±37.82	-1.564	1.527e-03	pubmed
ENSMUSG00000027887	Sypl2	69.78±6.71	23.39±3.49	-1.577	1.349e-04	pubmed
ENSMUSG00000021464	Ror2	30.2±5.95	9.83±3.21	-1.600	1.495e-02	pubmed

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ENSMUSG00000025915	Sgk3	167.92±45.79	54.67±16.68	-1.622	7.926e-06	pubmed
ENSMUSG00000074207	Adh1	1920.38±456.86	622.81±222.3	-1.625	6.736e-03	pubmed
ENSMUSG00000027273	Snap25	14.54±2.63	4.66±0.88	-1.625	2.595e-02	pubmed
ENSMUSG00000099032	Tcf24	34.15±3.23	11.07±0.11	-1.626	1.033e-02	pubmed
ENSMUSG00000085773	Gm16233	53.02±29.4	17.17±5.33	-1.640	6.485e-03	pubmed
ENSMUSG00000033855	Ston1	130.48±1.31	41.64±18.13	-1.642	9.097e-05	pubmed
ENSMUSG00000104535		22.71±9.41	7.09±2.23	-1.696	2.122e-02	pubmed
ENSMUSG00000035967	Ddx26b	17.07±1.5	5.06±0.86	-1.755	2.155e-02	pubmed
ENSMUSG00000091721	Gm5549	538.9±369.45	155.25±17.25	-1.796	3.691e-02	pubmed
ENSMUSG00000064372	mt-Tp	12.39±5.43	3.53±1.06	-1.829	4.775e-02	pubmed
ENSMUSG00000006369	Fbln1	652.26±189.41	183.47±33.56	-1.829	5.657e-05	pubmed
ENSMUSG00000059824	Dbp	516.13±114.94	145.16±44.41	-1.830	1.178e-02	pubmed
ENSMUSG00000019577	Pdk4	27.52±15.76	7.74±2.04	-1.841	4.699e-02	pubmed
ENSMUSG00000026255	Efhd1	55.7±9.78	15.47±2.63	-1.849	1.833e-02	pubmed
ENSMUSG00000097955	Gm26950	14.17±3.73	3.83±0.91	-1.900	3.018e-02	pubmed
ENSMUSG00000037583	Nr0b2	125.29±78.72	33.26±20.07	-1.915	4.108e-02	pubmed
ENSMUSG00000019768	Esr1	87.64±15.19	22.62±13.8	-1.958	3.883e-02	pubmed
ENSMUSG00000036500	Akp3	22.77±1.27	5.92±3.8	-1.970	2.795e-02	pubmed
ENSMUSG00000020658	Efr3b	50.51±32.76	12.83±2.73	-1.974	1.746e-03	pubmed
ENSMUSG00000033032	Afaf11l	76.81±28.7	19.27±7.19	-1.995	2.820e-04	pubmed
ENSMUSG00000056486	Chn1	15.26±3.46	3.83±0.91	-2.005	2.172e-02	pubmed
ENSMUSG00000058174	Gm5148	15.63±3.44	3.71±0.96	-2.055	1.907e-02	pubmed
ENSMUSG00000029134	Plb1	8575.67±5437.28	2061.04±647.24	-2.057	2.372e-02	pubmed
ENSMUSG00000053852	Adgrg4	35.91±1.71	8.82±3.25	-2.062	2.026e-05	pubmed
ENSMUSG00000022615	Tymp	126.18±44.18	30.24±7.32	-2.064	2.335e-02	pubmed
ENSMUSG00000048583	Igf2	66.39±21.26	15.78±0.34	-2.072	2.116e-03	pubmed
ENSMUSG00000078384	Gm10935	13.47±4.79	3.25±1.36	-2.083	1.799e-02	pubmed
ENSMUSG00000037492	Zmat4	48.54±13.69	11.05±5.9	-2.145	2.751e-02	pubmed
ENSMUSG00000002475	Abhd3	4856.89±1032.74	1082.62±153.3	-2.166	2.533e-02	pubmed
ENSMUSG00000094786	Gm14403	45.13±6.23	9.95±1.98	-2.173	2.703e-03	pubmed
ENSMUSG00000021367	Edn1	62.64±23.57	13.54±7.92	-2.218	2.493e-03	pubmed
ENSMUSG00000042116	Vwa1	381.29±131.22	81.71±52.6	-2.225	1.487e-03	pubmed
ENSMUSG00000042179	Pnliprp1	18.89±4.46	3.95±2.87	-2.228	2.238e-02	pubmed
ENSMUSG00000071847	Apcdd1	47.52±9.31	10.11±0.08	-2.234	1.609e-06	pubmed
ENSMUSG00000043415	Otud1	42.97±4.33	9.24±5.92	-2.245	8.246e-04	pubmed
ENSMUSG00000036242	3632451O06Rik	21.62±8.61	4.34±1.68	-2.305	2.222e-02	pubmed
ENSMUSG00000036216	Leap2	194.59±107.96	36.88±6.1	-2.398	1.191e-04	pubmed
ENSMUSG00000085826	Gm15638	13.48±2.64	2.49±1.78	-2.426	3.359e-02	pubmed
ENSMUSG00000061013	Mkx	15.63±9.28	2.86±0.24	-2.455	1.693e-02	pubmed
ENSMUSG00000056973	Ces1d	107.97±28.97	19.42±13.23	-2.479	1.532e-02	pubmed
ENSMUSG00000038415	Foxq1	63.18±37.53	11.07±3.68	-2.526	1.286e-03	pubmed
ENSMUSG00000024354	Slc23a1	98.31±64.85	16.65±4.1	-2.565	5.333e-03	pubmed
ENSMUSG00000025370	Cdh9	56.22±22.7	9.27±9.33	-2.611	4.041e-02	pubmed
ENSMUSG00000050395	Tnfsf15	101.21±19.17	14.64±2.39	-2.790	8.111e-03	pubmed

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ENSMUSG00000032377	Plscr4	77.14±34.35	9.58±4.28	-3.013	5.543e-04	pubmed
ENSMUSG0000003555	Cyp17a1	41.63±4.3	4.74±2.93	-3.135	9.432e-04	pubmed
ENSMUSG00000035486	Plk5	149.63±56.48	16.43±11.99	-3.190	3.090e-03	pubmed
ENSMUSG00000026354	Lct	1775.46±1425.31	116.76±67.96	-3.927	3.416e-03	pubmed
ENSMUSG00000032372	Plscr2	70.05±31.19	2.71±3.16	-4.724	9.241e-04	pubmed
ENSMUSG00000027690	Slc2a2	608.67±323.66	20.63±12.87	-4.886	1.946e-05	pubmed
ENSMUSG00000074139	1700057G04Rik	75.49±42.26	2.38±3.37	-5.010	1.433e-02	pubmed
ENSMUSG00000024437	Gm8615	99.11±34.23	0±0	-11.468	1.025e-03	pubmed

Supplemental Table 2: Interferome genes differentially expressed in GR^{dim/dim} compared to GR^{wt/wt} IECs. Table of 228 ISGs with significantly higher expression in GR^{dim/dim} mice compared to GR^{wt/wt} mice in IECs based on RNASeq data (alphabetical order).

Supplemental File SF3: Interferome genes differentially expressed in GR^{dim/dim} compared to GR^{wt/wt} IECs.

Table of 228 ISGs found significantly higher in GR^{dim/dim} mice compared to GR^{wt/wt} mice in intestinal epithelial cells by RNASeq (alphabetical order).

<u>Ensembl Id</u>	<u>Gene Name</u>
ENSMUSG00000063236	1110038F14Rik
ENSMUSG00000020101	4632428N05Rik
ENSMUSG00000069893	9930111J21Rik1
ENSMUSG00000069892	9930111J21Rik2
ENSMUSG00000001588	Acap1
ENSMUSG00000048534	Amica1
ENSMUSG00000018340	Anxa6
ENSMUSG00000010601	Apol7a
ENSMUSG00000040345	Arhgap9
ENSMUSG00000049866	Arl4c
ENSMUSG00000060216	Arrb2
ENSMUSG00000033508	Asprv1
ENSMUSG00000075010	AW112010
ENSMUSG00000060802	B2m
ENSMUSG00000039699	Batf2
ENSMUSG00000024371	C2
ENSMUSG00000073405	C920025E04Rik
ENSMUSG00000031628	Casp3
ENSMUSG00000033538	Casp4
ENSMUSG00000007655	Cav1
ENSMUSG00000018930	Ccl4
ENSMUSG00000035042	Ccl5
ENSMUSG00000049103	Ccr2
ENSMUSG00000079227	Ccr5
ENSMUSG00000043953	Ccr12
ENSMUSG00000022667	Cd200r1
ENSMUSG00000034028	Cd226
ENSMUSG00000016496	Cd274
ENSMUSG00000032094	Cd3d
ENSMUSG00000002033	Cd3g
ENSMUSG00000017652	Cd40
ENSMUSG00000024669	Cd5
ENSMUSG00000000682	Cd52
ENSMUSG00000030156	Cd69
ENSMUSG00000024610	Cd74
ENSMUSG00000020015	Cdk17
ENSMUSG00000046841	Ckap4
ENSMUSG00000023959	Clic5
ENSMUSG00000004665	Cnn2

ENSMUSG00000030707	Coro1a
ENSMUSG00000024910	Ctsw
ENSMUSG00000029417	Cxcl9
ENSMUSG00000020340	Cyfp2
ENSMUSG00000033470	Cysltr2
ENSMUSG00000018008	Cyth4
ENSMUSG00000022864	D16Ert472e
ENSMUSG00000027068	Dhrs9
ENSMUSG00000038608	Dock10
ENSMUSG00000073102	Drc1
ENSMUSG00000040415	Dtx3
ENSMUSG00000035105	Egln3
ENSMUSG00000057561	Eif1a
ENSMUSG00000032035	Ets1
ENSMUSG00000035104	Eva1a
ENSMUSG00000029270	Fam69a
ENSMUSG00000053158	Fes
ENSMUSG00000016087	Fli1
ENSMUSG00000022148	Fyb
ENSMUSG00000028270	Gbp2
ENSMUSG00000028268	Gbp3
ENSMUSG00000079363	Gbp4
ENSMUSG00000040253	Gbp7
ENSMUSG00000034438	Gbp8
ENSMUSG00000029298	Gbp9
ENSMUSG00000039264	Gimap3
ENSMUSG00000047867	Gimap6
ENSMUSG00000040978	Gm11992
ENSMUSG00000048852	Gm12185
ENSMUSG00000082292	Gm12250
ENSMUSG00000079339	Gm14446
ENSMUSG00000068606	Gm4841
ENSMUSG00000058163	Gm5431
ENSMUSG00000073980	Gm9574
ENSMUSG00000021298	Gpr132
ENSMUSG00000040229	Gpr34
ENSMUSG00000021886	Gpr65
ENSMUSG00000023132	Gzma
ENSMUSG00000015437	Gzmb
ENSMUSG00000036594	H2-Aa
ENSMUSG00000073421	H2-Ab1
ENSMUSG00000073411	H2-D1
ENSMUSG00000037649	H2-DMa
ENSMUSG00000079547	H2-DMb1
ENSMUSG00000037548	H2-DMb2
ENSMUSG00000060586	H2-Eb1
ENSMUSG00000061232	H2-K1
ENSMUSG00000016206	H2-M3

ENSMUSG00000067235	H2-Q10
ENSMUSG00000035929	H2-Q4
ENSMUSG00000055413	H2-Q5
ENSMUSG00000073409	H2-Q6
ENSMUSG00000060550	H2-Q7
ENSMUSG00000067212	H2-T23
ENSMUSG00000075254	Heg1
ENSMUSG00000029798	Herc6
ENSMUSG00000043099	Hic1
ENSMUSG00000000628	Hk2
ENSMUSG00000035697	Hmha1
ENSMUSG00000025092	Hspa12a
ENSMUSG00000064267	Hvcn1
ENSMUSG00000031551	Ido1
ENSMUSG00000039997	Ifi203
ENSMUSG00000028037	Ifi44
ENSMUSG00000078920	Ifi47
ENSMUSG00000045932	Ifit2
ENSMUSG00000025492	Ifitm3
ENSMUSG00000078853	Igtp
ENSMUSG00000054072	Iigp1
ENSMUSG00000018654	Ikzf1
ENSMUSG00000018341	Il12rb2
ENSMUSG00000001741	Il16
ENSMUSG00000070427	Il18bp
ENSMUSG00000026068	Il18rap
ENSMUSG00000030745	Il21r
ENSMUSG00000040329	Il7
ENSMUSG00000050957	Insl6
ENSMUSG00000018899	Irf1
ENSMUSG00000041515	Irf8
ENSMUSG00000046879	Irgm1
ENSMUSG00000069874	Irgm2
ENSMUSG00000027009	Itga4
ENSMUSG00000030830	Itgal
ENSMUSG00000001281	Itgb7
ENSMUSG00000020395	Itk
ENSMUSG00000034271	Jdp2
ENSMUSG00000028931	Kcnab2
ENSMUSG00000055541	Lair1
ENSMUSG00000030742	Lat
ENSMUSG00000000409	Lck
ENSMUSG00000002699	Lcp2
ENSMUSG00000024696	Lpxn
ENSMUSG00000032496	Ltf
ENSMUSG00000075602	Ly6a
ENSMUSG00000022587	Ly6e
ENSMUSG00000024863	Mbl2

ENSMUSG00000041390	Mdfic
ENSMUSG00000012519	Mlkl
ENSMUSG00000032470	Mras
ENSMUSG00000024677	Ms4a6b
ENSMUSG00000022272	Myo10
ENSMUSG00000056749	Nfil3
ENSMUSG00000004612	Nkg7
ENSMUSG00000074151	Nlrc5
ENSMUSG00000028245	Nsmaf
ENSMUSG00000025817	Nudt5
ENSMUSG00000040328	Olfr56
ENSMUSG00000029468	P2rx7
ENSMUSG00000028525	Pde4b
ENSMUSG00000026417	Pigr
ENSMUSG00000025017	Pik3ap1
ENSMUSG00000026737	Pip4k2a
ENSMUSG00000040430	Pitpnc1
ENSMUSG00000060675	Pla2g16
ENSMUSG00000078485	Plekhn1
ENSMUSG00000029120	Ppp2r2c
ENSMUSG00000038151	Prdm1
ENSMUSG00000037202	Prf1
ENSMUSG00000005034	Prkacb
ENSMUSG00000026778	Prkcq
ENSMUSG00000031897	Psmb10
ENSMUSG00000024338	Psmb8
ENSMUSG00000096727	Psmb9
ENSMUSG00000079197	Psme2
ENSMUSG00000032322	Pstpip1
ENSMUSG00000026395	Ptprc
ENSMUSG00000045826	Ptprcap
ENSMUSG00000030223	Ptpro
ENSMUSG00000043263	Pyhin1
ENSMUSG00000032946	Rasgrp2
ENSMUSG00000040723	Rcsd1
ENSMUSG00000026358	Rgs1
ENSMUSG00000032238	Rora
ENSMUSG00000022952	Runx1
ENSMUSG00000039153	Runx2
ENSMUSG00000070691	Runx3
ENSMUSG00000074115	Saa1
ENSMUSG00000027639	Samhd1
ENSMUSG00000022769	Sdf2l1
ENSMUSG00000025165	Sectm1a
ENSMUSG00000026581	Sell
ENSMUSG00000040990	Sh3kbp1
ENSMUSG00000056917	Sipa1
ENSMUSG00000022372	Sla

ENSMUSG00000038179	Slamf7
ENSMUSG00000017765	Slc12a4
ENSMUSG00000036067	Slc2a6
ENSMUSG00000027074	Slc43a3
ENSMUSG00000078763	Sln1
ENSMUSG00000072620	Sln2
ENSMUSG00000027333	Smox
ENSMUSG00000028885	Smpd13b
ENSMUSG00000038037	Socs1
ENSMUSG00000026222	Sp100
ENSMUSG00000070034	Sp110
ENSMUSG00000070031	Sp140
ENSMUSG00000038305	Spats2l
ENSMUSG00000051457	Spn
ENSMUSG00000079442	St6galnac4
ENSMUSG00000040710	St8sia4
ENSMUSG00000026104	Stat1
ENSMUSG00000021384	Susd3
ENSMUSG00000037321	Tap1
ENSMUSG00000024339	Tap2
ENSMUSG00000038213	Tapbp1
ENSMUSG00000001444	Tbx21
ENSMUSG00000029359	Tesc
ENSMUSG0000002603	Tgfb1
ENSMUSG00000037820	Tgm2
ENSMUSG00000078921	Tgtp2
ENSMUSG00000032011	Thy1
ENSMUSG00000027995	Tlr2
ENSMUSG00000020023	Tmcc3
ENSMUSG00000024349	Tmem173
ENSMUSG00000046157	Tmem229b
ENSMUSG00000079523	Tmsb10
ENSMUSG00000028599	Tnfrsf1b
ENSMUSG00000031497	Tnfsf13b
ENSMUSG00000076928	Trac
ENSMUSG00000076490	Trbc1
ENSMUSG00000076498	Trbc2
ENSMUSG00000064043	Trerf1
ENSMUSG00000030921	Trim30a
ENSMUSG00000035186	Ubd
ENSMUSG00000020407	Upp1
ENSMUSG00000030107	Usp18
ENSMUSG00000024066	Xdh
ENSMUSG00000027514	Zbp1

ENSMUSG00000050600

Zfp831

Table of 56 ISGs found significantly lower in GR^{dim/dim} mice compared to GR^{wt/wt} mice in intestinal epithelial cells by RNASeq (alphabetical order).

<u>Ensembl Id</u>	<u>Gene Name</u>
ENSMUSG00000054932	Afp
ENSMUSG00000024747	Aldh1a7
ENSMUSG00000071847	Apcdd1
ENSMUSG00000019947	Arid5b
ENSMUSG00000017418	Arl5b
ENSMUSG00000006567	Atp7b
ENSMUSG00000040213	Ccbl2
ENSMUSG00000064105	Cnm2
ENSMUSG00000038648	Creb3l2
ENSMUSG00000018920	Cxcl16
ENSMUSG00000003555	Cyp17a1
ENSMUSG00000059824	Dbp
ENSMUSG00000035967	Ddx26b
ENSMUSG00000021367	Edn1
ENSMUSG00000074364	Ehd2
ENSMUSG00000041773	Enc1
ENSMUSG00000022270	Fam134b
ENSMUSG00000061175	Fnip2
ENSMUSG00000029714	Gigyf1
ENSMUSG00000026103	Gls
ENSMUSG00000038550	Gm129
ENSMUSG00000087008	Gm5530
ENSMUSG00000041762	Gpr155
ENSMUSG00000035849	Krt222
ENSMUSG00000028003	Lrat
ENSMUSG00000040249	Lrp1
ENSMUSG00000027253	Lrp4
ENSMUSG00000006435	Neurl1a
ENSMUSG00000055053	Nfic
ENSMUSG00000021775	Nr1d2
ENSMUSG00000044252	Osbpl1a
ENSMUSG00000043415	Otud1
ENSMUSG00000026335	Pam
ENSMUSG00000037348	Paqr7
ENSMUSG00000019577	Pdk4
ENSMUSG00000032788	Pdxk
ENSMUSG00000020893	Per1
ENSMUSG00000060716	Plekhh1
ENSMUSG00000032369	Plscr1
ENSMUSG00000032372	Plscr2
ENSMUSG00000029167	Ppargc1a
ENSMUSG00000022912	Pros1

ENSMUSG00000002222	Rmnd5a
ENSMUSG000000025915	Sgk3
ENSMUSG000000040938	Slc16a11
ENSMUSG000000032449	Slc25a36
ENSMUSG000000028976	Slc2a5
ENSMUSG000000060181	Slc35e3
ENSMUSG000000028385	Snx30
ENSMUSG000000032733	Snx33
ENSMUSG000000031626	Sorbs2
ENSMUSG000000074093	Svip
ENSMUSG000000052415	Tchh
ENSMUSG000000038393	Txnip
ENSMUSG000000035112	Wnk4
ENSMUSG000000068551	Zfp467

Supplemental Table 3: List of genes significantly induced by TNF in GR^{wt/wt} and GR^{dim/dim}, but only in GR^{wt/wt} and not in GR^{dim/dim} mice significantly repressed by DEX. 93 such genes were identified by RNAseq, including the highlighted *Ripk3*, *Zbp1* and *Mkl1* which are important in necroptosis.

Ensgene	Symbol	WT NI	WT TNF	WT DT	WT TNF-NI	WT DT-NI	DIM NI	DIM TNF	DIM DT	DIM TNF-NI	DIM DT-NI	Links
ENSMUSG00000021831	Ero1l	669.665 ± 89.014	1792.083 ± 521.441	946.698 ± 43.028	1.420	0.500	706.686 ± 112.801	1806.566 ± 579.089	1361.492 ± 428.194	1.354	0.946	pubmed
ENSMUSG00000035930	Chst4	255.178 ± 18.268	1443.654 ± 500.431	763.669 ± 42.647	2.500	1.582	217.031 ± 17.371	2517.509 ± 580.228	2561.124 ± 933.531	3.537	3.561	pubmed
ENSMUSG00000000555	Itga5	18.879 ± 2.446	116.401 ± 14.475	62.097 ± 8.942	2.625	1.717	31.716 ± 17.047	115.114 ± 12.780	70.989 ± 23.921	1.843	1.143	pubmed
ENSMUSG00000074656	Eif2s2	1402.054 ± 108.517	4858.554 ± 976.415	2597.963 ± 166.356	1.793	0.890	2013.569 ± 234.364	7018.033 ± 2365.492	6449.547 ± 2761.872	1.801	1.679	pubmed
ENSMUSG00000044162	Tnip3	0.000 ± 0.000	718.877 ± 89.301	386.746 ± 54.254	26.190	25.296	3.885 ± 1.593	919.594 ± 252.891	638.564 ± 77.252	7.916	7.390	pubmed
ENSMUSG00000005667	Mthfd2	135.440 ± 28.953	1173.078 ± 185.003	634.824 ± 140.272	3.115	2.230	144.709 ± 24.433	1435.005 ± 370.122	1120.642 ± 155.168	3.308	2.951	pubmed
ENSMUSG00000017861	Mybl2	102.259 ± 17.669	241.249 ± 29.912	131.765 ± 25.204	1.238	0.366	134.994 ± 37.797	212.386 ± 26.896	176.031 ± 7.007	0.648	0.379	pubmed
ENSMUSG00000079523	Tmsb10	749.750 ± 32.759	1985.491 ± 332.155	1111.818 ± 37.494	1.405	0.568	1419.893 ± 394.301	3248.354 ± 635.231	2331.178 ± 770.218	1.194	0.715	pubmed
ENSMUSG00000000628	Hk2	301.813 ± 48.730	9563.877 ± 2326.171	5447.582 ± 537.059	4.986	4.174	1101.807 ± 518.934	11245.538 ± 2877.026	9483.024 ± 2622.528	3.351	3.105	pubmed
ENSMUSG00000066148	Prpf4	194.540 ± 28.769	884.368 ± 231.062	505.413 ± 25.439	2.184	1.378	198.978 ± 20.726	910.901 ± 122.420	947.081 ± 130.233	2.193	2.250	pubmed
ENSMUSG00000034394	Lif	30.864 ± 5.286	105.100 ± 2.228	61.447 ± 6.506	1.767	0.994	31.876 ± 4.586	79.468 ± 26.183	56.100 ± 20.296	1.318	0.814	pubmed
ENSMUSG00000031490	Eif4ebp1	276.455 ± 36.184	1061.237 ± 150.564	624.820 ± 34.212	1.940	1.176	235.378 ± 39.114	1782.973 ± 313.578	1487.766 ± 194.749	2.924	2.662	pubmed
ENSMUSG00000031700	Gpt2	95.130 ± 14.965	204.998 ± 14.079	120.962 ± 14.667	1.108	0.348	66.382 ± 5.889	268.265 ± 80.684	164.317 ± 26.268	2.016	1.308	pubmed
ENSMUSG00000074886	Grk6	487.028 ± 43.998	999.151 ± 109.229	595.400 ± 50.496	1.037	0.290	606.591 ± 79.587	771.246 ± 53.302	809.097 ± 11.471	0.345	0.414	pubmed
ENSMUSG00000028262	Clca3a2	104.953 ± 14.282	370.382 ± 89.746	221.639 ± 12.886	1.819	1.079	90.909 ± 13.799	666.596 ± 169.384	441.477 ± 289.885	2.873	2.279	pubmed
ENSMUSG00000066760	Psg16	82.838 ± 6.777	186.297 ± 26.933	111.531 ± 12.832	1.168	0.430	129.364 ± 57.463	427.668 ± 30.181	274.951 ± 20.228	1.730	1.092	pubmed
ENSMUSG00000036805	Noxa1	108.282 ± 22.698	236.509 ± 16.178	144.536 ± 8.155	1.128	0.417	212.179 ± 33.052	137.029 ± 35.192	128.555 ± 15.351	-0.629	-0.726	pubmed
ENSMUSG00000040675	Mthfd11	136.321 ± 21.517	496.768 ± 57.379	304.292 ± 46.906	1.866	1.160	96.821 ± 9.590	575.720 ± 46.938	525.305 ± 26.311	2.568	2.435	pubmed
ENSMUSG00000023883	Phf10	409.443 ± 16.303	989.105 ± 147.155	608.197 ± 54.698	1.272	0.571	428.066 ± 14.550	1667.815 ± 418.708	1379.357 ± 271.572	1.962	1.688	pubmed
ENSMUSG00000075254	Heg1	53.385 ± 4.338	428.486 ± 61.701	268.430 ± 40.275	3.006	2.332	126.059 ± 26.569	675.085 ± 80.632	467.980 ± 75.709	2.422	1.893	pubmed
ENSMUSG00000010755	Cars	213.525 ± 20.135	1026.251 ± 69.892	644.607 ± 70.069	2.265	1.595	258.867 ± 26.818	1174.401 ± 88.089	1031.701 ± 104.727	2.179	1.992	pubmed
ENSMUSG00000038732	Mboat1	342.592 ± 48.499	2031.043 ± 221.604	1283.954 ± 70.782	2.568	1.906	608.876 ± 132.690	3282.560 ± 351.598	2521.028 ± 568.836	2.431	2.050	pubmed
ENSMUSG00000024613	Tcofl	231.584 ± 34.552	734.632 ± 89.023	464.862 ± 25.508	1.666	1.006	253.161 ± 39.039	608.895 ± 83.767	531.715 ± 17.129	1.264	1.068	pubmed
ENSMUSG00000019320	Noxol	496.996 ± 19.697	2084.752 ± 30.381	1360.150 ± 50.627	2.069	1.453	802.707 ± 32.947	2108.026 ± 26.942	2004.674 ± 169.361	1.394	1.320	pubmed
ENSMUSG00000040354	Mars	348.344 ± 51.810	1408.794 ± 69.085	923.310 ± 92.670	2.016	1.407	384.214 ± 59.799	1525.774 ± 275.809	1467.514 ± 95.040	1.988	1.931	pubmed
ENSMUSG00000028811	Yars	429.406 ± 16.736	1403.292 ± 193.436	932.765 ± 82.398	1.708	1.119	480.976 ± 68.080	1604.975 ± 226.723	1531.800 ± 303.096	1.737	1.670	pubmed
ENSMUSG00000031960	Aars	1020.083 ± 30.022	2776.697 ± 40.400	1915.248 ± 193.299	1.445	0.909	1090.510 ± 62.054	2955.505 ± 367.077	2590.107 ± 145.156	1.438	1.247	pubmed
ENSMUSG00000053862	Slc51b	2956.586 ± 237.667	6178.282 ± 574.864	4276.636 ± 617.444	1.063	0.533	4790.983 ± 1264.068	7329.470 ± 951.661	10386.213 ± 1337.513	0.614	1.116	pubmed
ENSMUSG00000005481	Ddx39	574.346 ± 44.955	1542.971 ± 230.990	1088.621 ± 33.428	1.426	0.923	805.829 ± 134.718	1517.956 ± 105.969	1498.162 ± 154.814	0.912	0.893	pubmed