**Table S2 The best models of partitioning schemes selected by PartitionFinder for BI analysis.**

|  |  |  |
| --- | --- | --- |
| Partitions | Best Model | Sites included in partition |
| 1 | GTR+I+G | ND1\_pos1 |
| 2 | GTR+I+G | ND3\_pos2, ND1\_pos2 |
| 3 | GTR+I+G | ND1\_pos3 |
| 4 | GTR+I+G | ND2\_pos1 |
| 5 | GTR+I+G | ND2\_pos2 |
| 6 | GTR+G | ND2\_pos3 |
| 7 | GTR+I+G | COI\_pos1 |
| 8 | GTR+G | COI\_pos2 |
| 9 | GTR+I+G | COI\_pos3 |
| 10 | GTR+G | COIII\_pos1, COII\_pos1 |
| 11 | GTR+G | COII\_pos2 |
| 12 | GTR+I+G | COIII\_pos3, COII\_pos3, ND3\_pos3 |
| 13 | GTR+I+G | ATP6\_pos1 |
| 14 | GTR+G | ATP6\_pos2 |
| 15 | GTR+I+G | ND4\_pos3, ATP6\_pos3 |
| 16 | GTR+I+G | Cytb\_pos2, COIII\_pos2 |
| 17 | GTR+I+G | Cytb\_pos1, ND3\_pos1 |
| 18 | GTR+G | ND4\_pos2, ND4L\_pos1 |
| 19 | GTR+I+G | ND4L\_pos2, ND6\_pos2 |
| 20 | GTR+I+G | ND4L\_pos3, ND6\_pos1, ND5\_pos3 |
| 21 | GTR+I+G | ND4\_pos1 |
| 22 | GTR+I+G | ND6\_pos3 |
| 23 | GTR+I+G | Cytb\_pos3 |
| 24 | GTR+I+G | ND5\_pos1 |
| 25 | GTR+I+G | ND5\_pos2 |
| 26 | GTR+I+G | 12S |
| 27 | GTR+I+G | 16S |

**Note.**

Codon positions are represented by pos1, pos2 and pos3, respectively.