Supplementary Table S1. Gene name and symbol, selected relevant Gene Ontology Annotation (UniProt-GOA) functions (Dimmer et al., 2012), NCBI reference sequence number, primer pair sequences and amplicon lengths of the genes measured in RT-qPCR

gene name (symbol)	functions	NCBI Reference sequence	primer sequence (5'→3') forward reverse	amplicon length (bp)
reference genes				
actin, gamma 1 (ACTG1)	cytoskeleton	**NM_001033618**	AACTCCATCATGAAGTGTGAC GATCCACATCTGCTGGAAGG	234
cytokeratin 8 (KRT8)	cytoskeleton	**NM_001033610**	TGGTGGAGGACTTCAAGACC CGTGTCAGAAATCTGAGACTGC	215
glyceraldehyd-3-phosphate dehydrogenase (GAPDH)	NAD/NADH binding	**NM_001034034.1**	GTCTTCACTACCATGGAGAAGG TCATGGATGACCTTGGCCAG	197
H3 histone, family 3A (H3F3A)	DNA binding, nucleosome assembly	**NM_001014389.2**	ACTCGCTACAAAAGCCGCT ACTTGCCTCCTGCAAAGC	232
ubiquitine B (UBB)	protein binding	**NM_174133.2**	AGATCCAGGATAAGGAAGGCAT GCTCCACCTCCAGGGTGAT	426
tyrosine 3-monooxygenase/ tryptophan 5-monooxygenase activation protein, zeta polypeptide (YWHAZ)	protein domain specific binding	**NM_174814.2**	CAGGCTGAGCGATATGATGA GACCCTCCAAGATGACCTAC	141
complement system				
complement component 1, q subcomponent, A chain (C1QA)	complement activation, classical pathway, innate immune response	**NM_001014945.1**	CGTTGGACCGAATTCTGTCTC TGCTGTTGAAGTCACAGAAGCC	224
complement component 3 (C3)	complement activation, classical and alternative pathway	**NM_001040469**	AAGTTCATCACCCACATCAAG CACTGTTTCTGGTTCTCCTC	191
complement component 3a receptor 1 (C3AR1)	complement component 3a binding , positive regulation of macrophage and neutrophil chemotaxis	**NM_001083752.1**	CCCTCCATCATCATCCTCAAC CACATTACCAAAGCCACCACC	167
complement component 5a receptor 1 (C5AR1)	C5a anaphylatoxin receptor activity, neutrophil chemotaxis	**NM_001007810**	ATACCGTCCTTTGTGTTCCG ATTGTAAGCGTGACCAGCG	158
C-C and C-X-C motif ligand chemokines				
chemokine (C-C motif) ligand 2 (CCL2)	CCR2 chemokine receptor binding, macrophage and monocyte chemotaxis	**NM_174006.2**	CTCACAGTAGCTGCCTTCAGC GCTTGGGGTCTGCACATAAC	205
chemokine (C-C motif) ligand 5 (CCL5)	CCR1 and CCR5 chemokine receptor binding, eosinophil chemotaxis, neutrophil activation	**NM_175827.2**	CCTCCCCATATGCCTCG TTGGCGCACACCTGG	157
chemokine (C-C motif) ligand 20 (CCL20)	chemokine activity, chemotaxis, inflammatory response	**NM_174263.2**	CTTGTGGGCTTCACACAGC GTTTCACCCACTTCTTCTTTGG	115
chemokine (C-C motif) ligand 5 (CXCL5)	chemokine activity, chemotaxis,	**NM_174300.2**	TTGTGAGAGAGCTGCGTTGT CCAGACAGACTTCCCTTCCA	150
interleukin 8 (CXCL8)	interleukin-8 receptor binding, neutrophil chemotaxis, neutrophil activation	**NM_173925.2**	AAGAATGAGTACAGAACTTCGATGC GTTTAGGCAGACCTCGTTTCC	160

inflammatory cytokines				
interleukin 1, beta (IL1B)	interleukin-1 receptor binding, fever generation, cytokine activity	**NM_174093.1**	CAGTGCCTACGCACATGTCT AGAGGAGGTGGAGAGCCTTC	209
interleukin 6 (IL6)	interleukin-6 receptor binding, cytokine activity	**NM_173923.2**	TGGTGATGACTTCTGCTTTCC AGAGCTTCGGTTTTCTCTGG	109
interleukin 10 (IL10)	cytokine activity, negative regulation of cytokine secretion involved in immune response	**NM_174088.1**	AGCTGTATCCACTTGCCAACC TGGGTCAACAGTAAGCTGTGC	119
transforming growth factor, beta 1 (TGFB1)	growth factor activity, inflammatory response, negative regulation of epithelial cell proliferation	**NM_001166068.1**	CCTGAGCCAGAGGCGGACTAC GCTCGGACGTGTTGAAGAAC	130
tumor necrosis factor (TNF)	cytokine activity, tumor necrosis factor receptor binding, defence response to Gram-positive bacterium, Lipopolysaccharide-mediated pathway	**NM_173966.2**	CCACGTTGTAGCCGACATC ACCACCAGCTGGTTGTCTTC	108
antimicrobial peptides				
lingual antimicrobial protein (LAP)	defence response to bacterium and fungus, killing of cells of other organism	**NM_203435.3**	AGAAATTCTCAAAGCTGCCG CAGCATTTTACTTGGGCTCC	107
lactoferrin (LF)	ferric ion binding, cellular iron ion homeostasis, defence response to bacterium, proteolysis	**NM_180998.2**	CGAAGTGTGGATGGCAAGGAA TTCAAGGTGGTCAAGTAGCGG	215
lactoperoxidase (LPO)	peroxidase activity, defence response to bacterium	**NM_173933.2**	TGGCTGTCAACCAAGAAGC TGAGGCTCGAAAATCTCCC	134
lysozyme 1 (milk isozyme) (LYZ1)	lysozyme activity, cytolysis, defence response to bacterium	**NM_001077829.1**	AAGAAACTTGGATTGGATGGC ACTGCTTTTGGGGTTTTGC	185
tracheal antimicrobial peptide (TAP)	defence response to bacterium	**NM_174776.1**	AGGAGTAGGAAATCCTGTAAGCTGTGT AGCATTTTACTGCCCGCCCGA	113
acute phase proteins				
haptoglobin (HP)	haemoglobin binding	**NM_001040470.1**	AATGAACGATGGCTCCTCAC TTGATGAGCCCAATGTCTACC	176
serum amyloid A 3 (SAA3)	acute phase response	**NM_181016.3**	CCAACTACAGGGGTGCAGAC GCGTTACTGATCACTTTAGCAGC	103
Inflammasome				
NOD-like-receptor (NLR) family, pyrin domain containing 1 (NLRP1)	defence response to bacterium, induction of apoptosis	**XM_003587406.1**	ACCATATTTCCAGAGGCATCC TTGATTCAACCACGCTAAAGG	190
NOD-like-receptor (NLR) family, pyrin domain containing 3 (NLRP3)	inflammatory response, positive regulation of interleukin-1b secretion	**NM_001102219.1**	AAACACTCCAACAACCTGGC AACCAGAGCTTCTTCAGATTGC	214
caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase) (CASP1)	induction of apoptosis, interleukin-1b production	**XM_002692921**	ACGTCTTGCCCTTATTATCTGC GTACTGTCAGAGGTCCGATGC	204

toll-like receptor pathway				
caspase 8, apoptosis-related cysteine peptidase (CASP8)	induction of apoptosis by extracellular signals, macrophage differentiation, response to tumor necrosis factor	**NM_001045970.2**	TAGCATAGCACGGAAGCAGG GCCAGTGAAGTAAGAGGTCAG	295
CD14 molecule (CD14)	lipopolysaccharide binding, lipoteichoic acid binding, positive regulation of cytokine secretion	**NM_174008.1**	GCAGCCTGGAACAGTTTCTC ACCAGAAGCTGAGCAGGAAC	124
interferon regulatory factor 3 (IRF3)	transcription regulatory region DNA binding, lipopolysaccharide-mediated signalling pathway	**NM_001029845.2**	GGCTTGTGATGGTCAAGGTT TGCAGGTCGACAGTGTTCTC	100
Lipopolysaccha-de binding protein (LBP)	lipid binding, defence response to bacterium	**NM_001038674.1**	CTTGGAGAGCAAGATTTGCG TCACCCTTGAACATCACATCC	174
lymphocyte antigen 96 (LY96)	lipopolysaccharide receptor activity, innate immune response	**NM_001046517.1**	TGTTTCAATACGTTCTGAGCCC TCAGTGTTCCCCTCGATGG	300
myeloid differentiation primary response gene (88) (MYD88)	MYD88-dependent toll-like signalling pathway, defence response to Gram-positive bacterium, lipopolysaccharide-mediated signalling pathway	**NM_001014382.2**	CTGCAAAGCAAGGAATGTGA AGGATGCTGGGGAACTCTTT	122
toll-like receptor 2 (TLR2)	transmembrane signalling receptor activity, innate immune response	**NM_174197.2**	CATTCCTGGCAAGTGGATTATC GGAATGGCCTTCTTGTCAATGG	201
toll-like receptor 4 (TLR4)	transmembrane signalling receptor activity, lipopolysaccharide-mediated signalling pathway	**NM_174198.6**	TGCTGGCTGCAAAAAGTATG TTACGGCTTTTGTGGAAACC	213
scavenger receptors				
CD68 molecule (CD68)	cellular response to organic substance	**NM_001045902.1**	GGCTCCAAGGAGGCAATAG GAATGAGAGGAGCAAGTGGG	201
CD163 molecule (CD163)	scavenger receptor activity, acute phase response	**NM_001163413.1**	CGAGTCCCATCTTTCACTCTG AGTGAGAGTTGCAGAGAGGTCC	185
others				
myxovirus (influenza virus) resistance 1, interferon-inducible protein p78 (mouse) (MX1)	response to virus, innate immune response, response to type I and III interferon, negative regulation of viral genome replication	**NM_173940.2**	AAGGCCACTATCCCCTGC CTCGTACTTTGGTAAACAGTCGG	277
myxovirus (influenza virus) resistance 2 (mouse) (MX2)	response to virus, GTPase activity	**NM_173941.2**	CTTCAGAGACGCCTCAGTCG TGAAGCAGCCAGGAATAGTG	232
S100 calcium binding protein A9 (S100A9)	chemotaxis, calcium ion binding	**NM_001046328.1**	CTGGTGCAAAAAGAGCTGC AGCATAATGAACTCCTCGAAGC	128
S100 calcium binding protein A12 (S100A12)	calcium ion binding	**NM_174651.2**	TGGGGAGGCGCTGCTCTAGAC TCGAAATGCCCCACCCGAACG	135
v-rel reticuloendothe-liosis viral oncogene homolog A (NF-kappa-B p65 subunit) (RELA)	transcription factor binding, cytokine-mediated signalling pathway, inflammatory response, positive regulation of NFkappaB transcription factor activity	**NM_001080242.2**	GCCTGTCCTCTCTCACCCCATCTTTG ACACCTCGATGTCCTCTTTCTGCACC	152