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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Phylogeny** | **Figure** | **Alignment file** | **# Novel seq** | **# Reference seq** | **Region** | **TaxID references** | **Overlap length (bp)** | **Best model** |
| Summary polymerase | 2A | polymerase\_summary\_align\_  trim | 20 | 267 | Polymerase | All taxid listed below | ~2900 | GTR+G4 |
| Cardiovirus | 2B | cardio\_all\_align | 1 | 75 | Full genome | 12103, 434308 | ~3600 | TIM2+G4 |
| Hepatovirus | 2C | hepato\_all\_align | 3 | 126 | Full genome | 12091, 1714618 | ~4500 | GTR+I+G4 |
| Kobuvirus | 2D | kobu\_all\_align | 4 | 179 | Full genome | 194960, 655314 | ~1090 | GTR+I+G4 |
| Kunsagivirus | 2E | kunsagi\_all\_align | 1 | 4 | Full genome | 1755589 | ~6700 | TIM2+G4 |
| Mischivirus | 2F | mischi\_full\_align | 1 | 16 | Full genome | 1511778 | ~3200 | GTR+G4 |
| Unclassified bat picornavirus | 2G | bat\_picorna\_all\_align | 5 | 26 | Full genome | 2169640, 2788549, 1281456 | ~2300 | GTR+G4 |
| Sapelovirus | 2H | sapelo\_all\_align | 3 | 54 | Full genome | 686982, 1073966 | ~7200 | GTR+G4 |
| Teschovirus | 2I | tescho\_full\_align | 3 | 33 | Full genome | 118139, 2004714 | ~3200 | TIM2+G4 |
| Sapovirus | 2J | sapo\_all\_align | 5 | 213 | Full genome | 95341, 371833 | ~1800 | GTR+I+G4 |