

Table S1. Genes up- or down-regulated greater than or equal to threefold after treatment of mouse macrophages with DMXAA^a

Gene symbol	GenBank accession no.	Description	Fold change: BL/6 ^b	Fold change: IFN β ^{-/-} ^c	WT/KO ^d
<i>IL6</i>	NM_031168	Interleukin 6 (interferon, beta 2)	564.6	13.5	41.8
<i>IFNB1</i>	NM_010510	Interferon, beta 1, fibroblast	194.1	1.1	178.6
<i>MX1</i>	BC007127	Myxovirus (influenza virus) resistance 1, interferon-inducible protein p78 (mouse)	191.4	9.3	20.7
<i>CCL2</i>	U50712	Chemokine (C-C motif) ligand 2	125.6	5.8	21.7
<i>LHX2</i>	NM_010710	LIM homeobox 2	92.1	7.8	11.9
<i>TNFRSF11B</i>	AB013898	Tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin)	90.5	100	0.9
<i>MX2</i>	M21039	Myxovirus (influenza virus) resistance 2 (mouse)	85.3	1.1	74.3
<i>IFNA6</i>	NM_010504	Interferon, alpha 6	77.7	9.1	8.6
<i>CXCL10</i>	NM_021274	Chemokine (C-X-C motif) ligand 10	69.1	21.2	3.3
<i>TGTP</i>	NM_011579	T cell-specific GTPase	60.2	1.6	38.6
<i>LOC129607</i>	NM_020557	Hypothetical protein LOC129607	58.9	7.8	7.6
<i>SOCS1</i>	AB000710	Suppressor of cytokine signaling 1	57.5	3.4	16.7
<i>IFNG</i>	K00083	Interferon, gamma	46.5	59.4	0.8
<i>OASL</i>	AB067533	2'-5'-oligoadenylate synthetase-like	35.6	19.7	1.8
<i>IFIT1</i>	NM_008331	Interferon-induced protein with tetratricopeptide repeats 1	33.5	22.2	1.5
<i>IFNA5</i>	NM_010505	Interferon, alpha 5	32.4	2.5	12.9
<i>IFIT3</i>	NM_010501	Interferon-induced protein with tetratricopeptide repeats 3	32.2	10.5	3.1
<i>IFIT2</i>	NM_008332	Interferon-induced protein with tetratricopeptide	27.1	14.3	1.9

		repeats 2			
<i>PGF</i>	NM_008827	Placental growth factor, vascular endothelial growth factor-related protein	25.3	20.2	1.3
<i>IIGP1</i>	BM239828	Interferon inducible GTPase 1	21.9	1.2	18.7
<i>IFI203</i>	BC008167	Interferon activated gene 203	21.9	3.4	6.4
<i>ISG20</i>	BC022751	Interferon stimulated exonuclease gene 20kDa	20.9	3.4	6.1
<i>SECTM1</i>	BC010462	Secreted and transmembrane 1	17.7	1.2	15.0
<i>CCL13</i>	AF065933	Chemokine (C-C motif) ligand 13	16.8	5.8	2.9
<i>RSAD2</i>	NM_021384	Radical S-adenosyl methionine domain containing 2	15.5	7.8	2
<i>ZBP1</i>	NM_021394	Z-DNA binding protein 1	15.4	4.2	3.7
<i>CCL4</i>	AF128218	Chemokine (C-C motif) ligand 4	15.1	8.1	1.9
<i>IL15RA</i>	NM_133836	Interleukin 15 receptor, alpha	14.9	3.3	4.5
<i>IGTP</i>	NM_018738	Interferon gamma induced GTPase	13.7	1.2	11.2
<i>OAS1B</i>	BC012877	2'-5' oligoadenylate synthetase 1B	12.7	2.1	6.2
<i>USP18</i>	NM_011909	Ubiquitin specific peptidase 18	11.6	1	11.4
<i>CD86</i>	NM_019388	CD86 molecule	11.1	6	1.8
<i>GBP6</i>	BC010229	Guanylate binding protein family, member 6	10.8	6.8	1.6
<i>FGL2</i>	BF136544	Fibrinogen-like 2	10.6	3.6	2.9
<i>CD40</i>	AI385482	CD40 molecule, TNF receptor superfamily member 5	10.3	1.3	7.9
<i>TREX1</i>	NM_011637	Three prime repair exonuclease 1	10.2	5.2	2
<i>IFIH1</i>	AY075132	Interferon induced with helicase C domain 1	10.1	7	1.4
<i>CCL7</i>	AF128193	Chemokine (C-C motif) ligand 7	9.6	2.9	3.2
<i>C9ORF26</i>	NM_133775	Chromosome 9 open reading frame 26 (NF-HEV)	9.1	4.4	2.1
<i>PVRL4</i>	AK004821	Poliovirus receptor-related 4	9	4.3	2.1
<i>TLR3</i>	NM_126166	Toll-like receptor 3	8.8	1.3	6.8

<i>RGC32</i>	NM_025427	Response gene to complement 32	8.7	3	2.9
<i>TRIM21</i>	BC010580	Tripartite motif-containing 21	8.4	2.6	3.2
<i>DAXX</i>	NM_007829	Death-associated protein 6	7.9	1.6	4.9
<i>ABCB1</i>	M30697	ATP-binding cassette, sub-family B (MDR/TAP), member 1	7.9	7.1	1.1
<i>GBP4</i>	NM_018734	Guanylate binding protein 4	7.5	4.6	1.6
<i>IL15</i>	NM_008357	Interleukin 15	7.2	1.7	4.3
<i>TNF</i>	NM_013693	Tumor necrosis factor (TNF superfamily, member 2)	6.9	1.4	5
<i>IRF1</i>	NM_008390	Interferon regulatory factor 1	6.9	1.2	5.9
<i>CITED2</i>	NM_010828	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2	6.8	1.5	4.6
<i>TPST1</i>	NM_013837	Tyrosylprotein sulfotransferase 1	6.7	6.1	1.1
<i>IRGM</i>	NM_008326	Immunity-related GTPase family, M	6.6	2.3	2.9
<i>NT5C3</i>	AV037573	5'-nucleotidase, cytosolic III	6.4	1.8	3.6
<i>CCND2</i>	AV310588	Cyclin D2	6.4	2	3.2
<i>LGP2</i>	AF316999	Likely orthologue of mouse D11lgp2	6.4	2.7	2.4
<i>PVRL2</i>	BC009088	Poliovirus receptor-related 2 (herpes virus entry mediator B)	6.4	3.1	2.1
<i>IFI205</i>	M74124	Interferon activated gene 205	6.4	1.8	3.5
<i>CD274</i>	NM_021893	CD274 molecule	6	1	5.9
<i>PELI1</i>	NM_023324	Pellino homologue 1 (<i>Drosophila</i>)	5.9	4.3	1.4
<i>GYPC</i>	BC027408	Glycophorin C (Gerbich blood group)	5.9	4.4	1.3
<i>5830484A20RIK</i>	AU017788	RIKEN cDNA 5830484A20 gene	5.7	4	1.4
<i>ARL4C</i>	BI964400	ADP-ribosylation factor-like 4C	5.7	5.5	1
<i>CCRN4L</i>	AF199491	CCR4 carbon catabolite repression 4-like (<i>Saccharomyces cerevisiae</i>)	5.7	1.6	3.6
<i>CCL3</i>	NM_011337	Chemokine (C-C motif) ligand 3	5.6	1.4	4.1

<i>CCL5</i>	NM_013653	Chemokine (C-C motif) ligand 5	5.3	3.7	1.4
<i>PTX3</i>	NM_008987	Pentraxin-related gene, rapidly induced by IL-1 beta	5.3	1.3	4
<i>PPP1R15A</i>	NM_008654	Protein phosphatase 1, regulatory (inhibitor) subunit 15A	5.3	1.6	3.4
<i>TNFSF9</i>	NM_009404	Tumor necrosis factor (ligand) superfamily, member 9	5.1	1.7	3
<i>GBP2</i>	NM_010260	Guanylate binding protein 2, interferon-inducible	4.8	1.6	3.1
<i>MAFK</i>	NM_010757	V-maf musculoaponeurotic fibrosarcoma oncogene homologue K (avian)	4.7	1.6	3
<i>MARCH5</i>	AK009364	Membrane-associated ring finger (C3HC4) 5	4.7	1.9	2.5
<i>NMI</i>	BC002019	N-myc (and STAT) interactor	4.5	1.6	2.9
<i>IL12B</i>	NM_008352	Interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40)	4.4	1.4	3.2
<i>IFI16</i>	NM_008329	Interferon, gamma-inducible protein 16	4.3	2.7	1.6
<i>P4HA1</i>	AI314028	Procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide I	4.3	3.4	1.2
<i>TRIM25</i>	AI746456	Tripartite motif-containing 25	4.2	2.3	1.8
<i>ARHGEF3</i>	BC012262	Rho guanine nucleotide exchange factor (GEF) 3	4.2	2.1	2.1
<i>TLK2</i>	NM_011903	Tousled-like kinase 2	4.2	1.4	3
<i>MOV10</i>	NM_008619	Mov10, Moloney leukemia virus 10, homologue (mouse)	4.2	1.2	3.4
<i>NP</i>	AK008143	Nucleoside phosphorylase	4.1	1.7	2.5
<i>IRF2</i>	NM_008391	Interferon regulatory factor 2	4.1	1.2	3.5

<i>PARP9</i>	NM_030253	Poly (ADP-ribose) polymerase family, member 9	4	1.4	2.8
<i>BAMBI</i>	AF153440	BMP and activin membrane-bound inhibitor homologue (<i>Xenopus laevis</i>)	4	1.5	2.7
<i>SDC4</i>	BC005679	Syndecan 4 (amphiglycan, ryudocan)	3.9	3.3	1.2
<i>SAP30</i>	NM_021788	Sin3A-associated protein, 30kDa	3.9	1.6	2.4
<i>PLAU</i>	X02389	Plasminogen activator, urokinase	3.9	2.3	1.7
<i>STAT2</i>	AF088862	Signal transducer and activator of transcription 2, 113kDa	3.9	1.7	2.3
<i>CDC6</i>	NM_011799	CDC6 cell division cycle 6 homologue (<i>S.</i> <i>cerevisiae</i>)	3.8	3.2	1.2
<i>P8</i>	NM_019738	P8 protein (candidate of metastasis 1)	3.7	1.3	2.9
<i>ASF1A</i>	AK007804	ASF1 anti-silencing function 1 homologue A (<i>S.</i> <i>cerevisiae</i>)	3.7	2.1	1.8
<i>IFI35</i>	BC008158	Interferon-induced protein 35	3.6	1.1	3.3
<i>SLC7A2</i>	M62838	Solute carrier family 7 (cationic amino acid transporter, y+ system), member 2	3.6	1.8	2
<i>SOAT1</i>	BC025091	Sterol O-acyltransferase (acyl-Coenzyme A: cholesterol acyltransferase) 1	3.6	1.9	1.8
<i>AFTIPHILIN</i>	BC004630	Aftiphilin protein	3.5	1.2	3
<i>APOBEC3F</i>	NM_030255	Apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F	3.5	1.4	2.5
<i>VCAM1</i>	NM_011693	Vascular cell adhesion molecule 1	3.4	1.6	2.1
<i>DSCR1</i>	AF282255	Down syndrome critical region gene 1	3.4	2.7	1.3
<i>TMOD3</i>	AK017725	Tropomodulin 3 (ubiquitous)	3.4	2.3	1.5
<i>TRIM34</i>	AF220142	Tripartite motif-containing 34	3.3	1.9	1.7
<i>RIPK2</i>	NM_138952	Receptor-interacting serine-threonine kinase 2	3.2	1.3	2.5
<i>SAV1</i>	BC019377	Salvador homologue 1 (<i>Drosophila</i>)	3.2	2.6	1.2
<i>ZNF313</i>	AF502145	Zinc finger protein 313	3.2	1.5	2.1

<i>BID</i>	NM_007544	BH3 interacting domain death agonist	3.2	2.9	1.1
<i>CCNE1</i>	NM_007633	Cyclin E1	3.2	2.9	1.1
<i>AKAP12</i>	NM_031185	A kinase (PRKA) anchor protein (gravin) 12	3.2	1.5	2.2
<i>KATNA1</i>	AK012319	Katanin p60 (ATPase-containing) subunit A 1	3.2	1.5	2.1
<i>TOR1AIP1</i>	BC010841	Torsin A interacting protein 1	3.1	1.3	2.4
<i>CDKN1A</i>	NM_007669	Cyclin-dependent kinase inhibitor 1A (p21, Cip1)	3.1	1.1	2.7
<i>REL</i>	NM_009044	V-rel reticuloendotheliosis viral oncogene homologue (avian)	3.1	1.1	2.8
<i>FGD6</i>	NM_053072	FYVE, RhoGEF and PH domain containing 6	3	2	1.5
<i>ADRB2</i>	AV083350	Adrenergic, beta-2-, receptor, surface	-3.2	1.7	1.9
<i>CEBPB</i>	AB012278	CCAAT/enhancer binding protein (C/EBP), beta	-3.3	1.9	1.7
<i>CDC7</i>	AB018574	CDC7 cell division cycle 7 (<i>S. cerevisiae</i>)	-3.4	1.6	2.2
<i>BHLHB2</i>	NM_011498	Basic helix-loop-helix domain containing, class B, 2	-3.8	1.3	3
<i>CDC37L1</i>	BE824561	CDC37 cell division cycle 37 homologue (<i>S.</i> <i>cerevisiae</i>)-like 1	-3.8	2.2	1.7
<i>APBB1IP</i>	BC023110	Amyloid beta (A4) precursor protein-binding, family B, member 1 interacting protein	-3.9	1.8	2.2
<i>AMPD3</i>	D85596	Adenosine monophosphate deaminase (isoform E)	-3.9	2.7	1.5
<i>ARID3A</i>	NM_007880	AT rich interactive domain 3A (BRIGHT- like)	-4.1	2.5	1.6
<i>ATRX</i>	BB648845	Alpha thalassemia/mental retardation syndrome X-linked (RAD54 homologue, <i>S. cerevisiae</i>)	-4.2	2.6	1.6
<i>ACVR1B</i>	BQ043509	Activin A receptor, type IB	-4.5	2.3	1.9
<i>CREBBP</i>	BG076163	CREB binding protein (Rubinstein-Taybi syndrome)	-4.5	6.3	0.7
<i>CLCA1</i>	AF047838	Chloride channel, calcium activated, family	-4.8	1.9	2.5

		member 1			
<i>CD37</i>	BC004610	CD37 molecule	-5.2	1.1	4.7
<i>CYP1A2</i>	NM_009993	Cytochrome P450, family 1, subfamily A, polypeptide 2	-7	3.9	1.8
<i>2310043N10RIK</i>	AK018202	RIKEN cDNA 2310043N10 gene	-7.1	2.2	3.2
<i>BCL2</i>	NM_009741	B cell CLL/lymphoma 2	-7.5	1.4	5.4
<i>ABL1</i>	J02995	V-abl Abelson murine leukemia viral oncogene homologue 1	-8.4	1.5	5.6
<i>B3GAT3</i>	BB634613	Beta-1,3-glucuronyltransferase 3 (glucuronosyltransferase I)	-9	1.6	5.5
<i>CNR2</i>	NM_009924	Cannabinoid receptor 2 (macrophage)	-9.1	2.3	4
<i>ABLIM1</i>	BG065289	Actin binding LIM protein 1	-9.7	1.4	7.1
<i>AP2A2</i>	AK009735	Adaptor-related protein complex 2, alpha 2 subunit	-10.1	8.8	1.1
<i>CCNF</i>	NM_007634	Cyclin F	-10.6	2.4	4.4
<i>BACE1</i>	AK014390	Beta-site APP-cleaving enzyme 1	-11.5	3.7	3.2
<i>BCL2L1</i>	U10100	BCL2-like 1	-14	2.3	6
<i>C8ORF4</i>	BC016562	Chromosome 8 open reading frame 4	-35.4	4.1	8.7
<i>CYP1B1</i>	BI251808	Cytochrome P450, family 1, subfamily B, polypeptide 1	-44.3	5.9	7.5

^aPeritoneal macrophages were stimulated with DMXAA or medium alone for 3 h. Total RNA was isolated and used as starting material for microarray analysis. A greater than or equal to threefold increase or decrease between inducible and basal mRNA levels was set as the criteria for inclusion of a gene as modulated.

^bValues reflect the fold change in DMXAA-treated wild-type cells versus unstimulated wild-type cells.

^cValues reflect the fold change in DMXAA-treated IFN- β -deficient cells versus unstimulated wild-type cells.

^dRatio of fold change in DMXAA-treated wild-type versus IFN- β -deficient cells.