

Supplementary Table 1. Primers used in the amplification of *Plasmodium yoelii* MSP1 and CSP gene segments for the generation of recombinant proteins

Protein ^a	Oligo name	Sequence (5'→3') ^b	Amplified base positions	Recombinant protein
rPyMSP1-1	PyMSP1Nt1-F	<u>CCGGATCC</u> 'ACAATTGAAGTTTATAATG	61 - 1065	
	PyMSP1Nt1-R	GCGCGGCCCGC ² GTTAAGTTGGAACGGGTTGC		
rPyMSP1-2	PyMSP1Nt2-F	<u>CCGGATCC</u> 'CTTACATTAGAAGAAAAACAG	1066 - 2103	
	PyMSP1Nt2-R	GGGCGGCCCGC ² GTTATTTCTTTCGATACTTTC		
rPyMSP1-3	PyMSP1Mt1-F	<u>CAGGATCC</u> 'ATTGCTAAAGAGAAG	2104 - 2490	
	PyMSP1Mt1-R	GCGCGGCCCGC ² GTTATGATGCTTCTGTTGAG		
rPyMSP1-4	PyMSP1Mt2-F	<u>CAGGATCC</u> 'TCATCAGCACCTGGCGAAGG	2941 - 3678	Yes
	PyMSP1Mt2-R	GGGCGGCCCGC ² GTTAAGAAGTAAAAATTTAG		
rPyMSP1-5	PyMSP1Ct1-F	<u>CAGGATCC</u> 'ATGGAAGCTGTTCTTTAAAAAC	3679 - 4344	Yes
	PyMSP1Ct1-R	GCGCGGCCCGC ² GTTATAATCCATTTGTCATG		
rPyMSP1-6	PyMSP1Ct2-F	<u>CGGGATCC</u> 'AATAATAAATCACAAAAAAG	4345 - 5331	
	PyMSP1Ct2-R	GGGCGGCCCGC ² GTTAAAAATATATTAATAC		
rPyMSP1-7	PyMSP1Ct2-C19-F	<u>CGGGATCC</u> 'ATGGAAGCTGTTCTTTAAAAAC	4345 - 5223	
	PyMSP1Ct2-C19-R	GCGCGGCCCGC ² GTTATTTACATGTACATATAATT		
rPyMSP1-8	PyMSP1C19-F	<u>CCGGATCC</u> 'CCGAACCAACCOCTAATGC	5224 - 5331	Yes
	PyMSP1C19-R	GGGCGGCCCGC ² GTTAAAAATATATTAATAC		
rPyCSP-1	PyCSPNterm-F	<u>CGGGATCC</u> 'AATAAAAGTGCCAAGCCC	73 - 684	Yes
	PyCSPNterm-R	GCGCGGCCCGC ² GTTATGGTGCTCCTGGTCCTTG		
rPyCSP-2	PyCSPCterm-F	<u>CGGGATCC</u> 'CCACAAGAACCACCCCAAC	862 - 1284	Yes
	PyCSPCterm-R	GCCTCGAG ³ GTTAATTAAGAATACTAATAC		

^aAmplified gene segments were cloned into pET-28a plasmid except for Clone 8, which was inserted into pGEX-6p-1.

^bUnderlined sequences are recognition sites for *Bam*HI (1), *Not*I (2) and *Xho*I (3), respectively.