

Table S2. The main parameters of model-based inferred phylogenies.

Data set	charset	Optimal model	ASD ¹	Harmonic mean	min ESS ²	PSRF ³
charset 1	16S	GTR+I+G	0.016207	-76011.93	140.96	1.001
charset 2	18S	SYM+I+G				
charset 3	28S	GTR+I+G				
charset 4	COI_1*	GTR+G				
charset 5	COI_2*	SYM +I+G				
charset 6	COI_3*, H3_2*, H3_3*	SYM+I+G				
charset 7	H3_1*	GTR+G				

¹Average standard deviation of split frequencies.

²Estimated Sample Size.

³Potential Scale Reduction Factor.

*Codon position