

Table S4. Partitions and evolutionary models used in this study

Data matrix	Subset partitions	Best model
MT nucleotide - Bayesian inference	P1: (<i>atp6</i> _codon1, <i>nad1</i> _codon1, <i>nad2</i> _codon1, <i>nad3</i> _codon1, <i>nad5</i> _codon1)	GTR+F+I+G4
	P2: (<i>atp6</i> _codon2, <i>nad2</i> _codon2, <i>nad3</i> _codon2, <i>nad4l</i> _codon2, <i>nad4</i> _codon2, <i>nad5</i> _codon2, <i>nad6</i> _codon2)	GTR+F+I+G4
	P3: (<i>cox1</i> _codon1)	GTR+F+I+G4
	P4: (<i>cox1</i> _codon2)	GTR+F+I+G4
	P5: (<i>cox2</i> _codon1, <i>cox3</i> _codon1, <i>cytb</i> _codon1)	GTR+F+I+G4
	P6: (<i>cox2</i> _codon2, <i>cox3</i> _codon2, <i>cytb</i> _codon2, <i>nad1</i> _codon2)	GTR+F+I+G4
	P7: (<i>nad4l</i> _codon1, <i>nad6</i> _codon1)	GTR+F+I+G4
	P8: (<i>nad4</i> _codon1)	GTR+F+I+G4
	P9: (<i>rrnL</i>)	GTR+F+I+G4
	P10: (<i>rrnS</i>)	GTR+F+G4
MT nucleotide - Maximum likelihood	P1: (<i>atp6</i> _codon1, <i>nad1</i> _codon1, <i>nad2</i> _codon1, <i>nad3</i> _codon1, <i>nad4L</i> _codon1, <i>nad4</i> _codon1, <i>nad5</i> _codon1, <i>nad6</i> _codon1)	GTR+F+I+I+R5
	P2: (<i>atp6</i> _codon2, <i>nad2</i> _codon2, <i>nad3</i> _codon2, <i>nad4l</i> _codon2, <i>nad4</i> _codon2, <i>nad5</i> _codon2, <i>nad6</i> _codon2)	TVM+F+I+I+R4
	P3: (<i>cox1</i> _codon1)	TIM2+F+I+I+R3
	P4: (<i>cox1</i> _codon2)	TVM+F+I+G4
	P5: (<i>cox2</i> _codon1, <i>cox3</i> _codon1, <i>cytb</i> _codon1)	TIM2+F+I+G4
	P6: (<i>cox2</i> _codon2, <i>cox3</i> _codon2, <i>cytb</i> _codon2, <i>nad1</i> _codon2, <i>rrnL</i>)	TVM+F+I+G4
	P7: (<i>rrnS</i>)	GTR+F+R4
MT amino acid - Bayesian inference	P1: (<i>atp6</i> , <i>nad2</i> , <i>nad4l</i> , <i>nad4</i> , <i>nad5</i> , <i>nad6</i>)	mtInv+F+I+I+R6
	P2: (<i>cox1</i>)	mtZOA+I+I+R4
	P3: (<i>cox2</i> , <i>cox3</i> , <i>cytb</i> , <i>nad1</i> , <i>nad3</i>)	mtInv+F+I+I+R4
MT amino acid - Maximum likelihood	P1: (<i>atp6</i> , <i>nad2</i> , <i>nad4l</i> , <i>nad4</i> , <i>nad5</i> , <i>nad6</i>)	JTT+F+I+G4
	P2: (<i>cox1</i>)	rtREV+F+I+G4
	P3: (<i>cox2</i> , <i>cox3</i> , <i>cytb</i> , <i>nad1</i> , <i>nad3</i>)	WAG+F+I+G4
GF - Bayesian inference	P1: (<i>cox1</i>)	GTR+F+G4
	P2: (<i>I6S</i>)	GTR+F+I+G4
	P3: (<i>I8S</i>)	K2P+G4
	P4: (<i>I28S</i>)	GTR+F+G4
	P5: (<i>H3</i>)	GTR+F+I+G4