|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Model** | **#Param** | **BIC** | **AICc** | **lnL** | **Invariant** | **Gamma** | **R** | **Freq A** | **Freq T** | **Freq C** | **Freq G** |
| K2+G | 11 | 3705.3 | 3637.2 | -1807.6 | n/a | 0.27 | 1.05 | 0.25 | 0.25 | 0.25 | 0.25 |
| K2+I | 11 | 3708.1 | 3639.9 | -1808.9 | 0.62 | n/a | 1.02 | 0.25 | 0.25 | 0.25 | 0.25 |
| K2+G+I | 12 | 3713.2 | 3638.9 | -1807.4 | 0.28 | 0.48 | 1.06 | 0.25 | 0.25 | 0.25 | 0.25 |
| JC+G | 10 | 3713.9 | 3651.9 | -1815.9 | n/a | 0.30 | 0.50 | 0.25 | 0.25 | 0.25 | 0.25 |
| T92+G | 12 | 3714.3 | 3640.0 | -1807.9 | n/a | 0.27 | 1.05 | 0.25 | 0.25 | 0.25 | 0.2516 |
| JC+I | 10 | 3716.3 | 3654.4 | -1817.2 | 0.61 | n/a | 0.50 | 0.25 | 0.25 | 0.25 | 0.25 |
| JC+G+I | 11 | 3721.9 | 3653.7 | -1815.8 | 0.25 | 0.51 | 0.50 | 0.25 | 0.25 | 0.25 | 0.25 |
| T92+G+I | 13 | 3722.2 | 3641.7 | -1807.8 | 0.28 | 0.48 | 1.06 | 0.25 | 0.25 | 0.25 | 0.2516 |
| GTR+G | 18 | 3725.1 | 3613.6 | -1788.7 | n/a | 0.28 | 0.99 | 0.24 | 0.26 | 0.23 | 0.2703 |
| HKY+G | 14 | 3726.4 | 3639.7 | -1805.8 | n/a | 0.25 | 1.10 | 0.24 | 0.26 | 0.23 | 0.2703 |
| HKY+I | 14 | 3728.7 | 3642.0 | -1807.0 | 0.62 | n/a | 1.03 | 0.24 | 0.26 | 0.23 | 0.2703 |
| GTR+I | 18 | 3729.3 | 3617.9 | -1790.8 | 0.61 | n/a | 0.97 | 0.24 | 0.26 | 0.23 | 0.2703 |
| TN93+G | 15 | 3732.0 | 3639.1 | -1804.5 | n/a | 0.26 | 1.11 | 0.24 | 0.26 | 0.23 | 0.2703 |
| GTR+G+I | 19 | 3733.0 | 3615.4 | -1788.6 | 0.21 | 0.42 | 1.00 | 0.24 | 0.26 | 0.23 | 0.2703 |
| HKY+G+I | 15 | 3734.5 | 3641.6 | -1805.8 | 0.15 | 0.33 | 1.10 | 0.24 | 0.26 | 0.23 | 0.2703 |
| TN93+G+I | 16 | 3740.1 | 3641.0 | -1804.4 | 0.18 | 0.36 | 1.11 | 0.24 | 0.26 | 0.23 | 0.2703 |
| T92+I | 12 | 3748.0 | 3673.7 | -1824.8 | 0.25 | n/a | 0.87 | 0.25 | 0.25 | 0.25 | 0.2516 |
| TN93+I | 15 | 3749.8 | 3656.9 | -1813.4 | 0.42 | n/a | 0.92 | 0.24 | 0.26 | 0.23 | 0.2703 |
| K2 | 10 | 3752.3 | 3690.4 | -1835.2 | n/a | n/a | 0.85 | 0.25 | 0.25 | 0.25 | 0.25 |
| JC | 9 | 3756.5 | 3700.8 | -1841.4 | n/a | n/a | 0.50 | 0.25 | 0.25 | 0.25 | 0.25 |
| T92 | 11 | 3761.2 | 3693.1 | -1835.5 | n/a | n/a | 0.85 | 0.25 | 0.25 | 0.25 | 0.2516 |
| HKY | 13 | 3772.6 | 3692.1 | -1833.0 | n/a | n/a | 0.86 | 0.24 | 0.26 | 0.23 | 0.2703 |
| TN93 | 14 | 3778.8 | 3692.1 | -1832.0 | n/a | n/a | 0.86 | 0.24 | 0.26 | 0.23 | 0.2703 |
| GTR | 17 | 3779.4 | 3674.2 | -1820.0 | n/a | n/a | 0.69 | 0.24 | 0.26 | 0.23 | 0.2703 |