

Supplement table 1. Sequences of the primers used for real-time RT-PCRs

Gene		Primer sequence (5 -- 3)
Cytokines		
Il4	F	ACAGGAGAAGGGACGCCAT
	R	GAAGCCCTACAGACGAGCTCA
Il5	F	AGCACAGTGGTGAAAGAGACCTT
	R	TCCAATGCATAGCTGGTGATTT
Il6	F	ACAAGTCGGAGGCTTAATTACACAT
	R	AATCAGAATTGCCATTGCACAA
Il9	F	GATGATTGTACCACACCGTG
	R	CCTTTGCATCTCTGTCTTCTGG
Il10	F	TTTGAATTCCTGGGTGAGAAG
	R	CACCTGCTCCACTGCCTTG
Il13	F	AGACCAGACTCCCCTGTGCA
	R	TGGGTCCTGTAGATGGCATTG
Response to stimuli		
Arg1	F	GGTGGAGAGGAGCTGGACA
	R	GTCTTTTGGAGAAAGGCGCT
Ccl8	F	TCCAGTCACCTGCTGCTTTC
	R	GGGGAGAACTTCCAGCTTTG
Ccl11	F	ATCCCAACTTCTGCTGCTT
	R	GCATCCTGGACCCACTTCTT
Ccl12	F	ACCCAGTCACGTGCTGTTA
	R	GGGGTCAGCACAGATCTCCT
Ccl17	F	CGAGAGTGCTGCCTGGATTA
	R	CTTTGGGGTCTGCACAGATG
Chi313	F	GCCATTGGAGGATGGAAGTT
	R	GGTACTGCCAGTCCAGGTT
Cxcl1	F	AGACCATGGCTGGGATTCAC
	R	CGACCATTCTTGAGTGTGGC
Cxcl5	F	GCCCCTTCCTCAGTCATAGC
	R	TTCCACCGTAGGGCACTGT
Cxcl13	F	TCTGGAAGCCCATTACACAAA
	R	AACTTCAGTTTTGGGGCAGC

Cxcr6	F	GATCTGGGGCCAAGTCATTT
	R	TTCGAGCATGAAGCAAGGTC
Itlna	F	GGCCAGAGGGAATTTACTGC
	R	TGGGAAGAATCCTCCTCCAC
Selp	F	GAAAGAAGTGGCAGCATGGA
	R	ATCAGCCCAGTTCTCAGCCT
Tff2	F	GCTGACACCCCACAACAGAA
	R	TTTGAAGTGGGTGGAAACA
Mucus production		
Clca3	F	ATGGTGA CTCAGGCCTCTCC
	R	TATTCAGGCTTTGCCTTCCA
Muc5ac	F	CCATGTCAGCTTCATCCCTG
	R	TTAGTGCTCCTTGGGTGCAG
Muc5b	F	GAGAGCGGGAAGGATGAGAG
	R	CATTCTTTGGCCATGTCCTG
Extracellular matrix remodeling		
Adam8	F	GTAGCCCCTGGACCTCCTTT
	R	AGTGGGAGGGCAGGGCTC
C1qa	F	TCACCAACCAGGAGAGTCCA
	R	AGATGCTGTCTGGCTTCAGTG
C1qb	F	AAAGGCGATTCTGGGGACTA
	R	TGGAAGGTGTTCTGGGCATA
C1qg	F	ACCCTCAGGGGCATTACAAC
	R	ACGCTGTTGGAGCCCTCTAT
Fetub	F	CTGCATCCTCTGGGCTGTAA
	R	CTCCCGAACATCATGCACTC
Serpina3n	F	AATGGAAGGTGCCCTTTGAC
	R	GAGGATGAACATGGCACTGG
Timp4	F	AGGTAGTCCCTGCCAGCAAA
	R	GATTCAGGCTCTCCCTCTGC
Internal control		
Gapdh	F	GGCATGGACTGTGGTCATGA
	R	TTCACCACCATGGAGAAGGC

F= Sequence from sense strands; R = sequence from anti-sense strands.

Supplement table 2. A list of differentially regulated genes in the OVA-treated mice using cutoff point of 1.5-fold change and above ($p < 0.05$ with correction for multiple testing)

Gene symbol	GenBank accession No.	Gene description	Fold change				GeneCards
			acute		chronic		
			04 h	24 h	4 W	6 W	
RESPONSE TO STIMULI							
Serpina3n	NM_009252	serine (or cysteine) proteinase inhibitor, clade A, member 3N	5.39*	5.00*	1.18	1.13	AP
C1qg	NM_007574	complement component 1, q subcomponent, gamma polypeptide	1.85*	2.50*	1.41	1.44*	AI, AL, AS, BA, IE, IN
Cxcl5	NM_009141	chemokine (C-X-C motif) ligand 5	8.70*	4.32	1.68	1.50	AI, AL, AS, BA, IE, IN
Ccl17	NM_011332	chemokine (C-C motif) ligand 17	6.00*	1.25	1.13	-1.01	AI, AL, AS, BA, IN
Ccl8	NM_021443	chemokine (C-C motif) ligand 8	11.49*	12.71*	2.00	5.62*	AL, AS
Fcgr2b	BM224327	Fc receptor, IgG, low affinity IIb	3.12*	2.33*	1.32	1.69*	AL, AS, IE, IG, IN
Cd14	NM_009841	CD14 antigen	4.28*	1.72*	1.14	1.15	AL, IN, BA, IE
Ctla4	NM_009843	cytotoxic T-lymphocyte-associated protein 4	4.85*	1.41	2.48	1.84	AL, AS, BA, BH, IE, IN, IR
Icos	AB023132	inducible T-cell co-stimulator	5.41*	-1.52	1.24	1.42	AS, IR, IN
Selp	M72332	selectin, platelet	18.24*	3.06	1.40	-1.54	AS, IN
Tnfrsf1b	M60469	tumor necrosis factor receptor superfamily, member 1b	4.41*	-1.03	2.96	-1.07	AS, BA, IM, IN
Cxcl1	NM_008176	chemokine (C-X-C motif) ligand 1	6.31*	2.65	1.37	-1.38	BA, IN
Tff2	NM_009363	trefoil factor 2 (spasmolytic protein 1)	4.18	12.91*	2.44	3.09*	BA, IN
Ccl11	NM_011330	small chemokine (C-C motif) ligand 11	9.29*	5.57*	1.58	-1.68	IG, IR
Pfc	BB800282	properdin factor, complement	1.86	2.14*	1.37	-1.14	IG, IN
C1qa	NM_007572	complement component 1, q subcomponent, alpha polypeptide	1.52	2.03*	1.25	1.32	IM
Saa3	NM_011315	serum amyloid A 3	3.55*	5.14*	1.07	-1.14	IN
Cxcl13	AF030636	chemokine (C-X-C motif) ligand 13	1.63*	3.40	1.58	1.15	IN
Cxcr6	NM_030712	chemokine (C-X-C motif) receptor 6	5.30*	-1.06	1.34	1.13	IN
Becl1	C86082	beclin 1 (coiled-coil, myosin-like BCL2-interacting protein)	1.64	-1.75	2.47*	1.69	
C1qb	BB111335	complement component 1, q subcomponent, beta polypeptide	1.75*	2.88*	-1.11	1.40*	
Ccl12	U50712	chemokine (C-C motif) ligand 12	7.57*	2.17*	1.39	1.11	
Chi3l3	NM_009892	chitinase 3-like 3	2.25*	3.21*	1.23	1.66	
Chi3l3 /// Chi3l4	AY065557	chitinase 3-like 3 /// chitinase 3-like 4	2.83*	5.35	1.30	2.04	
Chi3l4	AY065557	chitinase 3-like 4	7.94*	26.83*	2.15	7.89	
Clec2h	AF350410	C-type lectin domain family 2, member h	-6.77*	1.80	1.66	-1.99	
Dfy	AK010883	Duffy blood group	2.22*	1.92*	1.09*	-1.02*	
Igh-4	M60430	immunoglobulin heavy chain 4 (serum IgG1)	30.16*	179.38*	5.90	91.61*	
Igj	BC006026	immunoglobulin joining chain	3.02	4.30*	1.69	5.74*	
Itna	NM_010584	intelectin a	42.88*	20.36*	1.75	3.70	
Reg3g	NM_011260	regenerating islet-derived 3 gamma	2.67	5.75*	1.80	1.89*	
Tgtp	NM_011579	T-cell specific GTPase	2.71*	1.46	1.17	-1.12	
Top2a	NM_001067	topoisomerase (DNA) II alpha	1.54*	20.37*	1.40*	1.18*	

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CELLULAR PHYSIOLOGICAL PROCESS							
Ceacam1	X15351	CEA-related cell adhesion molecule 1	1.24*	5.07	3.22	1.79*	AL
Socs3	BB241535	suppressor of cytokine signaling 3	2.63*	1.77*	-1.48	-1.35	AL, IM, IN
Lcn2	X14607	lipocalin 2	2.26	2.32*	1.15	-1.01	AS, BA, BH, IN
Timp1	BC008107	tissue inhibitor of metalloproteinase 1	2.44	2.53*	-1.05	-1.06	AS, IN
Muc5ac	AK008656	mucin 5, subtypes A and C, tracheobronchial/gastric	38.55*	20.36*	10.57*	7.26*	BA, IN
Slc22a3	NM_011395	solute carrier family 22 (organic cation transporter), member 3	-1.14	-1.46*	-1.35	-2.06*	BA
Ccna2	X75483	cyclin A2	2.20*	1.50	1.47	1.23*	CL
Gadd45g	AK007410	growth arrest and DNA-damage-inducible 45 gamma	3.40*	1.85	1.36	1.78	CL
Adam8	NM_007403	a disintegrin and metalloprotease domain 8	2.23*	1.16	1.01	1.06	IN
F10	NM_007972	coagulation factor X	2.48*	1.93	1.17	1.50	IN
Gas1	BB550400	growth arrest specific 1	-2.07*	-1.05	1.05	-1.99*	IN
Socs1	AB000710	suppressor of cytokine signaling 1	4.37*	1.03	1.13	-1.18	IN
Tfrc	BB810450	transferrin receptor	2.08	1.19	1.29	2.05*	IN
Timp4	BI788452	tissue inhibitor of metalloproteinase 4	1.15	1.91*	1.74*	2.26*	IN
Mki67	X82786	antigen identified by monoclonal antibody Ki 67	1.75	2.12*	1.24	1.07	IN
Cdc20	BB041150	cell division cycle 20 homolog (S. cerevisiae)	1.70	2.10*	1.07	1.37	ML
Adamts5	BB658835	a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 5 (aggrecanase-2)	-2.11*	-1.50	-1.09	-1.57*	
Aqp4	BB193413	aquaporin 4	-1.36	-1.11	-1.50*	-2.06*	
Atp2b2	AV343478	ATPase, Ca ⁺⁺ transporting, plasma membrane 2	2.53*	1.52	1.38	1.41	
Cacna1d	BB048682	calcium channel, voltage-dependent, L type, alpha 1D subunit	-1.65	-1.11	-1.72*	-2.34*	
Capn9	NM_023709	calpain 9 (nCL-4)	4.80	20.28*	-1.85	3.23	
Casp11	NM_007609	caspase 11, apoptosis-related cysteine protease	2.17*	1.29	-1.02	-1.09	
Cd209a	AF374470	CD209a antigen	2.32*	1.35	-1.10	1.28	
Cd209e	AF373412	Cd209e antigen	126.91*	15.35	-1.28	4.29	
Cdca5	NM_026410	cell division cycle associated 5	2.11*	2.07*	1.66	1.93*	
Cks2	NM_025415	CDC28 protein kinase regulatory subunit 2	1.77*	1.83	1.39	2.03*	
Clca3	NM_017474	chloride channel calcium activated 3	1187.70*	477.03*	2.21	52.08*	
Crim1	AK018666	cysteine-rich motor neuron 1	1.18	1.34	-2.36*	-1.64	
Cyp2a4	NM_007812	cytochrome P450, family 2, subfamily a, polypeptide 4	-1.42	-1.34	1.13	2.11*	
Dnm1	L31397	dynamitin 1	2.56	1.13	1.69*	-2.11	
Fxyd4	NM_033648	FXFD domain-containing ion transport regulator 4	1.58	2.93*	3.63	1.62	
H2afz	AV215230	H2A histone family, member Z	1.09	2.05*	-1.44*	1.07	
Igf1	NM_000618	Insulin-like growth factor IA precursor	1.59*	1.80*	-1.41	1.11	
Itga3	NM_002204	integrin, alpha 3	-1.02	-1.64	1.72*	-1.53*	
Itsn1	BM248471	intersectin 1 (SH3 domain protein 1A)	-1.07	2.02*	-1.16	1.05	

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CELLULAR PHYSIOLOGICAL PROCESS							
Kcnk3	BF467278	potassium channel, subfamily K, member 3	-2.03*	-1.42	-1.91	-1.85	
Lenep	BC006806	lens epithelial protein	1.85	-1.53*	-1.10	-2.10*	
Lgals12	AF244979	lectin, galactose binding, soluble 12	-2.89*	-1.07	1.50	1.07	
Lpxn	BC026563	leupaxin	1.29	2.32*	1.13	1.23	
Maff	BC022952	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein F (avian)	1.31	-1.19	1.24	3.43*	
Mcoln2	AK014467	mucolipin 2	10.90*	2.18	-1.31	1.05	
Mt1	NM_013602	metallothionein 1	2.41*	1.24	1.77	2.48*	
Mt2	AA796766	metallothionein 2	4.33*	1.58	1.47	2.72*	
Neurl	AF401228	neuralized-like homolog (Drosophila)	-2.23*	-1.12	1.12	1.36	
Nr4a1	NM_010444	nuclear receptor subfamily 4, group A, member 1	1.05	-2.26*	1.53	4.24*	
Nup54	BB168451	nucleoporin 54	-1.02	1.62	-2.17*	-1.21	
Pim2	NM_138606	proviral integration site 2	2.02*	1.03	1.16	1.27	
Qscn6	AK004880	quiescin Q6	1.81*	2.23	1.51	1.91*	
Ramp3	NM_019511	receptor (calcitonin) activity modifying protein 3	2.37*	1.49	1.43	2.04*	
Rapgef4	AK004874	Rap guanine nucleotide exchange factor (GEF) 4	-1.10	1.44	-1.35	2.29*	
Serpina3g	BC002065	serine (or cysteine) proteinase inhibitor, clade A, member 3G	8.17*	2.30	1.31	1.06	
Slc1a1	U75214	solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter, system Xag), member 1	2.09*	1.22	-1.06	-1.19	
Slc5a1	AF208031	solute carrier family 5 (sodium/glucose cotransporter), member 1	5.88*	2.50*	1.84	1.20	
Slc7a8	NM_016972	solute carrier family 7 (cationic amino acid transporter, y+ system), member 8	-1.13	2.20*	1.13	1.41	
Slc26a4	NM_011867	solute carrier family 26, member 4	37.60*	21.91*	3.36*	1.16	
Spr2a	AV371678	small proline-rich protein 2A	11.01*	3.06	1.25	1.52	
Tnfaip9	AY029778	tumor necrosis factor, alpha-induced protein 9	3.28*	1.61	1.02	-1.13	
Tnfrsf19	NM_013869	tumor necrosis factor receptor superfamily, member 19	1.00	1.04	1.11	-2.31*	
Tnfrsf21	BG972377	tumor necrosis factor receptor superfamily, member 21	-1.11	-1.00	1.41	2.45*	
Trp53inp1	AW495711	transformation related protein 53 inducible nuclear protein 1	-1.03	1.11	1.71*	2.78*	
Ttpa	AU019171	tocopherol (alpha) transfer protein	-2.8	-1.31	1.08	2.04*	
Txnrd1	BB284199	thioredoxin reductase 1	1.74*	1.08	1.47	2.40*	

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			acute		chronic		
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METABOLISM							
Hmox1	NM_010442	heme oxygenase (decycling) 1	1.83	1.69*	1.46	3.84*	AS, IN, LN
Gclc	BC019374	glutamate-cysteine ligase, catalytic subunit	2.24*	1.44	1.39	1.98*	BA, IN
Muc5b	AF369933	mucin 5, subtype B, tracheobronchial	5.87*	5.89	1.76	2.22*	BA
Ptgs2	M94967	prostaglandin-endoperoxide synthase 2	1.80*	1.16	1.21	2.12*	BA, IN, LN
Mafb	AW412521	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein B (avian)	3.69*	1.45	-1.08	1.53	IG
Aloxe3	NM_011786	arachidonate lipoxygenase 3	-1.03	1.04	2.08*	1.45*	IN
Arg1	NM_007482	arginase 1, liver	34.06*	3.57	-1.28	1.20	IN, LI
Gclm	NM_008129	glutamate-cysteine ligase, modifier subunit	1.03	-1.04	1.33	2.04*	NL
Rrm2	NM_009104	ribonucleotide reductase M2	1.03	2.47*	-1.20	1.85*	NL
Acat1	BG070487	acetyl-Coenzyme A acetyltransferase 1	-2.31*	-1.10	-1.48*	-1.31	
Adh7	NM_009626	alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide	-2.01	1.23	-1.06	3.58*	
Aldh1a3	AF253409	aldehyde dehydrogenase family 1, subfamily A3	27.06*	5.41	1.06	3.10	
Asb6	BB526646	ankyrin repeat and SOCS box-containing protein 6	2.21	-1.09	-1.75*	2.26*	
Bnc1	U88064	basonuclin 1	-3.74*	1.13	-1.45	-2.31*	
Brunol4	AV327653	bruno-like 4, RNA binding protein (Drosophila)	-3.18*	1.71	1.75*	-1.22	
Cbr3	AK003232	carbonyl reductase 3	1.38	1.37*	1.58	2.03*	
Ces1	NM_021456	carboxylesterase 1	1.13	-1.46	1.19	2.72*	
Ch25h	NM_009890	cholesterol 25-hydroxylase	6.08*	1.80*	1.24	1.64*	
Ckm	NM_007710	creatine kinase, muscle	-1.83	1.26	1.03	-2.67*	
Cox15	BB736240	COX15 homolog, cytochrome c oxidase assembly protein (yeast)	-1.14	1.27	-2.37*	1.06	
Ctps	NM_016748	cytidine 5'-triphosphate synthase	2.20*	1.13	-1.04	-1.16	
Egr2	X06746	early growth response 2	2.26*	1.43	1.05	1.28*	
Fmo3	NM_008030	flavin containing monooxygenase 3	-2.61*	-2.62*	-1.14	1.08	
Gatm	AW108522	glycine amidinotransferase (L-arginine:glycine amidinotransferase)	1.61	2.36*	1.08	1.57	
Gsta2	NM_008182	glutathione S-transferase, alpha 2 (Yc2)	1.23	-1.12	1.08	2.00*	
Hipk3	NM_010434	homeodomain interacting protein kinase 3	-1.00	1.03	1.17	2.16*	
Hoxa4	AV135424	homeo box A4	-1.90	-1.32	-1.24	-3.22*	
Hoxa7	NM_010455	homeo box A7	-9.27*	-1.13	1.81	-3.61	
Hsp105	BI499717	heat shock protein 105	-1.01	2.36*	-1.10	1.46	
Lrat	NM_023624	lecithin-retinol acyltransferase (phosphatidylcholine-retinol-O-acyltransferase)	-1.35	-1.06	1.24	-2.10*	
Oxct1	AV213379	3-oxoacid CoA transferase 1	-1.13	1.97	-2.08*	-1.13	
Pbk	NM_023209	PDZ binding kinase	2.38*	1.88*	1.45*	1.37	
Pfkfb2	BC018418	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2	2.05	1.12	1.14	2.63*	
Ppp1r3c	BQ176864	protein phosphatase 1, regulatory (inhibitor) subunit 3C	-1.01	1.38	-1.12	-2.18*	
Psat1	BC004827	phosphoserine aminotransferase 1	-1.04	1.24	-1.11	2.54*	
Rbbp6	BC016578	Retinoblastoma binding protein 6	-1.45	-1.15	1.13	-2.23*	
Rfc4	BB251459	replication factor C (activator 1) 4	-1.06	1.51	-2.00*	1.21	
Sox18	NM_009236	SRY-box containing gene 18	-1.50	-1.47	-1.07	-2.13*	
Sox4	AI428101	SRY-box containing gene 4	-1.08	1.26	-1.36	-2.06*	
St3gal4	AB061305	ST3 beta-galactoside alpha-2,3-sialyltransferase 4	2.50*	1.24	1.03	-1.23*	
Sult1d1	NM_016771	sulfotransferase family 1D, member 1	-2.11*	-1.00	-1.23	2.03*	
Tcea3	BC010807	transcription elongation factor A (SII), 3	-3.24*	-1.11	1.08	-1.09	
Ubc	D50527	ubiquitin C	1.06	1.27	-2.28*	-1.42	
Uhrf1	BB702754	ubiquitin-like, containing PHD and RING finger domains, 1	1.43	2.44*	1.26	-1.48	

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METABOLISM							
Zik1	BE824681	zinc finger protein interacting with K protein 1	1.14	1.06	-1.28	-2.19*	

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ORGAN DEVELOPMENT							
Bmp2	AV239587	bone morphogenetic protein 2	-2.23*	1.03	-1.38	-1.18	IN
Pde4b	BM246564	phosphodiesterase 4B, cAMP specific	-1.18	1.02	1.02	2.09*	IN
Thbs1	AI385532	thrombospondin 1	3.34*	1.45*	-1.11	1.51	IN
Cnn3	BB490338	calponin 3, acidic	-1.06	1.24	-2.94*	-1.45	
Dll4	AK004739	delta-like 4 (Drosophila)	-1.23	1.00	-1.00	-2.16*	
Gsto1	NM_010362	glutathione S-transferase omega 1	1.65	2.16*	1.35	1.39*	
Osr1	NM_011859	odd-skipped related 1 (Drosophila)	1.22	1.19	1.07	-2.59*	
Scin	NM_009132	scinderin	8.23*	9.18*	-1.63	2.82	
Smpx	NM_025357	small muscle protein, X-linked	-9.24	1.10	-1.85	-3.37*	
Snai1	NM_011427	snail homolog 1 (Drosophila)	-1.25	1.23	-1.26	-2.25*	
Sumf1	BC026981	sulfatase modifying factor 1	-1.18	1.15	-1.17	2.00*	
SIGNAL TRANSDUCTION							
Gpr43	AV370830	G protein-coupled receptor 43	2.24*	1.47*	1.13	1.19	IG
Eif4ebp1	NM_007918	eukaryotic translation initiation factor 4E binding protein 1	1.06	1.33	-1.25	-3.82*	IN
Wnt2	BC026373	wingless-related MMTV integration site 2	-1.15	-1.32	-1.23	-2.51*	IN
Avpi1	BI649826	arginine vasopressin-induced 1	-1.03	-1.13	1.14	2.04*	
Emr4	AF396935	EGF-like module containing, mucin-like, hormone receptor-like sequence 4	1.01	-1.34	1.08	-2.63*	
Gpr65	NM_008152	G-protein coupled receptor 65	1.77*	-1.04	1.76	2.05*	
Homer2	AB017136	homer homolog 2 (Drosophila)	-2.30*	1.03	-1.04	2.34	
Iigp1	BM239828	interferon inducible GTPase 1	2.29*	1.16	-1.06	-1.33	
Osmr	AB015978	oncostatin M receptor	2.07*	1.29	1.08	-1.26	
Rab17	NM_008998	RAB17, member RAS oncogene family	1.62	1.04	-6.79*	-2.20	

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MISCELLANEOUS							
Carboxylase activity							
Ces3	AI315015	carboxylesterase 3	-1.58	1.93	-2.20*	1.18	
Endonuclease activity							
Ear11	BC020070	eosinophil-associated, ribonuclease A family, member 11	44.88*	45.08*	3.48	13.43*	AS, IN, EA
Endog	AV104666	endonuclease G	-2.04*	1.20	-1.11	1.45	
Cytokine activity							
Fbs1	BB162362	fibrosin 1	-2.24*	-1.22	1.00	-1.15	IN
cysteine protease inhibitor activity							
Fetub	NM_021564	fetuin beta	1.47	1.39	2.10*	1.74	
Protein binding							
Lztr1	BB114402	leucine-zipper-like transcriptional regulator, 1	-1.08	1.50	-2.90*	1.40	
Mcm6	BB099487	minichromosome maintenance deficient 6 (MIS5 homolog, S. pombe) (S. cerevisiae)	1.35	2.00*	-1.04	-1.45	
MISCELLANEOUS							
Carbohydrate binding							
Mgl2	AW494220	macrophage galactose N-acetyl-galactosamine specific lectin 2	2.67	2.39*	-1.07	-1.10	
Receptor activity							
Pigr	AV027632	polymeric immunoglobulin receptor	3.72*	4.21*	1.52	1.59	IN
Hormone activity							
Retnla	NM_020509	resistin like alpha	35.57*	12.54*	2.35	7.13*	
endopeptidase inhibitor activity							
Serpina3c	NM_008458	serine (or cysteine) proteinase inhibitor, clade A, member 3C	6.98	3.62*	1.45	-1.44	
Slpi	NM_011414	secretory leukocyte protease inhibitor	2.73	3.22*	2.46	4.37*	AL, AS, BA, IN, LI
zinc ion binding							
Zcwcc2	AV036158	zinc finger, CW-type with coiled-coil domain 2	-2.32*	1.07	1.32	1.16	
Ibrdc3	NM_153341	IBR domain containing 3	1.86*	1.57*	1.13*	-1.05*	

Gene symbol	GenBank accession No.	Gene description	Fold change				GeneCards
			acute		chronic		
			04 h	24 h	4 W	6 W	
NON-CLASSIFIED							
Agr2	NM_011783	anterior gradient 2 (<i>Xenopus laevis</i>)	10.89*	19.76*	2.46*	4.60*	
Elov17	BC005602	ELOVL family member 7, elongation of long chain fatty acids (yeast)	-2.83*	1.22	1.09	1.34	
Mfap3	BI661422	microfibrillar-associated protein 3	-2.23*	-1.57*	1.41	1.10	
Ms4a11	NM_026835	membrane-spanning 4-domains, subfamily A, member 11	2.29*	2.70	-1.09	1.61*	
Peg12	NM_013788	paternally expressed 12	-1.63	6.30	-7.16*	2.29	
Popdc2	NM_022318	popeye domain containing 2	-1.54	-1.39	1.01	-2.39*	
Snca	NM_011430	synuclein, gamma	2.04	-1.74	1.88	-8.12*	
UNKNOWN							
1110006I15Rik	AW494906	RIKEN cDNA 1110006I15 gene	-1.76*	-2.29*	1.03	-1.45*	
1110011D13Rik	BC024464	RIKEN cDNA 1110011D13 gene	3.87	-1.63*	1.63	1.91	
1810020C19Rik	BB560177	RIKEN cDNA 1810020C19 gene	2.57*	-1.10	-1.06	-1.44	
2010003I19Rik	BC027083	RIKEN cDNA 2010003I19 gene	-2.00*	1.04	-1.15	1.12	
2010005O13Rik	BC017549	RIKEN cDNA 2010005O13 gene	1.20	2.01*	1.01	-1.08	
2600005N12Rik	BI456906	RIKEN cDNA 2600005N12 gene	-1.24	1.34	-2.07*	-1.09	
9030425E11Rik	BG072972	RIKEN cDNA 9030425E11 gene	1.16	1.12	-1.01	-2.00*	
9130404D08Rik	AK018662	RIKEN cDNA 9130404D08 gene	1.84	-3.38*	1.36	1.24	
9230117N10Rik	NM_133775	RIKEN cDNA 9230117N10 gene	3.22*	1.46	-1.02	-1.20	
B930041F14Rik	BB322737	RIKEN cDNA B930041F14 gene	1.50	1.20	2.28*	1.23	
C030004A17Rik	AK012261	RIKEN cDNA C030004A17 gene	-1.10	1.29	-2.06*	-1.04	
D17H6S56E-5	NM_033075	DNA segment, Chr 17, human D6S56E 5	2.49*	1.96*	1.63	1.47*	
E430025L02Rik	BC027411	RIKEN cDNA E430025L02 gene	1.57*	-1.04	1.09	-2.06*	
LOC243469	M35669	similar to anti-glycoprotein-B of human Cytomegalovirus immunoglobulin VI chain	5.09	8.09*	4.26	29.07*	
U46068	U46068	cDNA sequence U46068	4.22*	4.67*	1.62	2.51*	
null	AY058908	Similar to V(kappa) gene product	1.35	2.70*	2.07	6.48*	
UNKNOWN							
null	BC003855	null	1.21	1.16	1.87	2.93*	
null	M18237	null	3.03*	8.90*	1.84	9.01*	
null	Z95476	null	2.78	1.91	2.14	12.61*	
null	Z95478	null	3.16	1.79	9.52	6.72*	

* Denotes the fold changes with the significance level (p) of <0.05 that were determined by Student's t test. Each of the key words used for GeneCards database searches was abbreviated as follows: AP = Acute-phase reaction; AI = airway inflammation; AL = allergen; AS = asthma; BA = bronchial asthma; BH = bronchial hyperresponsiveness; CL = carcinoma non-small cell lung; EA = extrinsic asthma.; IE = IgE; IG = IgG; IM = immune gene; IN = inflammation gene; IR = immune response genes; LI = lung inflammation; ML = malignant neoplasm of the lung; NL = non-small cell lung cancer.