

Supplement Table 2: 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	1.45
Lum	lumican	81682	3.02
Acads	acyl-Coenzyme A dehydrogenase, short chain	64304	1.71
Cxcr7	chemokine (C-X-C motif) receptor 7	84348	1.64
Ccl2	chemokine (C-C motif) ligand 2	24770	2.53
Lox	lysyl oxidase	24914	1.55
Nr3c1	nuclear receptor subfamily 3, group C, member 1	24413	1.70
Adamts1	a disintegrin-like and metalloproteinase	79252	1.74
Gc	group specific component	24384	1.49
Serpinb2	serine (or cysteine) peptidase inhibitor, clade B, member 2	60325	18.08
Serpine1	serine (or cysteine) peptidase inhibitor, clade E, member 1	24617	1.51
Mmp12	matrix metalloproteinase 12	117033	2.27
Emb	embigin	114511	2.04
Pawr	PRKC, apoptosis, WT1, regulator	64513	1.51
C9	complement component 9	117512	1.60
Cxcl2	chemokine (C-X-C motif) ligand 2	114105	2.04
Birc5	baculoviral IAP repeat-containing 5	64041	2.46
Lmnb1	lamin B1	116685	1.64
Ghr	growth hormone receptor	25235	1.64
Bmp2	bone morphogenetic protein 2	29373	3.15
Inhba	inhibin beta-A	29200	4.39
RT1-Aw2	RT1 class Ib, locus Aw2	24737	2.09
Grem1	gremlin 1	50566	2.82
Bcl2l1	Bcl2-like 1	24888	4.16
Il7	interleukin 7	25647	2.02
Il13ra2	interleukin 13 receptor, alpha 2	171060	1.56
Tnfsf11	tumor necrosis factor (ligand) superfamily, member 11	117516	2.51
Selp	selectin, platelet	25651	5.97
Nrxn1	neurexin 1	60391	1.48
Wisp2	WNT1 inducible signaling pathway protein 2	29576	1.50
Mcpt8	mast cell protease 8	29269	1.85
Ereg	epiregulin	59325	1.46
Slc4a1	solute carrier family 4 (anion exchanger), member 1	24779	1.99
Avpr1a	arginine vasopressin receptor 1A	25107	1.50
Il8rb	interleukin 8 receptor, beta	29385	1.47
Serpin2	serine (or cysteine) peptidase inhibitor, clade I, member 2	171149	2.31
Nell2	NEL-like 2 (chicken)	81734	5.65
Fbn2	fibrillin 2	689008	2.78
RT1-Db1	RT1 class II, locus Db1	294270	2.30
Gpc2	glypican 2 (cerebroglycan)	171517	1.46
Calca	calcitonin/calcitonin-related polypeptide, alpha	24241	1.80
Ms4a2	membrane-spanning 4-domains, subfamily A, member 2	25316	2.07
Bcl2l11	BCL2-like 11 (apoptosis facilitator)	64547	1.49
Egfr	epidermal growth factor receptor	24329	1.52
Rsad2	radical S-adenosyl methionine domain containing 2	65190	1.75
Col12a1	procollagen, type XII, alpha 1	25683	2.00
Il6st	interleukin 6 signal transducer	25205	1.63
Cebpg	CCAAT/enhancer binding protein (C/EBP), gamma	25301	1.90
Ptprf	protein tyrosine phosphatase, receptor type, F	360406	1.80
Il1a	interleukin 1 alpha	24493	1.64
Nid1	Nidogen 1	25494	1.46
Ak3l1	adenylate kinase 3-like 1	29223	1.84
Dld	dihydropyrimidine dehydrogenase	298942	1.50
Mustn1	musculoskeletal, embryonic nuclear protein 1	290553	2.17
Anln	anillin, actin binding protein (scraps homolog, Drosophila)	307056	1.72
Ccne1	cyclin E1	25729	1.78
Racgap1_predicted	Rac GTPase-activating protein 1 (predicted)	315298	1.61
Lmnb1	Lamin B1	116685	1.47
Reln	reelin	24718	1.50
Nrtn	neurturin	84423	3.08

Dock7	dedicator of cytokinesis 7	313388	1.57
Vezt	vezatin, adherens junctions transmembrane protein	299738	1.81
Adamts7_predicted	a disintegrin-like and metallopeptidase	315879	1.52
Timp3	tissue inhibitor of metalloproteinase 3	25358	1.57
Lilrb4 /// LOC499078	leukocyte immunoglobulin-like receptor, subfamily B, member 4	292594 /// 499078	1.60
Il17b	interleukin 17B	116472	2.45
Hrc	histidine rich calcium binding protein	292905	1.51
Ica11	islet cell autoantigen 1-like	316432	1.57
Chia	chitinase, acidic	113901	2.91
Aspn	asporin	306805	2.13
Robo2	roundabout, axon guidance receptor, homolog 2 (Drosophila)	84409	1.65
Adam9	a disintegrin and metallopeptidase domain 9 (meltrin gamma)	290834	1.49
RGD1564327_predicted	similar to integrin alpha 8 (predicted)	364786	1.60
RGD1560732_predicted	similar to LIM and senescent cell antigen-like domains 1 (predicted)	499443	2.24
Pdk2	pyruvate dehydrogenase kinase, isoenzyme 2	81530	1.50
Kng1 /// Kng2 ///	kininogen 1 /// kininogen 2	24903 /// 25087 ///	1.96
Hif1a	hypoxia inducible factor 1, alpha subunit	29560	1.55
S100a9	S100 calcium binding protein A9 (calgranulin B)	94195	1.72
Arts1	type 1 tumor necrosis factor receptor shedding aminopeptidase regulator	80897	1.46
Ppp3cb	protein phosphatase 3, catalytic subunit, beta isoform	24675	1.47
Cxcl1	chemokine (C-X-C motif) ligand 1	81503	2.24
Rock2	Rho-associated coiled-coil containing protein kinase 2	25537	1.50
Tshr	thyroid stimulating hormone receptor	25360	1.73
Brca1	breast cancer 1	497672	4.07
Bcl2	B-cell leukemia/lymphoma 2	24224	1.54
Amelx	amelogenin X chromosome	29160	4.16
Slc4a1	solute carrier family 4 (anion exchanger), member 1	24779	2.19
Casp3	caspase 3, apoptosis related cysteine protease	25402	1.65
Mmp8	matrix metallopeptidase 8	63849	1.72
Mylpf	myosin light chain, phosphorylatable, fast skeletal muscle	24584	4.10
Alox15	arachidonate 15-lipoxygenase	81639	3.10
Bnip3	BCL2/adenovirus E1B 19 kDa-interacting protein 3	84480	2.20
C1s	complement component 1, s subcomponent	192262	1.80
Epor	erythropoietin receptor	24336	3.07
Kitl	kit ligand	60427	1.49
Vcan	versican	114122	1.72
Vcan	versican	114122	1.46
Cxcl12	chemokine (C-X-C motif) ligand 12	24772	1.90
Cit	Citron	83620	1.81
Olfml2b_predicted	olfactomedin-like 2B (predicted)	304960	1.90
Rom1	rod outer segment membrane protein 1	309201	1.54
Got2 /// LOC297793 ///	glutamate oxaloacetate transaminase 2, mitochondrial precursor (Transaminase A) (25721 /// 297793 //)	25721 /// 297793 //	1.51
Olfml2b_predicted	olfactomedin-like 2B (predicted)	304960	2.40
Smc3	structural maintenance of chromosomes 3	29486	2.71
Selp	selectin, platelet	25651	1.61
Col8a1_predicted	procollagen, type VIII, alpha 1 (predicted)	304021	1.58
Smarca2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfam	361745	1.76
Bmp2	bone morphogenetic protein 2	29373	3.59
Mmp9	matrix metallopeptidase 9	81687	1.56
Cbp	Csk binding protein	64019	1.56
Trpm7	Transient receptor potential-related protein, Chak	679906	1.86
			1.47
Cav2	caveolin 2	363425	1.93
Cd86	Cd86 antigen	56822	1.47
Mmp14	Matrix metallopeptidase 14 (membrane-inserted)	81707	1.64
Itgb1bp1_predicted	integrin beta 1 binding protein 1 (predicted)	298914	3.58
Sh2d1a	SH2 domain protein 1A	501502	1.80
LOC306805	Similar to asporin precursor	306805	3.14
Lilrc1	leukocyte immunoglobulin-like receptor	691533	1.71
RGD1311300	similar to T cell receptor V delta 6	364378	1.47
Tpd52_predicted	tumor protein D52 (predicted)	294900	1.69
Matr3	matrin 3	29150	1.70
Blm_predicted	Bloom syndrome homolog (human) (predicted)	308755	2.40
Cttnbp2	cortactin binding protein 2	282587	1.57
Fndc3a_predicted	fibronectin type III domain containing 3a (predicted)	306022	2.18
Traf6_predicted	Tnf receptor-associated factor 6 (predicted)	311245	1.55
Nusap1_predicted	nucleolar and spindle associated protein 1 (predicted)	311336	1.65
Smarca1_predicted	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfam	317575	2.33

C6	complement component 6	24237	3.15
Cxadr	coxsackie virus and adenovirus receptor	89843	18.84
Runx1t1	runx-related transcription factor 1; translocated to, 1 (cyclin D-related)	362489	2.22
LOC685468 /// Noc3l	nucleolar complex associated 3 homolog (S. cerevisiae)	361753 /// 685468	1.95
Steap4	STEAP family member 4	499991	1.79
Dsel	dermatan sulfate epimerase-like	297865	1.68
Kin	antigenic determinant of rec-A protein	689197	2.03
Exo1_predicted	exonuclease 1 (predicted)	305000	1.57
Asz1 /// Cav1 /// Cav2 ///	met proto-oncogene /// caveolin, caveolae protein 1	114487 /// 170578	2.68
Ilgav_predicted	integrin alpha V (predicted)	296456	1.52
Asz1 /// Cav1 /// Cav2 ///	met proto-oncogene of tumorigenicity 7 /// caveolin 2	114487 /// 170578	3.96
Zcchc11_predicted	zinc finger, CCHC domain containing 11 (predicted)	313481	1.61
Zeb2	zinc finger E-box binding homeobox 2	311071	1.63
Pcdh8	Protocadherin 8	64865	4.45
Cdh11	cadherin 11	84407	2.02
Mcts2	malignant T cell amplified sequence 2	689500	1.49
Hist1h2bc /// Hist1h2bh	histone cluster 1, H2b /// histone cluster 1,	306945 /// 361247	1.83
Il22ra2	interleukin 22 receptor, alpha 2	444986	1.86
Pcdhb22	protocadherin beta 22	307486	1.65
Tgfb2	Transforming growth factor, beta 2	81809	1.47
Zeb2	zinc finger E-box binding homeobox 2	311071	1.49
Cbl1_predicted	Casitas B-lineage lymphoma-like 1 (predicted)	314028	1.48
Yars2	tyrosyl-tRNA synthetase 2 (mitochondrial)	287924	1.77
Rasa1	RAS p21 protein activator 1	25676	1.74
Prss32_predicted	protease, serine, 32 (predicted)	302970	4.34
	Transcribed locus		2.68
Iitga6	Integrin, alpha 6	114517	1.70
Camp	cathelicidin antimicrobial peptide	316010	1.65
Blnk	B-cell linker	499356	1.74
Pcdha12	protocadherin alpha 12	116779	11.30
Matn3_predicted	Matrilin 3 (predicted)	313954	7.60
Eln	elastin	25043	1.83
Lama4	laminin, alpha 4	309816	1.76
Ndufa9	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 9	362440	2.48
			10.79
Apb2	amyloid beta (A4) precursor protein-binding, family B, member 2	305338	3.18
Ttyh1_predicted	tweety homolog 1 (Drosophila) (predicted)	292597	8.35
Tia1	cytotoxic granule-associated RNA binding protein 1	312510	2.31
Nlgn2	neuroligin 2	117096	1.53