

**File S7. Partitioning scheme and best models selected by PartitionFinder2.**

Partition	Best Model
16S	GTR+I+G
18S, 1 <sup>st</sup> codon of H3	TRN+G
2 <sup>nd</sup> codon of H3	JC+I
3 <sup>rd</sup> codon of H3	TVMEF+I
1 <sup>st</sup> codon of COI	SYM+G
2 <sup>nd</sup> codon of COI	TVM+I
3 <sup>rd</sup> codon of COI	K81UF+G