



SUPPLEMENTARY FIGURE S1. Phylogenetic relationship of *Anaplasma* species based on gene sequences of *gItA* (A) and *groEL* (B).

Note: All trees were mid-point rooted for clarity only. Bootstrap values (>70%) were shown for appropriate nodes. The scale bar represented number of nucleotide substitutions per site. The sequence obtained from ticks was marked in blue. Abbreviation: PCR=polymerase chain reaction.

SUPPLEMENTARY TABLE S1. The PCR primers used in this study.

Gene	Name	Primers (5'-3')	Fragment size
<i>rrs</i>	fd1	AGAGTTTGATCCTGGCTCAG	1,500 bp
	rp2	ACGGCTACCTTGTRACGACTT	
<i>groEL</i>	bovis-groF1	GTATGCARTTTGATCGYGGAT	1,330 bp
	bovis-groF2	GAAGTTGGAAGRGAYGGDGT	
	bovis-groR	GCCTWACAGCDGCAACTTG	
<i>gltA</i>	bovis-gltA-F1	TACATCWACWGTAAGAATGG	1,100 bp
	bovis-gltA-F2	ACWGTAAAGATGGTKGGCTC	
	bovis-gltA-R	CCRGCAGTDCGTCCCAGTGC	
<i>COI</i>	Ron	GGAGCYCCWGATATAGCTTTCCC	488 bp
	Nancy	CCTGGTAAAATTTAAAATATAAACTTC	

Abbreviations: PCR=polymerase chain reaction; *rrs*=16S ribosomal RNA; *groEL*=60-kDa heat shock protein; *gltA*=citrate synthase; *COI*=cytochrome-cytochrome oxidase.