

## SUPPLEMENTARY INFORMATION

**Table S1.** Unmappable Ensembl ID.

**Table S2.** Contributory genes to the top 10 IPA pathways, by region.

**Fig. S1.** Additional differentially regulated neurotransmission and signal transduction-associated transcripts in white matter after brain irradiation. Several neurotransmission and signal transduction transcripts were downregulated in white matter after brain irradiation. Potassium two pore domain channel subfamily K member (KCNK5) was upregulated within both irradiated groups. Differential expressed genes are listed in order of direction and then alphabetically within treatment groups. Bar: Mean log<sub>2</sub>fold change. Error bars: log fold change standard error. \*Log<sub>2</sub> fold changes  $< \pm 1$  and multiplicity adjusted p values (Benjamini-Hochberg)  $< 0.05$ .

**Table S1**

Treatment	Region	Proportion Unmappable DEGs		Protein Coding		Pseudogene		miRNA		snf
fWBI	DLPFC	3/55	(5.45%)	1/3	(33.33%)	1/3	(33.33%)	0/3	(0.00%)	1/3
fWBI	HC	1/32	(3.13%)	1/1	(100.00%)	0/1	(0.00%)	0/1	(0.00%)	0/1
fWBI	WM	130/1815	(7.16%)	76/130	(58.46%)	24/130	(18.46%)	8/130	(6.15%)	8/130
TBI	DLPFC	0/2	(0.00%)	0/0	(0.00%)	0/0	(0.00%)	0/0	(0.00%)	0/0
TBI	HC	0/0	(0.00%)	0/0	(0.00%)	0/0	(0.00%)	0/0	(0.00%)	0/0
TBI	WM	7/172	(4.07%)	3/7	(42.86%)	2/7	(28.57%)	1/7	(14.29%)	1/7

rNA	snoRNA		Other	
(33.33%)	0/3	(0.00%)	0/3	(0.00%)
(0.00%)	0/1	(0.00%)	0/1	(0.00%)
(6.15%)	13/130	(10.00%)	1/130	(0.00%)
(0.00%)	0/0	(0.00%)	0/0	(0.00%)
(0.00%)	0/0	(0.00%)	0/0	(0.00%)
(14.29%)	0/7	(0.00%)	0/7	(0.00%)

<b>Group</b>	<b>Region</b>	<b>Ensembl ID</b>
Fractionated Whole Brain Irradiation	DLPFC	ENSMMUG00000012220
Fractionated Whole Brain Irradiation	DLPFC	ENSMMUG00000028145
Fractionated Whole Brain Irradiation	DLPFC	ENSMMUG00000029925
Fractionated Whole Brain Irradiation	Hippocampus	ENSMMUG00000023043
Total Body Irradiation	White Matter	ENSMMUG00000029813
Total Body Irradiation	White Matter	ENSMMUG00000006365
Total Body Irradiation	White Matter	ENSMMUG00000009880
Total Body Irradiation	White Matter	ENSMMUG00000014842
Total Body Irradiation	White Matter	ENSMMUG00000031695
Total Body Irradiation	White Matter	ENSMMUG00000033675
Total Body Irradiation	White Matter	ENSMMUG00000028170
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000029813
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000033532
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000034118
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000034731
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000035119
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000035169
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000036465
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000028568
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000027037
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000023926
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Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000026549
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000026705
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Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000027929
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000027952
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Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000028527
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Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000003065
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000004726
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000005390
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000005470

Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000005472
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000005943
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000006099
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000006365
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000007632
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000007776
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Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000008570
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Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000021014
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000021300
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000021336
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Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000023040
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Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000030055

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Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000030992
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Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000032018
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000032021
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000032106
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000032345
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000032469
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Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000028735
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000028943
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000029253
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000029260
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000029852
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000029925
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000030903
Fractionated Whole Brain Irradiation	White Matter	ENSMMUG00000031021

Fractionated Whole Brain Irradiation

White Matter

ENSMMUG00000028155

Identifier/Function	Log2FoldChange	lfcSE	adjusted p-value
C1ORF106	-1.001389415	0.189966075	0.0000390622
U1, snRNA	-1.200939905	0.198544989	0.0000006119
Uncharacterized, pseudogene	1.082758023	0.152847908	0.0000000010
Uncharacterized, protein coding gene	1.060347043	0.184811161	0.0000059033
C4 Fragment	1.479545794	0.380856282	0.0163778403
Uncharacterized, protein coding gene	-1.189537336	0.344733816	0.0373182506
Uncharacterized, pseudogene	-1.308455626	0.380032671	0.0374999408
Uncharacterized, pseudogene	-1.107487706	0.262762348	0.0065507338
Uncharacterized, protein coding gene	-1.241008177	0.329070369	0.0197563375
miRNA	-1.536543727	0.37199738	0.0082941713
U1, snRNA	-1.279162502	0.38659164	0.0476075469
C4 Fragment, protein coding gene	3.371721502	0.480641769	0.0000000002
miRNA	2.18698821	0.583167036	0.002668589
miRNA	-1.966105606	0.576508791	0.007807745
miRNA	1.956131756	0.618121527	0.015484237
miRNA	-1.314370476	0.364997625	0.004335822
miRNA	-1.624777397	0.577773941	0.038146843
miRNA	1.266001239	0.425693321	0.0256472817
mml-mir-147b, miRNA	1.889545254	0.596076422	0.0152343486
mml-mir-9-1, miRNA	-1.304476026	0.418039823	0.0174568670
SNORD113, snoRNA	-1.634964281	0.53591577	0.0211045801
SNORD113, snoRNA	-1.619289455	0.579958136	0.0398576467
SNORD113, snoRNA	-1.724979035	0.619622167	0.0405546501
SNORD113, snoRNA	-1.673285949	0.580949314	0.0321538520
SNORD113, snoRNA	-1.729226484	0.5983679	0.0313810134
SNORD113, snoRNA	-1.670277669	0.618550878	0.0488956875
SNORD113, snoRNA	-1.99111532	0.583538282	0.0077667181
SNORD115, snoRNA	-1.454450473	0.447973539	0.0124119682
SNORD116, snoRNA	-2.920531853	0.588684873	0.0000209253
snoU13, snoRNA	-1.121452015	0.321099344	0.0060961543
snoU13, snoRNA	-1.765545508	0.62363204	0.0364312341
snoU13, snoRNA	-1.683375771	0.624265578	0.0493161209
snoZ17, snoRNA	-1.507967614	0.51436526	0.0283480111
U1, snRNA	-1.014733191	0.269358815	0.0025166797
U1, snRNA	-1.445161918	0.460726251	0.0166597792
U1, snRNA	-1.326981803	0.321800096	0.0006947083
U1, snRNA	-1.66565654	0.574268877	0.0306513360
U1, snRNA	-1.069413207	0.356697509	0.0240716790
U1, snRNA	-1.726901087	0.41970919	0.0007195122
U1, snRNA	-1.102975606	0.400410428	0.0433883936
U2, snRNA	-1.232312203	0.410952299	0.0240480456
Uncharacterized, protein coding gene	-1.933139666	0.60169903	0.0135342776
Uncharacterized, protein coding gene	1.905796676	0.623796145	0.0208726764
Uncharacterized, protein coding gene	-1.995596702	0.57157043	0.0061175426
Uncharacterized, protein coding gene	1.928264731	0.514871474	0.0027122828
Uncharacterized, protein coding gene	-1.911452681	0.467158967	0.0007877909



Uncharacterized, protein coding gene	-1.986471573	0.532331465	0.002828763
Uncharacterized, protein coding gene	-2.017095829	0.576423466	0.005970541
Uncharacterized, protein coding gene	2.025401108	0.555394448	0.003749501
Uncharacterized, protein coding gene	-1.563846395	0.461975242	0.008402365
Uncharacterized, protein coding gene	2.061546426	0.616133904	0.009378318
Uncharacterized, protein coding gene	2.555348475	0.619007251	0.000683838
Uncharacterized, protein coding gene	-1.139647877	0.339222138	0.00901955
Uncharacterized, protein coding gene	-1.518735562	0.53804125	0.037119231
Uncharacterized, protein coding gene	-1.624575962	0.284230173	5.08E-07
Uncharacterized, protein coding gene	2.022004175	0.443618373	0.000121514
Uncharacterized, protein coding gene	-1.61768664	0.418021815	0.001758043
Uncharacterized, protein coding gene	-1.162516083	0.255621731	0.000126617
Uncharacterized, protein coding gene	-1.638013714	0.285908097	4.74E-07
Uncharacterized, protein coding gene	1.371965493	0.258665354	4.14E-06
Uncharacterized, protein coding gene	1.482646386	0.365499154	0.000895078
Uncharacterized, protein coding gene	2.713010683	0.473453972	4.72E-07
Uncharacterized, protein coding gene	1.626756522	0.401549502	0.000912203
Uncharacterized, protein coding gene	-1.25020918	0.433581882	0.031897534
Uncharacterized, protein coding gene	-1.694866145	0.552367644	0.020181729
Uncharacterized, protein coding gene	-1.063085924	0.354387816	0.023982871
Uncharacterized, protein coding gene	-1.308148791	0.401959738	0.012172529
Uncharacterized, protein coding gene	1.29668225	0.457803111	0.036320517
Uncharacterized, protein coding gene	-3.046024713	0.36104651	6.07E-15
Uncharacterized, protein coding gene	1.922524315	0.297448997	7.38E-09
Uncharacterized, protein coding gene	-1.517348276	0.531397516	0.034209873
Uncharacterized, protein coding gene	1.974158004	0.599761901	0.010921979
Uncharacterized, protein coding gene	-2.486020759	0.621902184	0.001109231
Uncharacterized, protein coding gene	1.232580676	0.342633965	0.004385015
Uncharacterized, protein coding gene	1.945539803	0.615290419	0.015577763
Uncharacterized, protein coding gene	1.234205389	0.188928563	4.80E-09
Uncharacterized, protein coding gene	1.650202315	0.291862913	7.07E-07
Uncharacterized, protein coding gene	1.927589165	0.416500728	8.97E-05
Uncharacterized, protein coding gene	-1.512792643	0.450424902	0.009037261
Uncharacterized, protein coding gene	1.63251611	0.539472063	0.022452808
Uncharacterized, protein coding gene	-1.80652276	0.407238847	0.000201595
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Uncharacterized, protein coding gene	-1.265387913	0.454182148	0.040389293
Uncharacterized, protein coding gene	1.849530269	0.527981993	0.005908062
Uncharacterized, protein coding gene	-1.437827922	0.323602908	0.000196567
Uncharacterized, protein coding gene	1.212735337	0.433653732	0.039434456
Uncharacterized, protein coding gene	-1.7945427	0.438469783	0.000784989
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Uncharacterized, protein coding gene	-1.955336813	0.565667042	0.006810406
Uncharacterized, protein coding gene	1.301030322	0.217385219	1.18E-07
Uncharacterized, protein coding gene	1.496349487	0.533082827	0.03851595
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Uncharacterized, protein coding gene	1.211047839	0.335348392	0.004188359
Uncharacterized, protein coding gene	-1.48853763	0.530400227	0.038558173
Uncharacterized, protein coding gene	2.797570655	0.460432916	7.06E-08
Uncharacterized, protein coding gene	1.69589469	0.374547453	0.000137677
Uncharacterized, protein coding gene	-2.319976346	0.313548338	1.58E-11
Uncharacterized, protein coding gene	-2.480623144	0.410193509	8.31E-08
Uncharacterized, protein coding gene	1.26539962	0.46227205	0.04507795
Uncharacterized, protein coding gene	-1.798642605	0.598294319	0.023573357
Uncharacterized, protein coding gene	2.614378787	0.49793703	5.34E-06
Uncharacterized, protein coding gene	2.225854563	0.450853743	2.34E-05
Uncharacterized, protein coding gene	1.654298565	0.60828027	0.046859282
Uncharacterized, protein coding gene	-1.675412355	0.609714394	0.043971147
Uncharacterized, protein coding gene	-1.969660408	0.435597443	0.000141203
Uncharacterized, protein coding gene	1.417683144	0.287554267	2.41E-05
Uncharacterized, protein coding gene	-2.015474983	0.570425904	0.005395293
Uncharacterized, protein coding gene	-1.122098304	0.38463252	0.029419568
Uncharacterized, protein coding gene	1.224924029	0.423132185	0.031025089
Uncharacterized, protein coding gene	1.535553858	0.26509995	3.42E-07
Uncharacterized, protein coding gene	-1.68107438	0.540437745	0.017970602
Uncharacterized, protein coding gene	4.696933561	0.541664753	9.17E-16
Uncharacterized, protein coding gene	2.328512726	0.623105624	0.002780491
Uncharacterized, protein coding gene	1.427454121	0.426470507	0.009349036
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Uncharacterized, pseudogene	-1.526977503	0.342770871	0.0001875089
Uncharacterized, pseudogene	-1.900094788	0.49162167	0.0017855322
Uncharacterized, pseudogene	-1.787624645	0.607664122	0.0276693215
Uncharacterized, pseudogene	1.726639066	0.248904862	3.65E-10
Uncharacterized, pseudogene	2.563876203	0.621069231	0.000683838
Uncharacterized, pseudogene	-1.454774665	0.491452454	0.026403272
Uncharacterized, pseudogene	2.530864155	0.596135604	0.00043442
Uncharacterized, pseudogene	1.279447507	0.240395877	3.79E-06
Uncharacterized, pseudogene	-1.572714266	0.53636669	0.028328353
Uncharacterized, pseudogene	-1.302418974	0.409154935	0.014684664
Uncharacterized, pseudogene	-1.583877606	0.29774168	3.83E-06
Uncharacterized, pseudogene	-1.808248925	0.597545133	0.022452808
Uncharacterized, pseudogene	-1.267655622	0.332509974	0.002149166
Uncharacterized, pseudogene	-1.589911234	0.565485026	0.038194364
Uncharacterized, pseudogene	1.737035901	0.612522817	0.035972195
Uncharacterized, pseudogene	1.042094619	0.166522976	2.46E-08
Uncharacterized, pseudogene	-1.646388569	0.606580993	0.047390225
Uncharacterized, pseudogene	-1.486817641	0.527254078	0.037407303
Uncharacterized, pseudogene	-1.61925242	0.496738348	0.011992146
Uncharacterized, pseudogene	-4.133341548	0.404714716	7.45E-22
Uncharacterized, pseudogene	1.44665662	0.267840336	2.56E-06
Uncharacterized, pseudogene	1.666816881	0.492924748	0.008470791
Uncharacterized, pseudogene	-1.835723035	0.564669005	0.01226702

Y\_RNA, miscellaneous RNA

-1.398784203 0.480023042

0.0296586135

**Table S2**

Gene Name	log <sub>2</sub> foldchange	FDR <i>p</i> value	Antigen Presentation Pathway	Hepatic Fibrosis/Hepatic Stellate Cell Activation	Atherosclerosis Signaling	Allograft Rejection Signaling	OX40 Signaling	CDC42 Signaling	Dendritic Cell Maturation	Th1 Pathway	B Cell Development	Th2 Pathway
IQGAP2	1.01	5.18E-06					X					
CD74	2.27	4.72E-38	X									
HLA-DPA1	1.44	7.05E-10	X		X	X	X		X		X	
HLA-DPB1	1.74	1.29E-17	X		X	X	X		X		X	
HLA-DMA	1.44	3.12E-09	X		X	X	X	X	X	X	X	X
HLA-DMB	1.61	1.67E-14	X		X	X	X	X	X	X	X	X
HLA-DQA1	1.30	4.14E-07	X		X	X	X	X	X	X	X	X
HLA-DRB5	1.79	3.18E-17	X		X	X	X	X	X	X	X	X
COL18A1	1.10	6.55E-13		X	X				X			
COL1A1	1.53	1.37E-11		X	X				X			
COL3A1	1.52	1.02E-10		X	X				X			
VCAM1	1.18	8.49E-09		X	X							
CD14	1.25	3.73E-07		X								
FN1	1.24	2.33E-12		X								
MMP2	1.86	9.46E-24		X								
PDGFRA	-1.74	8.01E-28		X								
LYZ	1.42	6.95E-11			X							
MSR1	1.15	1.59E-05			X							
SELPLG	-1.93	3.77E-30			X							



Gene Name	log <sub>2</sub> foldchange	FDR <i>p</i> value	Neuroinflammation Signaling Pathway	Hepatic Fibrosis / Hepatic Stellate Cell Activation	Granulocyte Adhesion and Diapedesis	Amyotrophic Lateral Sclerosis Signaling	Glutamate Receptor Signaling	Complement System	TREM1 Signaling	Antigen Presentation Pathway	Th1 and Th2 Activation Pathway	Type I Diabetes Mellitus Signaling
IL1RL1	1.77	2.92E-02	X	X					X		X	
NGFR	1.97	2.99E-04	X	X								X
TNFRSF1B	1.22	1.81E-05	X	X								X
IL1A	2.64	2.17E-10	X	X								
MMP2	2.89	6.46E-28	X	X								
CXCL8	4.23	4.76E-15	X	X	X				X			
CCL2	4.68	6.47E-54	X	X	X				X			
TNF	2.38	1.98E-04	X	X	X				X			X
BCL2	1.18	4.26E-04	X	X		X						X
IL1R1	1.37	1.28E-10	X	X	X	X						X
TNFRSF1A	1.15	3.34E-06	X	X	X							X
MMP9	2.53	8.50E-04	X	X	X							
VCAM1	1.53	2.90E-07	X	X	X							
CD40	1.09	1.42E-04	X	X					X		X	
IL10	1.73	1.63E-02	X	X					X		X	
TGFBR2	1.20	1.87E-05	X	X							X	
FAS	2.52	9.68E-16	X	X								X
CCL3	3.44	3.57E-08	X		X				X			
CXCL10	2.27	2.23E-06	X		X							
BIRC3	1.08	3.85E-02	X			X						
CASP1	2.05	2.74E-14	X			X			X			
GRIN1	-1.66	2.49E-02	X			X	X					
GRIN2A	-1.74	2.64E-02	X			X	X					
GRIN2B	-1.74	1.81E-03	X			X	X					
GRIN3A	-1.30	2.42E-03	X			X	X					
SLC1A2	-2.17	3.19E-18	X			X	X					
NLRP3	1.22	1.52E-03	X						X			
TLR2	2.16	4.60E-15	X						X			
TLR5	1.86	1.63E-06	X						X			
TLR8	1.87	4.94E-13	X						X			
TYROBP	1.63	8.94E-08	X						X			

PIK3CG	1.46	2.11E-05	X	X		X	
PIK3R5	1.18	5.19E-03	X	X		X	
CD86	1.11	3.53E-03	X		X	X	X
CD3D	2.21	1.76E-03				X	X
CD3E	1.51	4.65E-02				X	X
IRF1	1.01	1.60E-05				X	X
SOCS3	3.24	2.19E-11				X	X
HLA-A	1.28	2.72E-05	X		X	X	X
HLA-DMA	3.23	4.85E-27	X		X	X	X
HLA-DMB	3.04	1.51E-30	X		X	X	X
HLA-DOA	3.03	1.02E-11	X		X	X	X
HLA-DQA1	3.82	1.80E-23	X		X	X	X
HLA-DRB5	2.83	6.86E-16	X		X	X	X
HLA-DPA1	3.49	4.22E-53			X	X	
HLA-DPB1	3.90	1.80E-39			X	X	
HLA-F	1.30	1.88E-04			X		X
CD74	2.95	7.33E-35			X		
MR1	1.44	1.63E-07			X		
PSMB9	1.13	2.71E-06			X		
PSMB8	1.10	5.33E-05			X		
B2M	1.44	6.33E-11	X		X		
IRS1	-1.16	8.35E-03	X			X	
JUN	1.33	5.50E-07	X			X	
NFATC2	1.07	5.12E-03	X			X	
CASP8	1.18	9.95E-06	X				X
GAD1	-1.38	3.90E-02	X				X
MAPK11	-1.21	1.91E-02	X				X
MAPK13	-1.76	4.84E-03	X				X
CD200R1	3.13	1.55E-13	X				
CX3CR1	-1.58	6.81E-05	X				
CYBB	2.49	4.82E-20	X				
FOS	2.05	7.83E-06	X				
GABBR2	-1.94	1.39E-03	X				
GABRA1	-1.53	4.04E-02	X				
GABRA3	-1.89	2.65E-03	X				
GABRA4	-1.41	1.53E-02	X				
GABRB2	-1.67	7.56E-03	X				
GABRB3	-2.14	1.49E-04	X				
GABRD	-1.77	2.29E-02	X				
GABRG1	-1.00	1.78E-03	X				
GABRG2	-1.57	4.87E-02	X				
HMOX1	1.48	3.35E-05	X				
KCNJ3	-1.81	5.51E-03	X				
KCNJ6	-1.79	6.22E-03	X				
NCF2	2.35	2.17E-13	X				
NGF	-1.22	4.76E-02	X				
PLA2G2D	2.72	2.61E-04	X				

PLA2G4C	1.13	7.29E-03	X				
PRKCG	-1.49	2.60E-02	X				
PYCARD	1.41	5.91E-05	X				
TREM2	1.74	1.17E-07	X				
IGF1	-1.38	3.81E-03	X	X			
IL10RA	1.58	1.47E-09	X				X
AGTR1	1.71	2.92E-02	X				
CD14	2.87	1.58E-17	X				
COL19A1	-1.47	3.25E-03	X				
COL24A1	-1.12	1.55E-02	X				
COL3A1	1.23	5.91E-07	X				
COL4A1	1.32	4.37E-11	X				
COL4A3	-1.58	3.32E-05	X				
COL4A4	-1.58	1.89E-04	X				
COL8A2	1.09	6.08E-03	X				
EDNRB	-1.44	1.76E-09	X				
EGF	1.83	4.18E-04	X				
EGFR	-1.39	6.70E-11	X				
FGF1	1.11	2.81E-05	X				
FN1	1.45	1.57E-09	X				
HGF	2.74	4.75E-29	X				
IFNAR2	1.05	8.14E-07	X				
IGFBP4	2.17	7.54E-10	X				
KLF6	1.45	9.97E-13	X				
KLF12	-1.00	3.56E-07	X				
LY96	2.75	1.94E-09	X				
PDGFB	1.41	3.67E-10	X				
PDGFRA	-5.88	9.79E-78	X				
SERPINE1	2.32	6.10E-06	X				
TIMP1	2.36	4.95E-08	X				
ITGB2	1.60	1.46E-05		X	X		X
C5AR1	1.26	4.56E-05		X	X		
CCL7	3.81	9.74E-10		X		X	
CXCR4	2.60	2.90E-10		X			X
CCL4	2.28	3.38E-04		X			
CCL8	2.28	9.87E-04		X			
CCL18	2.27	3.85E-03		X			
CD99	1.17	6.95E-04		X			
CXCL1	1.50	1.26E-02		X			
CXCL16	1.12	1.95E-06		X			
CXCR2	1.56	1.21E-02		X			
FPR3	3.36	2.17E-11		X			
HRH2	-1.56	1.51E-02		X			
ICAM2	1.33	1.08E-05		X			
IL36G	2.47	1.29E-03		X			
ITGA4	2.62	9.24E-08		X			
ITGAL	1.99	3.07E-08		X			



MMP14	1.75	3.63E-08	X			
MMP15	-1.11	1.75E-06	X			
MMP16	-3.06	2.59E-21	X			
MMP17	-2.38	2.00E-05	X			
MMP24	-1.13	1.28E-02	X			
MMP25	1.63	2.38E-02	X			
MMP28	-1.17	3.67E-04	X			
PECAM1	1.53	4.30E-17	X			
SDC1	2.23	5.66E-04	X			
CACNA1A	-2.07	4.57E-09		X		
CACNA1C	-1.13	4.98E-03		X		
CACNA1E	-1.30	4.39E-02		X		
CAPN6	-2.23	4.96E-05		X		
CASP12	1.61	3.46E-04		X		
GPX1	3.17	6.83E-36		X		
HECW1	-1.82	2.45E-03		X		
NEFH	-1.72	9.21E-03		X		
NEFL	-1.67	4.12E-02		X		
NEFM	-1.42	3.12E-02		X		
PRPH	2.65	2.86E-04		X		
CALM1	-1.10	6.15E-05			X	
CAMK4	-1.58	1.04E-02			X	
GRM1	-1.47	4.12E-02			X	
GRM2	-1.92	6.81E-03			X	
GRM4	-1.31	3.02E-02			X	
GRM5	-1.88	2.00E-04			X	
GRM7	-1.33	8.05E-03			X	
HOMER1	-1.27	2.90E-06			X	
SLC17A7	-1.77	1.99E-02			X	
C2	2.86	9.77E-26				X
C7	1.37	3.91E-05				X
C1QA	2.44	2.73E-16				X
C1QC	2.67	4.80E-20				X
C1R	2.15	2.84E-10				X
C1S	2.20	1.05E-09				X
C3AR1	1.46	3.37E-07				X
C4BPB	-1.77	9.38E-03				X
CD59	1.18	5.62E-12				X
CFB	2.62	3.63E-34				X
CFD	1.12	7.29E-03				X
CFI	1.30	7.08E-05				X
CR1	2.55	1.50E-05				X
SERPING1	1.21	2.49E-05				X
CIITA	2.26	4.19E-16			X	X
NLRC5	1.36	1.72E-06			X	X
CASP5	2.60	3.09E-07			X	
CD83	1.95	1.87E-09			X	

FCGR2B	6.11	3.01E-39	X	
LAT2	1.14	1.38E-03	X	
TREM1	5.84	5.05E-25	X	
STAT5A	1.09	3.12E-05	X	X
CD274	1.08	1.86E-02		X
HAVCR2	1.66	5.12E-04		X
IKZF1	1.18	1.03E-03		X
IL24	1.70	4.41E-02		X
IL10RB	1.27	6.71E-06		X
IL2RG	1.15	3.13E-03		X
LGALS9	2.49	1.06E-08		X
PTGDR2	-1.29	3.50E-04		X
RUNX3	2.73	4.59E-05		X
SPI1	1.62	1.20E-05		X
STAT6	1.42	4.34E-09		X
VAV1	1.72	8.44E-06		X
FCER1G	2.22	2.75E-12		X
GZMB	2.49	3.84E-04		X
NFKBID	1.40	2.72E-03		X
PRF1	1.75	6.47E-03		X



CFB

1.21

1.96E-07 X

Fig. S1

