

Supplementary Materials

Table S1. Primers used for qRT-PCR analysis of SE genes responsible for the intestinal colonization and virulence.

Genes	Function	Primer	Sequence
<i>sopB</i>	Adherence	Forward	GCGTCAATTCATGGGCTAAC
		Reverse	GGCGGCGAACCCTATAAACT
<i>invH</i>	Invasion	Forward	CCCTTCCTCCGTGAGCAAA
		Reverse	TGGCCAGTTGCTCTTTCTGA
<i>sipB</i>	Type 3 secretion system	Forward	GCCACTGCTGAATCTGATCCA
		Reverse	CGAGGCGCTTGCTGATTT
<i>pipB</i>	Type 3 secretion system	Forward	GCTCCTGTTAATGATTTTCGCTAAAG
		Reverse	GCTCAGACTTAACTGACACCAAACTAA
<i>orf245</i>	Type 3 secretion system	Forward	CAGGTAATATCGATGTGGACTACA
		Reverse	GCGGTATGTGGAACGAGTTT
<i>sipA</i>	Type 3 secretion system	Forward	CAGGGAACGGTGTGGAGGTA
		Reverse	AGACGTTTTTGGGTGTGATACGT
<i>ssaV</i>	Type 3 secretion system	Forward	GCGCGATACGGACATATTCTG
		Reverse	TGGGCGCCACGTGAA
<i>spvB</i>	Survival in macrophages	Forward	TGGGTGGGCAACAGCAA
		Reverse	GCAGGATGCCGTTACTGTCA
<i>mgtC</i>	Survival in macrophages	Forward	CGAACCTCGCTTTCATCTTCTT
		Reverse	CCGCCGAGGGAGAAAAAC
<i>sodC</i>	Survival in macrophages	Forward	CACATGGATCATGAGCGCTTT
		Reverse	CTGCGCCGCGTCTGA
<i>tatA</i>	Cell wall and cell membrane integrity	Forward	AGTATTTGGCAGTTGTTGATTGTTG-3'
		Reverse	ACCGATGGAACCGAGTTTTTT-3'
<i>hflK</i>	Cell wall and cell membrane integrity	Forward	AGCGCGGCGTTGTGA
		Reverse	TCAGACCTGGCTCTACCAGATG
<i>ompR</i>	Cell wall and cell membrane integrity	Forward	TGTGCCGATCTTCTTCCA
		Reverse	CTCCATCGACGTCCAGATCTC
<i>mrr1</i>	Efflux pump regulator	Forward	CCATCGCTTCCAGCAACTG
		Reverse	TCTCTACCATGAACCCGTACAAATT
<i>lrp</i>	Virulence regulation	Forward	TTAATGCCGCCGTGCAA
		Reverse	GCCGGAACCAATGACACT
<i>xthA</i>	Exo/endonuclease activity	Forward	CGCCCGTCCCCATCA
		Reverse	CACATCGGGCTGGTGTGTTT
<i>rpoS</i>	Oxidative stress	Forward	TTTTTCATCGGCCAGGATGT
		Reverse	5'-CGCTGGGCGGTGATTC
<i>ssrA</i>	Metabolism	Forward	CGAGTATGGCTGGATCAAAACA
		Reverse	TGTACGTATTTTTGCGGGATGT
<i>rfbH</i>	Lipopolysaccharide biosynthesis	Forward	ACGGTCGGTATTTGTCAACTCA
	Function	Reverse	TCGCCAACCGTATTTTGCTAA

Table S2. Human, porcine and chicken primers used for qRT-PCR analysis of host immune response.

Primer	Sense primer	Antisense primer	Reference
Human TLR4	TGCACAGGACAGAACATCTCTGGA	AGCTCCTGCAGGGTATTCAAGTGT	[106]
Human TLR9	GTGCCCCACTTCTCCATG	GGCACAGTCATGATGTTGTTG	[107]
Human IAP	CATACCTGGCTCTGTCCAAGA	CGCTCCACCAACTAAGAACG	[108]
Human β - actin	TCACCCACACTGTGCCCATCTACGA	CAGCGGAACCGCTCATTGCCAATG	[106]
Porsine TLR4	CTCTGCCTTCACTACAGAGA	CTGAGTCGTCTCCAGAAGAT	[109]
Porsine TLR9	GTGGAAGTGTTTTGGCATC	CACAGCACTCTGAGCTTTGT	[109]
Porsine β - actin	CATCACCATCGGCAACGA	GCGTAGAGGTCCTTCCTGATGT	[109]
Chicken TLR4	TGCACAGGACAGAACATCTCTGGA	AGCTCCTGCAGGGTATTCAAGTGT	[60]
Chicken TLR21	AGAAGGTGTCGGAGGATGGTG	GGGCTCCAAATGCTGACTGC	[60]
Chicken β -actin	ACGTCTCACTGGATTTTCGAGCAGG	ACGTCTCACTGGATTTTCGAGCAGG	[60]