|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Model** | **#Param** | **BIC** | **AICc** | **lnL** | **Invariant** | **Gamma** | **R** | **Freq A** | **Freq T** | **Freq C** | **Freq G** |
| K2 | 12 | 1265.2 | 1197.4 | -586.6 | n/a | n/a | 1.78 | 0.25 | 0.25 | 0.25 | 0.25 |
| K2+G | 13 | 1268.6 | 1195.2 | -584.5 | n/a | 0.21 | 1.98 | 0.25 | 0.25 | 0.25 | 0.25 |
| JC | 11 | 1268.8 | 1206.6 | -592.2 | n/a | n/a | 0.50 | 0.25 | 0.25 | 0.25 | 0.25 |
| T92 | 13 | 1272.5 | 1199.1 | -586.5 | n/a | n/a | 1.78 | 0.26 | 0.26 | 0.24 | 0.24 |
| K2+I | 13 | 1272.6 | 1199.1 | -586.5 | 0.06 | n/a | 1.79 | 0.25 | 0.25 | 0.25 | 0.25 |
| JC+G | 12 | 1272.6 | 1204.8 | -590.3 | n/a | 0.25 | 0.50 | 0.25 | 0.25 | 0.25 | 0.25 |
| T92+G | 14 | 1276.0 | 1196.9 | -584.3 | n/a | 0.21 | 1.97 | 0.26 | 0.26 | 0.24 | 0.24 |
| K2+G+I | 14 | 1276.1 | 1197.0 | -584.4 | 0.48 | 0.70 | 2.00 | 0.25 | 0.25 | 0.25 | 0.25 |
| JC+I | 12 | 1276.2 | 1208.4 | -592.1 | 0.05 | n/a | 0.50 | 0.25 | 0.25 | 0.25 | 0.25 |
| HKY | 15 | 1278.1 | 1193.4 | -581.6 | n/a | n/a | 1.79 | 0.25 | 0.27 | 0.18 | 0.29 |
| T92+I | 14 | 1279.8 | 1200.7 | -586.2 | 0.09 | n/a | 1.79 | 0.26 | 0.26 | 0.24 | 0.24 |
| JC+G+I | 13 | 1280.1 | 1206.6 | -590.2 | 0.44 | 0.73 | 0.50 | 0.25 | 0.25 | 0.25 | 0.25 |
| HKY+G | 16 | 1281.3 | 1190.9 | -579.3 | n/a | 0.18 | 2.03 | 0.25 | 0.27 | 0.18 | 0.29 |
| T92+G+I | 15 | 1283.5 | 1198.7 | -584.3 | 0.48 | 0.70 | 1.99 | 0.26 | 0.26 | 0.24 | 0.24 |
| HKY+I | 16 | 1284.2 | 1193.9 | -580.8 | 0.29 | n/a | 1.81 | 0.25 | 0.27 | 0.18 | 0.29 |
| TN93 | 16 | 1285.8 | 1195.4 | -581.6 | n/a | n/a | 1.79 | 0.25 | 0.27 | 0.18 | 0.29 |
| HKY+G+I | 17 | 1288.7 | 1192.7 | -579.2 | 0.52 | 0.69 | 2.07 | 0.25 | 0.27 | 0.18 | 0.29 |
| TN93+G | 17 | 1288.9 | 1192.9 | -579.3 | n/a | 0.17 | 2.05 | 0.25 | 0.27 | 0.18 | 0.29 |
| TN93+I | 17 | 1292.9 | 1196.9 | -581.3 | 0.12 | n/a | 1.80 | 0.25 | 0.27 | 0.18 | 0.29 |
| TN93+G+I | 18 | 1296.3 | 1194.7 | -579.2 | 0.53 | 0.68 | 2.10 | 0.25 | 0.27 | 0.18 | 0.29 |
| GTR | 19 | 1308.5 | 1201.3 | -581.5 | n/a | n/a | 1.33 | 0.25 | 0.27 | 0.18 | 0.29 |
| GTR+G | 20 | 1310.4 | 1197.6 | -578.6 | n/a | 0.20 | 1.98 | 0.25 | 0.27 | 0.18 | 0.29 |
| GTR+I | 20 | 1311.5 | 1198.6 | -579.1 | 0.74 | n/a | 1.70 | 0.25 | 0.27 | 0.18 | 0.29 |
| GTR+G+I | 21 | 1317.9 | 1199.4 | -578.5 | 0.50 | 0.70 | 2.02 | 0.25 | 0.27 | 0.18 | 0.29 |