Substitution models selected by jModelTest and ModelFinder for each individual gene region and partition. Dataset including outgroups and excluding outgroups.

	Including outgroups	Excluding outgroups
	Substitution model	Substitution model
jModelTest CO1 16S-ND1 28S	GTR+I+G GTR+I+G GTR+I+G	GTR+I+G GTR+I+G GTR+I+G
ModelFinder CO1 16S-ND1 28S	GTR+F+I+G4 GTR+F+I+G4 TIM3+F+I+G4	GTR+F+I+G4 GTR+F+G4 TIM3+F+G4