**S5 Table. Partitioning and model schemata selected by PartitionFinder**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Subset#** | **Locus** | **bp** | **Model (118 taxa)** | **Model (135 taxa)** |
| 1 | lsu | 1299 | GTR+I+G | GTR+I+G |
| 2 | btub\_pos1 | 379 | GTR+I+G | GTR+I+G |
| 3 | btub\_pos2 | 379 | TVM+I | TVM |
| 4 | btub\_pos3 | 379 | SYM+I+G | SYM+I+G |
| 5 | cox2\_pos1 | 226 | TVM+I+G | TVM+I+G |
| 6 | cox2\_pos2 | 226 | TRN+I+G | TRN+I+G |
| 7 | cox2\_pos3 | 226 | GTR+G | GTR+I+G |
| 8 | nad9\_pos1 | 184 | TVM+I+G | TVM+I+G |
| 9 | nad9\_pos2 | 184 | GTR+I+G | GTR+I+G |
| 10 | nad9\_pos3 | 184 | GTR+I+G | GTR+I+G |
| 11 | rps10\_pos1 | 107 | TIM+I+G | TIM+I+G |
| 12 | rps10\_pos2 | 107 | GTR+G | GTR+G |
| 13 | rps10\_pos3 | 107 | TVM+G | TVM+G |
| 14 | secY\_pos1 | 243 | TVM+I+G | TVM+I+G |
| 15 | secY\_pos2 | 243 | GTR+I+G | GTR+I+G |
| 16 | secY\_pos3 | 243 | GTR+I+G | GTR+I+G |