|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Model** | **#Param** | **BIC** | **AICc** | **lnL** | **Invariant** | **Gamma** | **R** | **Freq A** | **Freq T** | **Freq C** | **Freq G** |
| HKY+I | 16 | 1603.2 | 1521.3 | -744.4 | 0.35 | n/a | 1.39 | 0.14 | 0.46 | 0.09 | 0.30 |
| HKY+G | 16 | 1603.4 | 1521.4 | -744.5 | n/a | 0.45 | 1.70 | 0.14 | 0.46 | 0.09 | 0.30 |
| TN93+G | 17 | 1608.3 | 1521.3 | -743.4 | n/a | 0.44 | 1.98 | 0.14 | 0.46 | 0.09 | 0.30 |
| HKY+G+I | 17 | 1608.4 | 1521.3 | -743.4 | 0.31 | 1.84 | 1.72 | 0.14 | 0.46 | 0.09 | 0.30 |
| TN93+I | 17 | 1610.2 | 1523.1 | -744.3 | 0.35 | n/a | 1.41 | 0.14 | 0.46 | 0.09 | 0.30 |
| TN93+G+I | 18 | 1614.2 | 1522.1 | -742.8 | 0.26 | 1.13 | 1.95 | 0.14 | 0.46 | 0.09 | 0.30 |
| GTR+G | 20 | 1624.0 | 1521.7 | -740.5 | n/a | 0.41 | 2.25 | 0.14 | 0.46 | 0.09 | 0.30 |
| HKY | 15 | 1626.6 | 1549.7 | -759.7 | n/a | n/a | 0.88 | 0.14 | 0.46 | 0.09 | 0.30 |
| GTR+I | 20 | 1628.2 | 1525.8 | -742.6 | 0.35 | n/a | 1.42 | 0.14 | 0.46 | 0.09 | 0.30 |
| TN93 | 16 | 1631.6 | 1549.7 | -758.6 | n/a | n/a | 0.90 | 0.14 | 0.46 | 0.09 | 0.30 |
| GTR+G+I | 21 | 1634.4 | 1527.0 | -742.1 | 0.29 | 2.06 | 1.24 | 0.14 | 0.46 | 0.09 | 0.30 |
| GTR | 19 | 1648.7 | 1551.4 | -756.4 | n/a | n/a | 0.91 | 0.14 | 0.46 | 0.09 | 0.30 |
| T92+I | 14 | 1707.6 | 1635.8 | -803.7 | 0.32 | n/a | 0.87 | 0.30 | 0.30 | 0.20 | 0.20 |
| T92+G | 14 | 1709.2 | 1637.5 | -804.6 | n/a | 0.89 | 0.90 | 0.30 | 0.30 | 0.20 | 0.20 |
| JC+I | 12 | 1712.6 | 1651.1 | -813.4 | 0.29 | n/a | 0.50 | 0.25 | 0.25 | 0.25 | 0.25 |
| JC+G | 12 | 1714.2 | 1652.7 | -814.2 | n/a | 1.11 | 0.50 | 0.25 | 0.25 | 0.25 | 0.25 |
| T92+G+I | 15 | 1714.7 | 1637.9 | -803.7 | 0.32 | 200.00 | 0.88 | 0.30 | 0.30 | 0.20 | 0.20 |
| K2+I | 13 | 1715.5 | 1648.8 | -811.3 | 0.30 | n/a | 0.79 | 0.25 | 0.25 | 0.25 | 0.25 |
| T92 | 13 | 1715.9 | 1649.3 | -811.5 | n/a | n/a | 0.76 | 0.30 | 0.30 | 0.20 | 0.20 |
| JC | 11 | 1717.6 | 1661.1 | -819.5 | n/a | n/a | 0.50 | 0.25 | 0.25 | 0.25 | 0.25 |
| JC+G+I | 13 | 1719.8 | 1653.1 | -813.4 | 0.29 | 200.00 | 0.50 | 0.25 | 0.25 | 0.25 | 0.25 |
| K2 | 12 | 1721.2 | 1659.6 | -817.7 | n/a | n/a | 0.73 | 0.25 | 0.25 | 0.25 | 0.25 |
| K2+G | 13 | 1723.6 | 1657.0 | -815.3 | n/a | 0.71 | 1.49 | 0.25 | 0.25 | 0.25 | 0.25 |
| K2+G+I | 14 | 1730.6 | 1658.9 | -815.3 | 0.20 | 1.51 | 1.49 | 0.25 | 0.25 | 0.25 | 0.25 |