

Table S1. Gene names and fold change after IRI in WT mice

(a) Inflammatory Response

Gene	Fold Change	p-Value	Gene Name
Arb2	1.45	0.0112	arrestin, beta 2
Axl	1.45	0.0010	AXL receptor tyrosine kinase
Bcl3	1.59	0.0062	B cell leukemia/lymphoma 3
Birc3	1.48	0.0028	baculoviral IAP repeat-containing 3
C3	2.79	0.0085	complement component 3
Ccl2	3.61	0.0044	chemokine (C-C motif) ligand 2
Ccl22	1.60	0.0202	chemokine (C-C motif) ligand 22
Ccl3	1.99	0.0031	chemokine (C-C motif) ligand 3
Ccl5	2.43	0.0033	chemokine (C-C motif) ligand 5
Ccl7	1.93	0.0064	chemokine (C-C motif) ligand 7
Ccr1	1.34	0.0418	chemokine (C-C motif) receptor 1
Ccr2	2.50	0.0023	chemokine (C-C motif) receptor 2
Ccr5	1.93	0.0057	chemokine (C-C motif) receptor 5
Cd180	1.81	0.0037	CD180 antigen
Clec7a	2.59	0.0041	C-type lectin domain family 7, member a
Cfh	1.55	0.0136	complement component factor h
Cxcl1	1.61	0.0298	chemokine (C-X-C motif) ligand 1
Cxcl10	1.73	0.0027	chemokine (C-X-C motif) ligand 10
Cxcl11	1.36	0.0007	chemokine (C-X-C motif) ligand 11
Cxcl2	1.48	0.0183	chemokine (C-X-C motif) ligand 2
Cxcl3	1.50	0.0137	chemokine (C-X-C motif) ligand 3
Cxcr6	1.78	0.0002	chemokine (C-X-C motif) receptor 6
Ecm1	-1.57	0.0028	extracellular matrix protein 1
Elf3	1.46	0.0050	E74-like factor 3
F2rl1	1.43	0.0121	coagulation factor II (thrombin) receptor-like 1
Il1b	1.42	0.0058	interleukin 1 beta
Il1f6	2.15	0.0023	interleukin 1 family, member 6
Il34	2.23	0.0007	interleukin 34
Irf1	1.37	0.0010	interferon regulatory factor 1
Itgb6	-1.65	0.0000	integrin beta 6
Lck	1.29	0.0061	lymphocyte protein tyrosine kinase
Lxn	1.44	0.0003	latexin
Ly86	2.07	0.0060	lymphocyte antigen 86
Lyn	1.34	0.0023	Yamaguchi sarcoma viral (v-yes-1) oncogene homolog
Map3k1	1.50	0.0008	mitogen-activated protein kinase kinase kinase 1
Map3k14	1.31	0.0002	mitogen-activated protein kinase kinase kinase 14
Nfkb2	1.43	0.0037	nuclear factor of kappa light polypeptide gene enhancer in B cells 2, p49/p100
Nfkbie	1.46	0.0011	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, epsilon
Nfkbiz	1.39	0.0248	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, zeta
P2rx7	1.34	0.0104	purinergic receptor P2X, ligand-gated ion channel, 7
Pik3cg	1.56	0.0104	phosphoinositide-3-kinase, catalytic, gamma polypeptide
Ptafr	1.58	0.0008	platelet-activating factor receptor
Rps6ka4	1.42	0.0100	ribosomal protein S6 kinase, polypeptide 4
Sdc1	1.39	0.0202	syndecan 1
Slc11a1	1.48	0.0007	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1
Syk	1.31	0.0315	spleen tyrosine kinase
Ticam2	1.35	0.0025	toll-like receptor adaptor molecule 2
Tlr1	1.84	0.0001	toll-like receptor 1
Tlr11	1.31	0.0342	toll-like receptor 11
Tlr13	1.94	0.0069	toll-like receptor 13
Tlr2	1.34	0.0495	toll-like receptor 2
Tlr7	1.50	0.0076	toll-like receptor 7
Tlr8	2.32	0.0052	toll-like receptor 8
Tlr9	1.51	0.0003	toll-like receptor 9
Tnf	1.31	0.0194	tumor necrosis factor
Traf1	1.40	0.0022	TNF receptor-associated factor 1

(b) Hypoxia

Gene	Fold Change	p-Value	Gene Name
Aldoa	1.30	0.0352	aldolase A, fructose-bisphosphate
Anxa1	1.61	0.0086	annexin A1
Bhlhe40	1.49	0.0068	basic helix-loop-helix family, member e40
Bhlhe41	1.73	0.0097	basic helix-loop-helix family, member e41
Birc2	1.48	0.0038	baculoviral IAP repeat-containing 2
Cd14	2.00	0.0101	Cluster of differntitaion 14
Cd24a	1.49	0.0103	CD24a antigen
Cp	2.06	0.0030	ceruloplasmin
Cpeb4	-1.35	0.0009	cytoplasmic polyadenylation element binding protein 4
Csf1	1.34	0.0167	colony stimulating factor 1 (macrophage)
Dpp4	-1.30	0.0020	dipeptidylpeptidase 4
Edn1	2.21	0.0028	endothelin 1
Fgg	1.70	0.0104	fibrinogen gamma chain
Havcr1	7.11	0.0021	hepatitis A virus cellular receptor 1
Hmox1	1.45	0.0116	heme oxygenase (decycling) 1
Itgb2	1.63	0.0028	integrin beta 2
Itpr2	-1.32	0.0003	inositol 1,4,5-triphosphate receptor 2
Kcnma1	-1.34	0.0432	potassium large conductance calcium-activated channel, subfamily M, alpha member 1
Lcn2	4.62	0.0031	lipocalin 2
Mmp14	1.85	0.0012	matrix metallopeptidase 14 (membrane-inserted)
Mmp2	1.72	0.0126	matrix metallopeptidase 2
Muc1	2.01	0.0008	mucin 1, transmembrane
Myc	1.66	0.0034	myelocytomatosis oncogene
Ndrp1	-1.44	0.0015	N-myc downstream regulated gene 1
Nt5e	-1.36	0.0127	5' nucleotidase, ecto
Pld2	1.35	0.0015	phospholipase D2
Pygm	-1.33	0.0412	muscle glycogen phosphorylase
Serpine1	1.87	0.0024	serine (or cysteine) peptidase inhibitor, clade E, member 1
Vcam1	3.80	0.0011	vascular cell adhesion molecule 1

(c) Oxidative Stress

Gene	Fold Change	p-Value	Gene Name
Akr1c18	-3.04	0.0011	aldo-keto reductase family 1, member C18
Aldh1a1	2.07	0.0005	aldehyde dehydrogenase family 1, subfamily A1
Apoa4	-1.35	0.0090	apolipoprotein A-IV
ApoE	1.36	0.0175	apolipoprotein E
Arntl	-3.17	0.0004	aryl hydrocarbon receptor nuclear translocator-like
Car3	-2.91	0.0020	carbonic anhydrase 3
Cygb	2.07	0.0007	cytoglobin
Hgf	1.40	0.0366	hepatocyte growth factor
Hspb1	1.79	0.0047	heat shock protein beta 1 (HSP27)
Ncf2	1.34	0.0161	neutrophil cytosolic factor 2
Nqo1	1.58	0.0010	NAD(P)H dehydrogenase, quinone 1
Plk3	-1.71	0.0250	polo-like kinase 3
Prnp	1.41	0.0002	prion protein
Rbm11	1.69	0.0111	RNA binding motif protein 11
Slc25a24	1.76	0.0101	solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 24
Txnip	2.20	0.0176	thioredoxin interacting protein

(d) Fibrosis

Gene	Fold Change	p-Value	Gene Name
Cd44	2.40	0.0010	CD44 antigen
Col1a1	1.40	0.0105	collagen, type I, alpha 1
Col1a2	1.29	0.0277	collagen, type I, alpha 2
Col4a3	-1.43	0.0001	collagen, type IV, alpha 3
Col6a6	-1.55	0.0003	collagen, type VI, alpha 6
Fn1	1.81	0.0020	fibronectin 1
Itga4	1.37	0.0127	integrin alpha 4
Lamc2	1.36	0.0153	laminin, gamma 2
Mt1	1.35	0.0046	metallothionein 1
Mt2	1.35	0.0099	metallothionein 2
Mtss1	1.34	0.0027	metastasis suppressor 1
Nphs2	-1.45	0.0004	nephrosis 2, podocin
Pdgfra	1.41	0.0099	platelet derived growth factor receptor, alpha polypeptide
Ren1	-1.37	0.0370	renin 1 structural
Runx1	2.22	0.0004	runt related transcription factor 1
Spp1	1.57	0.0053	sphingosine-1-phosphate phosphatase 1
Tgfb1	1.33	0.0005	transforming growth factor, beta 1
Thbs1	1.41	0.0133	thrombospondin 1
Thbs2	1.92	0.0016	thrombospondin 2
Tnc	1.99	0.0093	tenascin C
Tnn	-1.33	0.0130	tenascin N
Tnr	-1.41	0.0401	tenascin R
Trpv5	1.54	0.0001	transient receptor potential cation channel, subfamily V, member 5
Vav3	1.31	0.0109	vav 3 oncogene