

**Table S1. Primers for gene cloning and recombinant protein construction.**

Target Gene		Sequence (5'-3')	RE site	Gene-Length (bp)	DNA Templates
plpE	F	<sup>1</sup> <i>ggatccatgaaacaaatcgtttataaaac</i>	BamHI	1008	<i>ATCC 15742</i>
	R	<i>gaattcttattgtgcttggtgactttttc</i>	EcoRI		
FliC	F	<i>ggatccatgaaaagacaatcgtagc</i>	BamHI	1500	<i>ATCC 14028</i>
	R	<i>gtcgacttagaagtgtacgcgtaaac</i>	Sall		
tplpE	F	<sup>2</sup> <b>ggcggggg</b> <i>cggcagcggtagcgctggaaatcg</i>	-	195	<i>plpE</i>
	R	<i>ctcgagaaaggaggattgttgactattt</i>	XhoI		
nFliC	F	<i>ggatccatggcacaagtcattaatacaaac</i>	BamHI	312	<i>FliC</i>
	R	<b>gctgccgccccgc</b> <i>cagactgaaccgccagttc</i>	-		
nFliC- tplpE	F	<i>nFliC F</i>	BamHI	495	<i>tplpE</i> and <i>nFliC</i>
	R	<i>tplpE R</i>	XhoI		

<sup>1</sup> Italics in the primers represent restriction enzyme (RE) sites. <sup>2</sup> Bold fonts in the primers represent glycine-serine linkers.

**Table S2. Primers for cytokine genes.**

Target Gene		Sequence (5'-3')	Length (bp)	Annealing Temp. (°C)	GenBank
IL-1 $\beta$	F	tgggcatcaagggtcaca	244	55	NM_204524.1
	R	tcgggttggttggtgatg			
IL-6	F	caaggtgacggaggaggac	253	55	JQ897539
	R	tggcgaggaggatttct			
IL-8	F	catcatgaagcattccatct	204	50	HM179639.1
	R	cttcca agggatcttcattt			
IFN- $\gamma$	F	gacggtggacattatt	255	50	HQ739082
	R	ggctttgcgctggattc			
IL-12	F	ccaagacctggagcacaccgaag	163	61	AY262752.1
	R	gatccctggcctgcacagaga			
IL-4	F	tgtgccacgctgtgcttaca	193	61	AJ621249.1
	R	cttgtggcagtgctggctctcc			
IL-10	F	ctgcgcttctacacagatg	427	55	XM_025143715.1
	R	ccgttctcatccatctgc			
GAPDH	F	tgctgccagaacatcatcc	142	55	NM_204305
	R	acggcaggtcaggtcaacaa			

GAPDH: glyceraldehyde 3 phosphate dehydrogenase; IL: interleukin; IFN- $\gamma$ : interferon gamma.