

Supplementary Material to “Expanding the mitochondrial genomic toolkit for Polyneoptera: New mitogenomes and evaluation of reduced marker sets for phylogeny and DNA barcoding”

Table S11 - Mantel and Robinson–Foulds (RF) coefficients comparing phylogenetic trees inferred from different mitochondrial datasets in Mantodea.

Dataset	Mantel				RF			
	mt DNA	PCG	Partition	PCG_3rd	mt DNA	PCG	Partition	PCG_3rd
mtDNA	1.000	0.997	0.996	0.988	0	0.08	0.08	0.12
PCG	0.997	1.000	1.000	0.990	0.08	0	0	0.12
Partition	0.996	1.000	1.000	0.991	0.08	0	0	0.12
var	0.993	0.995	0.995	0.985	0.2	0.12	0.12	0.2
COX1	0.951	0.956	0.954	0.932	0.48	0.52	0.52	0.4
COX1_var	0.993	0.996	0.996	0.984	0.24	0.2	0.2	0.32
PCG_3rd	0.988	0.990	0.991	1.000	0.12	0.12	0.12	0
var_3rd	0.992	0.994	0.994	0.991	0.28	0.24	0.24	0.32
COX1_3rd	0.960	0.963	0.964	0.975	0.48	0.52	0.52	0.52
COX1_var_3rd	0.992	0.993	0.993	0.995	0.32	0.36	0.36	0.36
ATP8_3rd	0.633	0.632	0.629	0.568	0.88	0.84	0.84	0.88
ND2_3rd	0.984	0.987	0.987	0.984	0.56	0.56	0.56	0.6
ND6_3rd	0.960	0.962	0.963	0.979	0.72	0.72	0.72	0.76
16s	0.985	0.986	0.986	0.975	0.24	0.24	0.24	0.28
ATP8	0.720	0.718	0.715	0.658	0.76	0.76	0.76	0.8
ND2	0.982	0.986	0.986	0.975	0.56	0.56	0.56	0.56
ND6	0.966	0.968	0.970	0.984	0.64	0.6	0.6	0.6

* Dataset definitions: mtDNA, complete mitochondrial genome; PCG, concatenated mitochondrial protein-coding genes; Partition, protein-coding genes analyzed under a partitioned scheme; var, mitochondrial regions identified as nucleotide-diversity hotspots; COX1_var, variable regions plus the COX1 gene; _3rd, datasets including only third codon positions of protein-coding genes.