

Supplement Table 3: Inflammatory genes whose expression in 3d hypoxia is equal to or greater than 1.5 fold compared to normoxia in lungs. Analysis was performed using@Genespring 10.0 Software.

Gene Symbol	Gene Title	Entrez Gene	Fold Increase
Spp1	secreted phosphoprotein 1	25353	4.08
Timp1	tissue inhibitor of metalloproteinase 1	116510	1.46
Trp53	transformation related protein 53	24842	1.55
Gp1bb /// Sept5	glycoprotein Ib, beta polypeptid	116727	1.86
Gap43	growth associated protein 43	29423	1.57
Ccl2	chemokine (C-C motif) ligand 2	24770	3.07
Alas2	aminolevulinic acid synthase 2, erythroid	25748	6.19
Prph	peripherin	24688	2.89
Scg2	secretogranin II	24765	2.69
Gpnmb	glycoprotein (transmembrane) nmb	113955	1.46
Adamts1	a disintegrin-like and metallopeptidase (79252	2.15
Serpina3n	serine (or cysteine) peptidase inhibitor, clade A, member 3N	24795	7.70
Hspa1a /// Hspa1b	heat shock 70kD protein 1A	24472	1.63
Hnt	neurotrimin	50864	2.20
Fabp4	fatty acid binding protein 4, adipocyte	79451	2.22
Ltbp2	latent transforming growth factor beta binding protein 2	59106	1.91
Serpinb2	serine (or cysteine) peptidase inhibitor, clade B, member 2	60325	1.83
Serpine1	serine (or cysteine) peptidase inhibitor, clade E, member 1	24617	3.66
Mmp12	matrix metallopeptidase 12	117033	2.27
Emb	embigin	114511	2.17
Add2	adducin 2 (beta)	24171	22.11
Cspg4	chondroitin sulfate proteoglycan 4	81651	1.92
Lta	lymphotoxin A	25008	3.27
Fbn1	fibrillin 1	83727	1.55
Bmp2	bone morphogenetic protein 2	29373	7.89
Timp3	tissue inhibitor of metalloproteinase 3	25358	1.56
Prkcc	protein kinase C, gamma	24681	2.50
Reln	reelin	24718	3.27
Grem1	gremlin 1	50566	5.01
Il13ra2	interleukin 13 receptor, alpha 2	171060	1.79
Selp	selectin, platelet	25651	1.98
Ms4a2	membrane-spanning 4-domains, subfamily A, member 2	25316	1.50
Cdh13	cadherin 13	192248	2.65
Slc7a2	solute carrier family 7 (cationic amino acid transporter, y+ system), membe	64554	2.98
Slc4a1	solute carrier family 4 (anion exchanger), member 1	24779	13.56
Thy1	thymus cell antigen 1, theta	24832	1.54
Cebpa	CCAAT/enhancer binding protein (C/EBP), alpha	24252	2.33
Scn3a	sodium channel, voltage-gated, type III, alpha	497770	2.29
F13a1	coagulation factor XIII, A1 subunit	60327	3.90
Gas6	growth arrest specific 6	58935	1.54
Mcam	melanoma cell adhesion molecule	78967	1.55
Ada	adenosine deaminase	24165	1.78
Hmox1	heme oxygenase (decycling) 1	24451	1.62
C1qb	complement component 1, q subcomponent, beta polypeptide	29687	3.76
Srprb /// Trf	transferrin ///	24825	2.33
RT1-CE16	RT1 class I, CE16	414819	1.47
Ppbb	pro-platelet basic protein	246358	19.60
Cdh6	cadherin 6	25409	7.54
Il1r1	interleukin 1 receptor, type I	25663	1.86
Prlr	prolactin receptor	24684	3.33
Fntb	farnesyltransferase, CAAX box, beta	64511	2.27
Rsad2	radical S-adenosyl methionine domain containing 2	65190	4.50
Itga7	integrin alpha 7	81008	1.69
Il6st	interleukin 6 signal transducer	25205	1.74
Lamc1	laminin, gamma 1	117036	1.51
Jag2	jagged 2	29147	2.33
Nrcam	neuron-glia-CAM-related cell adhesion molecule	497815	1.60
Ptprf	protein tyrosine phosphatase, receptor type, F	360406	1.61
Itga6	integrin, alpha 6	114517	1.64
Tnfaip6	tumor necrosis factor alpha induced protein 6	84397	2.71
Sqstm1	sequestosome 1	113894	1.66
Csf2	colony stimulating factor 2 (granulocyte-macrophage)	116630	1.84
Vcan	versican	114122	2.17
Pf4	platelet factor 4	360918	1.94
Igfbp4	insulin-like growth factor binding protein 4	360622	1.54
Smardc3	SWI/SNF related, matrix associated, actin dependent regulator of chromati	296732	1.47
Gpr56	G protein-coupled receptor 56	260326	2.12
Ak3l1	adenylate kinase 3-like 1	29223	1.88
Emcn	endomucin	295490	1.48
C1qc	complement component 1, q subcomponent, C chain	362634	2.30
Mustn1	musculoskeletal, embryonic nuclear protein 1	290553	2.15
Col4a1 /// Col4a2_predicted	procollagen, type IV, alpha 1	290905	1.56
Anln	anillin, actin binding protein (scraps homolog, Drosophila)	307056	1.62
Cxd9	chemokine (C-X-C motif) ligand 9	246759	1.50
Racgap1_predicted	Rac GTPase-activating protein 1 (predicted)	315298	1.62
Reln	reelin	24718	2.46
Bat4 /// C2 /// C4a /// Cfb /// C	complement component 2 akinase 19	24231	1.50
Ceacam1	cerebral endothelial cell adhesion molecule 1	296616	1.56
F13a1	coagulation factor XIII, A1 subunit	60327	6.11
Cpxm2_predicted	carboxypeptidase X 2 (M14 family) (predicted)	293566	2.81
Wnt5b	wingless-related MMTV integration site 5B	282582	2.03
Cdh13	cadherin 13	192248	1.68
Cldn2_predicted	claudin 2 (predicted)	300920	16.96
Dsc2	desmocollin 2	291760	1.53

C1qa	complement component 1, q subcomponent, alpha polypeptide	298566	2.77
Tfpi2	tissue factor pathway inhibitor 2	286926	1.97
Hrc	histidine rich calcium binding protein	292905	2.26
Chia	chitinase, acidic	113901	4.07
Cmtm2a	CKLF-like MARVEL transmembrane domain containing 2A	307616	2.30
Aspn	asporin	306805	1.65
Ca2	carbonic anhydrase 2	54231	2.96
Plip	plasma membrane proteolipid	64364	1.68
Lpl	lipoprotein lipase	24539	1.50
Kng1 /// Kng2 /// MGC108747	kininogen 1 /// kininogen 2	24903	1.51
Npy	neuropeptide Y	24604	1.61
Ina	internexin neuronal intermediate filament protein, alpha	24503	1.49
Azgp1	alpha-2-glycoprotein 1, zinc	25294	1.50
Mepe	matrix extracellular phosphoglycoprotein with ASARM motif (bone)	79110	7.89
Acan	aggrecan	58968	1.78
Cdkn1a	cyclin-dependent kinase inhibitor 1A	114851	2.27
Ptprk	protein tyrosine phosphatase, receptor type, K, extracellular region	360302	1.52
Ncf1	neutrophil cytosolic factor 1	114553	1.56
Pnliprp2	pancreatic lipase-related protein 2	117554	1.99
Slc4a1	solute carrier family 4 (anion exchanger), member 1	24779	21.08
Nos2	nitric oxide synthase 2, inducible	24599	1.97
Sstr1	somatostatin receptor 1	25033	1.55
Id3	inhibitor of DNA binding 3	25585	1.64
Agt	angiotensinogen (serpin peptidase inhibitor, clade A, member 8)	24179	1.46
Lbp	lipopolysaccharide binding protein	29469	1.66
C1s	complement component 1, s subcomponent	192262	1.55
Vcan	versican	114122	2.40
Vcan	versican	114122	1.54
Acot2	acyl-CoA thioesterase 2	192272	1.68
Jub	ajuba	85265	1.89
Irga7	integrin alpha 7	81008	1.89
Vcan	versican	114122	1.68
Col4a2_predicted	procollagen, type IV, alpha 2 (predicted)	306628	1.59
Cxcl12	chemokine (C-X-C motif) ligand 12	24772	3.14
Cfd	complement factor D (adipsin)	54249	1.67
Col15a1	collagen, type XV, alpha 1	298069	1.78
Astn1	astrotactin 1	304900	1.98
Cit	Citron	83620	1.47
Olfml2b_predicted	olfactomedin-like 2B (predicted)	304960	2.01
Ank1	ankyrin 1, erythroid	306570	1.46
Ager /// Agpat1 /// Btnl7 /// Btr	advanced glycosylation end product-specific receptor	406159	1.61
Cadm3	cell adhesion molecule 3	360882	3.72
Olfml2b_predicted	olfactomedin-like 2B (predicted)	304960	1.80
Selp	selectin, platelet	25651	1.71
Col8a1_predicted	procollagen, type VIII, alpha 1 (predicted)	304021	1.65
Mog /// Olr1735_predicted ///	myelin oligodendrocyte glycoprotein	24558	1.63
Bmp2	bone morphogenetic protein 2	29373	8.58
Vwa1	von Willebrand factor A domain containing 1	298683	4.33
Srrm1_predicted	serine/arginine repetitive matrix 1 (predicted)	313620	1.67
Ccl21b	chemokine (C-C motif) ligand 21b (serine)	298006	1.80
Col15a1	collagen, type XV, alpha 1	298069	1.91
Hps5 /// Saa4	serum amyloid A 4	308598	2.70
Lingo4 /// Rorc	RAR-related orphan receptor C /// leucine rich repeat and Ig domain contai	368158	1.91
Alox12_predicted	arachidonate 12-lipoxygenase (predicted)	287454	1.77
LOC306805	Similar to asporin precursor	306805	1.65
Anxa9	annexin A9	689830	1.58
Mmp23	matrix metalloproteinase 23	94339	1.58
Rnd1	Rho family GTPase 1	362993	1.46
Clecsf6	C-type (calcium dependent, carbohydrate recognition domain) lectin, super	474143	2.95
Cttnbp2	cortactin binding protein 2	282587	1.64
Ptprk	protein tyrosine phosphatase,	360302	1.47
Elk3_predicted	ELK3, member of ETS oncogene family (predicted)	362871	1.89
C6	complement component 6	24237	4.67
Ccl24	chemokine (C-C motif) ligand 24	288593	2.18
Pcdh8	Protocadherin 8	64865	2.51
Notch1	Notch gene homolog 1 (Drosophila)	25496	2.00
Ccl9	chemokine (C-C motif) ligand 9	360579	1.78
Serpine1	serine (or cysteine) peptidase inhibitor,	24617	4.47
Mmp23	matrix metalloproteinase 23	94339	1.56
Pex16	peroxisome biogenesis factor 16	311203	1.85
LOC687992	similar to Serum amyloid A-3 protein precursor	687992	2.06
Yars2	tyrosyl-tRNA synthetase 2 (mitochondrial)	287924	1.48
Pcdha12	protocadherin alpha 12	116779	1.57
Dmp1	dentin matrix protein 1	25312	1.72
Tnfrsf11a_predicted	Tumor necrosis factor receptor s	498206	1.90
Aebp1_predicted	AE binding protein 1 (predicted)	305494	1.50
Lama5	laminin, alpha 5	140433	1.54
Frem3	Fras1 related extracellular matrix protein 3	307767	9.64