

Table S2. Genes in Raw267.4 cells differentially expressed between infection by Δ Pdh and WT

Gene ID	Log ₂ Fold-Change	P adj	Gene name	Description/Function
0000000325	1.8931	9.55E-07	Arvcf	Involved in protein-protein interactions at adherens junctions.
0000000386	1.0129	4.01E-16	Mx1	Correlated with FOXP3 and IL-10.
0000000392	1.4523	6.30E-06	Fap	Knockdown of FAP in CAF9 cells attenuated migration of TE-9 cells and macrophage-like cells and suppressed expression of CD163 and IL10.
0000001131	1.5862	2.14E-05	Timp1	A novel IL-10 signalling mechanism regulates TIMP-1 expression, wound healing and tissue repair.
0000003541	1.0145	6.48E-05	Ier3	May play a role in the ERK signaling pathway
0000003545	3.6876	1.12E-05	Fosb	Suppress systemic inflammatory response to endotoxin, dependent on CREB
0000006403	1.0274	1.70E-02	Adamts4	ADAMTS-4 increased the production of IL-10
0000006445	1.6952	3.82E-14	Epha2	EphA2 expression may regulate the progression to advanced atherosclerosis by regulating smooth muscle proliferation and extracellular matrix deposition
0000011008	1.1925	7.03E-09	Mcoln2	MCOLN2 belongs to the transient receptor potential (TRP) protein superfamily, which consists of gated, tetrameric cation channels with diverse physiological functions, particularly in sensory signaling.
0000014599	1.1464	2.28E-20	Csf1	In tumors, expression of CSF1 was correlated with M2-like macrophages. CSF-1 has therapeutic potential in tissue repair.
0000015396	1.0106	3.50E-04	Cd83	A specific marker for mature dendritic cells
0000016283	1.0528	1.43E-03	H2-M2	MHC class Ib antigen
0000016529	1.5056	9.07E-04	Il10	Human cytokine synthesis inhibitory factor (CSIF), is an anti-inflammatory cytokine
0000018925	1.6923	1.71E-03	Heatr9	Heatr9 is induced by influenza virus and RSV. Heatr9 knockdown during viral infection was shown to affect chemokine expression.
0000018930	1.1305	9.15E-04	Ccl4	Resveratrol improves CCL4-induced liver fibrosis in mouse by upregulating endogenous IL-10 to reprogramme macrophages phenotype from M(LPS) to M(IL-4).
0000020108	1.4567	5.57E-09	Ddit4	IL-10 suppresses mammalian target of rapamycin (mTOR) activity through the induction of an mTOR inhibitor, DDIT4. IL-10 inhibits mTORC1 signalling in a STAT3-DDIT4- dependent manner
0000020423	1.1469	7.33E-27	Btg2	Enhanced BTG2 induces G2/M cell cycle arrest and apoptotic
0000020826	1.3178	3.48E-28	Nos2	IL-10 and NOS2 modulate antigen-specific reactivity and nerve infiltration by T cells in experimental leprosy. Expressions of IL10 and NOS2 (iNOS) were negatively correlated (P<0.001).
0000021367	1.7272	9.44E-04	Edn1	Endothelin-1 (ET-1), which is up-regulated during tissue repair and fibrosis, induces lung fibroblasts to produce and contract extracellular matrix
0000024486	1.8345	7.99E-06	Hbegf	HB-EGF levels increase in response to different forms of injuries as well as stimuli, such as lysophosphatidic acid, retinoic acid
0000025491	2.0027	7.64E-09	Ifitm1	Ifitm1 (Interferon induced transmembrane protein 1)
0000025746	1.7658	1.41E-04	Il6	Functions in inflammation and the maturation of B cells.
0000026817	1.2800	7.22E-13	Ak1	Plays an important role in cellular energy homeostasis and in adenine nucleotide metabolism
0000026981	1.1022	7.33E-37	Il1rn	Interleukin 1 Receptor Antagonist, This protein inhibits the activities of interleukin 1, alpha (IL1A) and interleukin 1, beta (IL1B)
0000027219	1.1501	4.39E-04	Slc28a2	Uptake and salvage of purine nucleosides in kidney and other tissues
0000027398	1.8828	1.12E-04	Il1b	Potent proinflammatory cytokine
0000027399	2.0150	7.82E-05	Il1a	Cell-to-cell communication
0000028211	1.9485	4.40E-22	Trp53inp1	Regulates cell cycle progression and apoptosis, antioxidant
0000028270	1.0913	6.21E-04	Gbp2	Protective immunity against microorganisms, Inhibition of Stat3 pathway prevents GBP2-promoted FN1 induction and cell invasion.
0000028341	1.4138	2.10E-09	Nr4a3	NR4A3 expression is also increased at sites of neutrophilic inflammation
0000028602	1.4454	6.64E-10	Tnfrsf8	CD30L (=CD153): T and B cell activation, TNF receptor superfamily
0000028716	1.2066	1.24E-05	Pdzk1ip1	Cargo protein that transports membrane proteins from the endoplasmic reticulum, triggering local inflammation
0000028967	1.2466	4.37E-25	Errfi1	mig6/errfi-1, a negative regulator of the EGFR family
0000030748	1.1722	4.05E-09	Il4ra	A deletion of IL-4R α completely abrogates TB tissue pathology in these mice
0000031444	1.2707	1.89E-21	F10	Vitamin K-dependent coagulation factor X of the blood coagulation cascade
0000031779	1.0309	2.65E-04	Ccl22	High CCL22 controls had significantly elevated levels of anti-inflammatory II10 compared with low CCL22 controls.
0000032578	2.3870	1.21E-12	Cish	Cytokine-induced STAT inhibitor (CIS), also known as suppressor of cytokine signaling (SOCS), or STAT-induced STAT inhibitor (SSI), protein family.
0000032584	1.8159	3.82E-06	Mst1r	Macrophage Stimulating 1 Receptor

00000034394	1.4041	2.02E-05	Lif	LIF confers protection against endotoxemia induced by the bacterial endotoxin lipopolysaccharide (LPS) by enhancing interleukin 10 (IL10) and inhibiting tumor necrosis factor alpha (TNF α) synthesis and release by M ϕ s
00000034457	1.7854	1.16E-15	Eda2r	Ectodysplasin A2 Receptor, EDA: control of hair follicle, sweat gland, teeth development, TNF receptor superfamily
00000035042	1.1900	2.31E-02	Ccl5	CCL5-induced the elevation of IL-10 expression, on Ang II-induced 12-lipoxygenase (LO) and endothelin (ET)-1 expression
00000035356	1.1324	2.95E-03	Nfkbiz	NF-kappa-B inhibitor zeta, Studies in mouse indicate that this gene product is one of the nuclear I kappa B proteins and an activator of IL-6 production.
00000035373	1.1654	1.95E-07	Ccl7	A secreted chemokine which attracts macrophages during inflammation and metastasis
00000037447	1.3123	2.93E-06	Arid5a	AT-Rich Interaction Domain 5A, As RNA-binding protein involved in the regulation of inflammatory response by stabilizing selective inflammation-related mRNAs, such as IL6, STAT3 and TBX21. Arid5a controls IL-6 mRNA stability, which contributes to elevation of IL-6 level in vivo
00000038067	1.3985	1.63E-02	Csf3	Colony stimulating factor 3 (CSF3)
00000038179	1.2124	2.05E-03	Slamf7	CS1 (also known as CD319, CRACC and SLAMF7) was identified as an NK cell receptor regulating immune functions.
00000040026	1.5036	4.96E-04	Saa3	The presence of SAA3 in the inflamed colon mucosal serves to protect epithelial barrier in part through expansion of IL-22-producing neutrophils.
00000040264	1.1319	6.14E-03	Gbp2b	Infection caused a large increase of Gbp2b/Gbp1 and Gbp5 expression
00000040663	1.2317	3.49E-06	Ccl1	In mice, CLCF1 induces B-cell expansion, enhances humoral responses and triggers autoimmunity. CLCF1 is another member of the IL-6-type cytokine
00000041801	1.9090	1.99E-29	Phlda3	Tumor suppressor.
00000043421	1.0397	1.96E-20	Hilpda	Hypoxia-inducible Lipid Droplet-associated (HILPDA) Is
00000043953	1.1893	1.38E-04	Cerl2	Plays a critical role for the development of Th2 responses
00000044313	1.2662	2.70E-03	Mab2113	Mab-21 Like 3
00000044701	1.2467	2.71E-02	Il27	Pleiotropic cytokine capable of influencing both innate and adaptive immune responses. With anti- and pro-inflammatory activity
00000044786	1.0368	2.39E-04	Zfp36	Strikingly, loss of ZFP36 in vivo accelerated T cell responses to acute viral infection and enhanced anti-viral immunity.
00000046031	1.2534	7.51E-03	Fam26f	FAM26F (family with sequence similarity 26, member F) is a recently identified tetraspanin-like membrane glycoprotein which is predicted to make homophilic interactions and potential synapses between several immune cells
00000046733	1.1894	4.99E-07	Gprc5a	Tumor suppressor
00000048458	1.7762	4.28E-11	Fam212b	Induced In Neural Crest By AP2-Alpha Protein-Related Homolog
00000051379	1.4969	1.92E-36	Flrt3	Flrt3 is induced by bacterial infection, implicated in neurite outgrowth and cell adhesion
00000053113	1.2719	1.66E-03	Socs3	STAT-induced STAT inhibitor (SSI)
00000053318	1.3644	7.44E-03	Slamf8	Anti-inflammatory, Slamf8 is a negative regulator of Nox2 activity in macrophages
00000053846	2.0451	2.71E-03	Lipg	Endothelial lipase (LIPG), LIPG is naturally acknowledged to be a biological factor to the lipid metabolism and atherosclerosis
00000054203	1.1756	5.91E-08	Ifi205	Regulates immune signaling via transcriptional regulation of the inflammasome adapter ASC
00000054855	1.1527	7.84E-09	Rnd1	Rnd1 expression was found to be induced during inflammation in endothelial cells
00000058427	1.2694	1.60E-05	Cxcl2	Macrophage chemokines CXCL1/CXCL2 control the early stage of neutrophil recruitment during tissue inflammation.
00000060183	1.3732	4.66E-05	Cxcl11	Predominantly induced by interferon (IFN)- γ and share an exclusive chemokine receptor named CXC chemokine receptor 3 (CXCR3).
00000061878	1.0708	7.79E-08	Sphk1	Glucocorticoids attenuate inflammation in a murine model of ALI by synergistic upregulation of SphK1 gene expression in macrophages; The induction of both LIGHT and SPHK1 mRNA was dependent on IL-10
00000062345	1.4446	1.08E-03	Serp1b2	Protects macrophages from apoptosis; Macrophage expression of serpinB2 is upregulated by LPS through a mechanism involving CREB and NF κ B and is important for the maintenance of TLR4 activation, thereby preventing rapid macrophage death and premature cessation of the innate immune response; Recent studies have implicated an anti-inflammatory role for serpinB2 and it is considered to be part of the M2-associated gene
00000069662	1.8878	4.22E-07	Marcks	MARCKS constitutes 90% of all proteins synthesized in neutrophils in response to exposure to TNF- α or LPS; During the inflammatory response, MARCKS has also been shown to act as a major regulator of human neutrophil migration and adhesion
00000072844	1.2771	5.42E-04	i530011006Ri	Lysosomal, immune-related, and lipid metabolic genes
00000078763	1.0555	4.45E-03	Slnf1	SLFN11 specifically blocks the production of retroviruses such as HIV-1
00000079138	1.0495	5.24E-03	Gm8818	

00000081219	1.2494	2.77E-03	Bambi-ps1	BMP and activin membrane-bound inhibitor, pseudogene
00000085178	1.0772	2.07E-03	Kdm6bos	KDM1 lysine (K)-specific demethylase 6B
00000087263	1.1072	2.86E-02	Gm15726	
00000090231	1.0374	1.37E-06	Cfb	Complement factor B
00000105504	1.3606	9.41E-07	Gbp5	Overexpression of GBP5 inhibited virus replication by enhancing the expression of virus-induced interferon (IFN) and IFN-related effectors
00000108436	1.0419	1.23E-02	Gm44851	

¹Ensembl Mouse (GRCm39). https://useast.ensembl.org/Mus_musculus.

²Log₂-fold change of normalized mean hit counts derived from two independent experiments: Log₂(ΔPdh/WT).

³Wald test p value

⁴Benjamini-Hochberg false discovery rate adjusted p-value.