

**Table S1.** Primers for the PCR assays for *B. bigemina* reviewed in this study.

Species	Primer 5' – 3'	Sequence	Product length (Bp)	Target gene (Genbank No.)	Reference
<i>B. bigemina</i>		Standard PCR		(S45366.1)	
	BiIA	CATCTAATTTCTCTCCATACCCCTCC	278	6–31 257–283	6, 36, 65
	BiIB	CCTCGGCTTCAACTCTGATGCCAAAG			
		Nested PCR			
	BiIAN	CGCAAGCCCAGCACGCCCCGGTGC	170	61–83 206–230	
	BiIBN	CCGACCTGGATAGGCTGTGTGATG			
		Standard PCR		SS rRNA (X59604)	
	GAU5	TGGCGGCGTTTATTAGTTCG	1,124 bp	409-428	10
	GAU6	CCACGCTTGAAGCACAGGA		1532-1515	
		Standard PCR		AMA-1 (AB481200)	
BI-AMA-FI	TACTGTGACGAGGACGGATC	211 bp	745–764	11, 12, 19	
BI-AMA-RI	CCTCAAAAGCAGATTCGAGT		936–955		
	Standard PCR		AMA-1 (AB481200)		
BI-AMA-F0	GTATCAGCCGCCGACCTCCGTAAGT	738 bp	556–580	15, 16, 17	
BI-AMA-R0	GGCGTCAGACTCCAACGGGGAACCG		1269–1293		
	Nested PCR				
BI-AMA-FI	TACTGTGACGAGGACGGATC	211 bp	745–764		
BI-AMA-RI	CCTCAAAAGCAGATTCGAGT		936-955		

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			RAP-1 $\alpha$ (M60879)	
Standard PCR				
	GAGTCTGCCAAATCCTTAC			
F		879	ND	
	TCCTCTACAGCTGCTTCG			
R				16, 19
Nested PCR				
	AGCTTGCTTTCACAACTCGCC		ND	
F		412		
	TTGGTGCTTTGACCGACGACAT			
R				

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ND= Not Defined

**Table S2.** Primers for the PCR assays for *B. bovis* reviewed in this study.

Species	Primer 5' – 3'	Sequence	Product length (Bp)	Target gene (Genbank No.)	Reference
<i>Babesia bovis</i>				RAP-1 (M38218.1)	
		Standard PCR			
	BoF	CACGAGGAAGGAACTACCGATGTTGA	356	656–681	7, 11, 12, 35, 65
	BoR	CCAAGGAGCTTCAACGTACGAGGTCA		990–1015	
		Nested PCR			
	BoFN	TCAACAAGGTACTCTATATGGCTACC	291	690–715	
BoRN	CTACCGAGCAGAACCTTCTTCACCAT		962–987		
				SSrRNA (L31922)	
	JD127	TTGGCATGGGGGCGACCTTCACCCTCGCCC	275	428–457	8
	JD111	CCAAAGTCAACCAACGGTACGACAGGGTCA		670–699	
				SS rRNA (L31922)	
	GAU9	CTGTCGTACCGTTGGTTGAC		409-428	10
	GAU10	CGCACGGACGGAGACCGA	541 bp	1215-1198	

			SBP-2 (XM_001611726)	
Standard PCR				
F	CCGAATTCCTGGAAGTGGATCTCATGCAACC			
R	ATCTCGAGTCACGAGCACTCTACGGCTTTGCAG	1236	ND	
				14
Nested PCR				
F1	CGAATCTAGGCATATAAGGCAT		ND	
R1	ATCCCCTCCTAAGGTTGGCTAC	580		
			SBP-4 (AB594813)	
Standard PCR				
F	AGTTGTTGGAGGAGGCTAAT			
R	TCCTTCTCGGCGTCCTTTC	907	ND	
				16, 19
Nested PCR				
F1	GAAATCCCTGTTCCAGAG		ND	
R1	TCGTTGATAAACTGCAA	503		

ND= Not Defined.