

Table S3. The partitioning schemes and corresponding substitution models determined by ModelFinder for the PCGAA dataset

Partitions	Models	Amino acid partitions
P1	mtMet + F + R6	ATP6, ND2, ND3, ND6
P2	JTTDCMut + F + R5	ATP8
P3	mtMet + R5	COX1, COX2, COX3, CYTB
P4	mtMet + F + R6	ND1, ND4, ND4L, ND5