

Additional file 1: Table S1. Sequences of primers used for transcriptomic validation by RT-qPCR.

Ensembl id	Gene name	Gene symbol	Sequences (5' to 3')	Product size (bp)
ENSBTAG00000025257	C-C motif chemokine ligand 4	CCL4	AGCTGTGGTATTCCAGACCAA	87
			TCAAGGTCATCCACGTACTCC ¹	
ENSBTAG00000023659	Metallothionein-2	MT2	GGCTCCTGCAAATGCAAAGAT	75
			CCGAAGCCCCTTTGCAGAC ²	
ENSBTAG00000021326	C-C motif chemokine ligand 20	CCL20	AATTAGCTGTGTGTCAGATCC	80
			CATCCTTTTGACTCTTTGACTGA ¹	
ENSBTAG00000006894	Nitric oxide synthase, inducible	NOS2	GCAGCAGCGGCTCCATGAGG	141
			CTTGGGCTGGTCAGGCAGGC ³	
ENSBTAG00000000436	TNF alpha induced protein 3	TNFAIP3	TGCTAAGCTGGCTGCAAGG	59
			TTGCTGTGTTGATGCTGCG ⁴	
ENSBTAG00000021462	Colony stimulating factor 3	CSF3	CTTGGCCCTGCCCCGA	62
			TTCCTCACTTGCTCTAAGCACTTG ⁴	
ENSBTAG00000001321	Interleukin 1 beta	IL1B	ACCTGAACCCATCAACGAAATG	74
			TAGGGTCATCAGCCTCAAATAACA ¹	
ENSBTAG00000006017	Nuclear factor kappa B subunit 2	NFKB2	CCTGCTGAATGCTCTGTCTG	102
			TCCTCCTTCACCTCTGTGCT ¹	
ENSBTAG00000010667	Phosphoinositide-3-kinase interacting protein 1	PIK3IP1	GGAGCTGGAATTGTCCTTGG	75
			GCACACTTTCTGCTCGTGCT ¹	
ENSBTAG00000046979	Legumain	LGMN	TGGAGGACCCTGAGGACG	64
			TACCAGCCGTTTGATCCTGC ⁴	
ENSBTAG00000008008	Toll like receptor 2	TLR2	ACGACGCCTTTGTGTCCTAC	192
			CCGAAAGCACAAAGATGGTT ⁵	
ENSBTAG00000008682	Toll like receptor 3	TLR3	GAGGCAGGTGTCCTTGAAC	329
			GCTGAATTTCTGGACCCAAG ⁵	
ENSBTAG00000038149	NLR family pyrin domain containing 12	NLRP12	GCGGATTTTGTGGTTGAAGAT	106
			CCTTCACACAGCAGCAGCAC ⁶	
ENSBTAG00000014921	Interleukin 6	IL6	CTGGGTTCAATCAGGCGATT	150
			GGATCTGGATCAGTGTCTGA ⁷	
ENSBTAG00000025471	Tumor necrosis factor	TNF	CCAGAGGGAAGAGCAGTCC	126
			GGAGAGTTGATGTCGGCTAC ⁸	
ENSBTAG00000026199	Actin beta	ACTB	ACACCGCAACCAGTTCGCCAT	216
			GTCAGGATGCCTCTCTTGCT ⁸	
ENSBTAG00000014731	Glyceraldehyde-3-phosphate dehydrogenase	GAPDH	ATCTCGCTCCTGGAAGATG	227
			TCGGAGTGAACGGATTTCG ⁹	

Ensembl id: Gene identifier in Ensembl database; bp: basepair

¹Magee, D. A. *et al.* Global gene expression and systems biology analysis of bovine monocyte-derived macrophages in response to in vitro challenge with *Mycobacterium bovis*. *PLoS One* **7**, e32034 (2012).

²Fujie, T. *et al.* Induction of metallothionein isoforms by copper diethyldithiocarbamate in cultured vascular endothelial cells. *J. Toxicol. Sci.* **41**, 225-232 (2016).

³Li, R. W., Li, C. & Gasbarre, L. C. The vitamin D receptor and inducible nitric oxide synthase associated pathways in acquired resistance to *Cooperia oncophora* infection in cattle. *Vet. Res.* **42**, 48-9716-42-48 (2011).

⁴Chitko-McKown, C. G. *et al.* Gene expression profiling of bovine macrophages in response to *Escherichia coli* O157:H7 lipopolysaccharide. *Dev. Comp. Immunol.* **28**, 635-645 (2004).

⁵Menzies, M. & Ingham, A. Identification and expression of Toll-like receptors 1–10 in selected bovine and ovine tissues. *Vet. Immunol. Immunopathol.* **109**, 23-30 (2006).

⁶This study

⁷Arranz-Solís, D. *et al.* Systemic and local immune responses in sheep after *Neospora caninum* experimental infection at early, mid and late gestation. *Vet. Res.* **47**, 1-13 (2016).

⁸Regidor-Cerrillo, J. *et al.* *Neospora caninum* infection during early pregnancy in cattle: how the isolate influences infection dynamics, clinical outcome and peripheral and local immune responses. *Vet. Res.* **45**, 10-9716-45-10 (2014).

⁹Puech, C., Dedieu, L., Chantal, I. & Rodrigues, V. Design and evaluation of a unique SYBR Green real-time RT-PCR assay for quantification of five major cytokines in cattle, sheep and goats. *Vet. Res.* **11**, 1 (2015).