**Table S2.** Alkaike Information Criterion (AIC) values for Malayan tapir MHC genes alignments with other species for phylogenetic analysis model selection. Model with lowest AIC value was selected for phylogenetic construction. lnL = log-Likelihood value

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Exon 2 | Exon 3 | DQA | DQB | DRA | DRB | Alpha domain (DRA and DQA) | Beta domain (DRB and DQB) |
| **Model name** | **AIC (lnL)** | **AIC (lnL)** | **AIC (lnL)** | **AIC (lnL)** | **AIC (lnL)** | **AIC (lnL)** | **AIC (lnL)** | **AIC (lnL)** |
| JC: Jukes-Cantor  (model 1) | 2460.3  (-1230.2) | 2300.2  (-1150.1) | 3050.4  (-1525.2) | 2134.2  (-1067.1) | 988.2  (-494.1) | 3604.0  (-1802.0) | 2420.9  (-1210.4) | 4335.0  (-2167.5) |
| JC: Jukes-Cantor plus Gamma  (model 3) | 2407.5  (-1202.8) | 2221.4  (-1109.7) | 3003.9  (-1500.9) | 2076.5  (-1037.3) | 983.0  (-490.5) | 3481.5  (-1739.7) | 2362.6  (-1180.3) | 4150.8  (-2074.4) |
| F81: Felsenstein 1981  (model 5) | 2448.3  (-1221.2) | 2281.2  (-1137.6) | 3055.3  (-1524.7) | 2116.6  (-1055.3) | 1008.4  (-501.2) | 3597.7  (-1795.9) | 2435.8  (-1214.9) | 4325.7  (-2159.9) |
| F81: Felsenstein 1981 plus Gamma  (model 7) | 2392.1  (-1192.1) | 2198.6  (-1095.3) | 30 09.5 (-1500.7) | 2054.2  (-1023.1) | 1003.6  (-497.8) | 3477.7  (-1734.8) | 2380.9  (-1186.4) | 4140.7  (-2066.3) |
| K80: Kimura 2-parameter  (model 9) | 2438.3  (-1218.2) | 2296.8  (-1147.4) | 2982.8  (-1490.4) | 2131.3  (-1064.7) | 983.5  (-490.8) | 3600.0  (-1799.0) | 2383.0  (-1190.5) | 4328.9  (-2163.4) |
| K80: Kimura 2-parameter plus Gamma  (model 11) | 2382.4  (-1189.2) | 2217.8  (-1106.9) | 2932.2  (-1464.1) | 2073.3  (-1034.7) | 978.6  (-487.3) | 3476.7  (-1736.4) | 2318.3  (-1157.2) | 4144.3  (-2070.2) |
| HKY: Hasegawa-Kishino-Yano  (model 13) | 2427.4  (-1209.7) | 2278.5  (-1135.3) | 2987.5  (-1489.7) | 2113.4  (-1052.7) | 1003.6  (-497.8) | 3594.7  (-1793.4) | 2398.2  (-1195.1) | 4319.9  (-2155.9) |
| HKY: Hasegawa-Kishino-Yano plus Gamma  (model 15) | 2364.2  (-1177.1) | 2196.0  (-1093.0) | 2938.1  (-1464.0) | 2049.7  (-1019.8) | 998.8  (-494.4) | 3473.5  (-1731.7) | 2338.5  (-1164.3) | 4133.5  (-2061.7) |
| TrN: Tamura-Nei  (model 21) | 2424.0  (-1207.0) | 2280.4  (-1135.2) | 2986.7  (-1488.3) | 2112.7  (-1051.4) | 993.9  (-491.9) | 3592.7  (-1791.4) | 2394.6  (-1192.3) | 4317.6  (-2153.8) |
| TrN: Tamura-Nei plus Gamma  (model 23) | 2363.2  (-1175.6) | 2197.8  (-1092.9) | 2938.9  (-1463.4) | 2049.6  (-1018.8) | 990.3  (-489.1) | 3472.7  (-1730.4) | 2336.6  (-1162.3) | 4132.0  (-2060.0) |
| GTR: General Time Reversible  (model 53) | 2424.1  (-1204.1) | 2285.2  (-1134.6) | 2983.0  (-1483.5) | 2115.8  (-1049.9) | 985.7  (-484.8) | 3589.9  (-1786.9) | 2372.3  (-1178.2) | 4305.8  (-2144.9) |
| GTR: General Time Reversible plus Gamma  (model 55) | 2358.7  (-1170.4) | 2200.5  (-1091.2) | 3050.4  (-1525.2) | 2052.3  (-1017.1) | 983.4  (-482.7) | 3467.5  (-1724.8) | 2323.0  (-1152.5) | 4114.3  (-2048.2) |