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| **Strategy** | **Dataset (bp)** | **Evolutionary model** |
| **1**: PartitionFinder partition + model definition | Bases | BIC |
| COI, COII 1 position | 330 | TIMef+I+G |
| COI, COII 2 position | 330 | F81+G |
| COI, COII 3 position | 330 | TVM+G |
| **2**: No partition + jModelTest | Bases | BIC |
| COI and COII datasets | 990 | TIM2+I+G |
| **3**: Filter + no partition + jModelTest | Bases | BIC |
| COI and COII | 852 | TIM2+I+G |
| **4**: Filter + partition + jModelTest; | Bases | BIC |
| COI | 620 | TIM2+I+G |
| COII | 343 | TrN+G |
| **5**: Aliscore + PartitionFinder k-means partition | Bases (total:852) | BIC |
| Partition 1 | 170 | TIMEF |
| Partition 2 | 510 | F81 |
| Partition 3 | 172 | TIM+G |