

Additional file 1

Oligonucleotide sequences and cycling conditions for genotyping *msp1*, *msp2* and *glurp*

	Gene/Family	Primer name	Primer sequence	Thermal conditions
Primary reaction	MSP-1	M1-OF	5' -CTAGAAGCTTTAGAAGATGCAGTATTG-3'	1 cycle (95°C/5 min, 58°C/2 min, 72°C/2 min) 25 cycles (94°C/1 min, 58°C/2 min, 72°C/2 min) Extension at 72°C/2 min Annealing at 58°C/2 min Final extension at 72°C/5 min
		M1-OR	5' -CTTAAATAGTATTCTAATTCAAGTGGATCA-3'	
	MSP-2	M2-OF	5' -ATGAAGGTAATTAACACATTGTCTATTATA-3'	
		M2-OR	5' -CTTTGTTACCATCGGTACATTCTT-3'	
	GLURP	G-OF	5' -TGAATTTGAAGATGTTCACTGAAC-3'	
		G-OR	5' -GTGGAATTGCTTTTTTCTTCAACACTAA-3'	
Secondary reaction	MSP1-K1	M1-KF_FAM	/56-FAM/AAATGAAGAAGAAATTACTACAAAAGGTGC	1 cycle (95°C/5 min, 61°C/2 min, 72°C/2 min) 25 cycles (94°C/1 min, 61°C/2 min, 72°C/2 min) Extension at 72°C/2 min Annealing at 61°C/2 min Final extension at 72°C/5 min
		M1-KR	5' -GCTTGCATCAGCTGGAGGGCTTGCACCAGA-3'	
	MSP1-MAD20	M1-MF_FAM	/56-FAM/AAATGAAGGAACAAGTGGAACAGCTGTTAC	
		M1-MR	5' -ATCTGAAGGATTTGTACGTCTTGAATTACC-3'	
	MSP1-RO33	M1-RF_FAM	/56-FAM/TAAAGGATGGAGCAAATACTCAAGTTGTTG	
		M1-RR	5' -CATCTGAAGGATTTGCAGCACCTGGAGATC-3'	
	MSP2-FC27	M2-FCF_FAM	/56-FAM/AATACTAAGAGTGTAGGTGCARATGCTCCA	
		M2-FCR	5' -TTTTATTTGGTGCATTGCCAGAACTTGAAC-3'	
	MSP2-IC	M2-ICF_FAM	/56-FAM/AGAAGTATGGCAGAAAGTAAkCCTYCTACT	
		M2-ICR	5' -GATTGTAATTCGGGGGATTCAGTTTGTTCG-3'	
GLURP	G-NF	5' -TGTTCACTGAACAATTAGATTTAGATCA-3'		
	G-OR	5' -GTGGAATTGCTTTTTTCTTCAACACTAA-3'		

Oligonucleotide sequences and cycling conditions for *PfK13*, *Pfdhfr* and *Pfdhps*

Gene	PCR	Primer	Sequence	Size	Thermal conditions
Pf-Kelch 13	Single run	K13-F	GTTGGTGGAGCTATTTTTGAAACATCTAG	1062	94°C /5 min 40 cycles (94°C/30 sec, 60°C/90 sec, 72°C/90 sec) 72°C/10 min
		K13-R	GCCAAGCTGCCATTCATTTGTATC		
Pfdhfr	Primary	Amp1 Amp2	TTTATATTTTCTCCTTTTAA CATTTTATTATTCGTTTTCT	718	94°C/5 min 30 cycles (94°C/30 sec, 49°C/60 sec, 72°C/60 sec) 72°C/5 min
	Secondary	SP1 SP2	ATGATGGAACAAGTCTGCGAC ACATTTTATTATTCGTTTTTC	700	94°C /5 min 25 cycles (94°C/30 sec, 49°C/60 sec, 72°C/60 sec) 72°C/5 min
Pfdhps	Primary	PS1-F O2	GAATTTTATCCATTCCTCATG TTCCTCATGTAATTCATCTGA	1028	94°C /5 min 30 cycles (94°C/60 sec, 56°C/2 min, 72°C/60 sec) 72°C/5 min
	Secondary	PSA-F O2	GTATACAACACACAGATATAG TTCCTCATGTAATTCATCTGA	1005	94°C/5 min 25 cycles (94°C/60 sec, 56°C/2 min, 72°C/60 sec) 72°C/5 min