

**Additional file 8.** List of expressed recombinant antigens of *Eimeria tenella*, their gene accession numbers and used PCR primers.

<i>E. tenella</i> antigen	GenBank accession	Expression vector	Restriction sites for cloning	PCR primers
<i>EtMic1</i> (microneme protein) [13]	AF032905 M73495A	pET16b (Novagen)	<i>NdeI-BamHI</i>	Mic1-NdeI Mic1-BamHI
<i>EtMic2</i> (microneme protein) [14]	Z71755	PET21(+) (Novagen)	<i>NdeI-EagI</i>	NdeI-Mic2 EagI-Mic2
<i>EtMic3</i> (microneme protein) [11]	AY512381	pET16b (Novagen)	<i>NdeI-BamHI</i>	Mic3-NdeI Mic3-BamHI
<i>EtMic5</i> fragment (microneme protein) [15]	AJ245536	pET22b(+) (Novagen)	<i>NcoI-XhoI</i>	Mic5-Nco2 Mic5-Xho2
Eimepsin (aspartyl proteinase) [16]	AJ293829	pET22b(+) (Novagen)	<i>EcoRI-XhoI</i>	Eimep-EcoRI Eimep-Xho2
MZP 5-7 (merozoite antigen) [17]	L08257	pET22b(+) (Novagen)	<i>NcoI-XhoI</i>	MZP-XhoI MZP-BamHI
19 kDa Ag 3-1E (potential immunostimulator) [18]	AY745810	pASK-IBA2 (IBA)	<i>BsaI</i>	3-1E Forward 3-1E Reverse

PCR primers:

Mic1-NdeI	5'- AAGGTCGTCATATGGCGCCCCTTCCTCG
Mic1-BamHI	5'- TTATGGATCCTTAGGATGCCACATCTCTG
NdeIMic2	5'- CATTCCATATGGCTCGAGCG
EagIMic2	5'- GTCCCGGCCGATGACTGTTGAGTGTCAC
Mic3-NdeI	5'- TCATTATTCATATGCGACTGAGCAGAAGTTTC
Mic3-BamHI	5'- CATTGGATCCTCACAAATGTGGCCCTCTCCCC
Mic5-Nco2	5'- ATGGCCATGGTGGAGACACAGTGG
Mic5-Eco2	5'- GTGCACGAGGTACCCGAATCCCTGCG
Eimep-EcoRI	5'- TCCGAATTCATGCGTTCCTTCTGGTCGTGG
Eimep-Xho2	5'- TATCTCGAGAAAGGCCAGTGCGATTGC
MZP-XhoI	5'- CGCTCTCGAGCTCGTCGTCCTCGTCGTCTCC
MZP-BamHI	5'- ACGGATCCGATGGCTAAGTCTATG
3-1E Forward	5'- ATGGTAGGTCTCAGGCCGAGAAGCAGACACCCAGGCC
3-1E Reverse	5'- ATGGTAGGTCTCAGCGCTGAAGCCGACTGGTGAAGGTAC