ModelFinder

Best-fit model according to BIC: MK+FQ+ASC+G4

List of models sorted by BIC scores:

Model	LogL	AIC	w-AIC	AICc	w-AICc	BIC	w-BIC
MK+FQ+ASC+G4	-1710.148	3516.296	+ 0.615	3614.296	+ 0.957	3639.882	+ 0.877
MK+FQ+ASC+R2	-1709.905	3517.809	+ 0.289	3622.064	- 0.0197	3643.970	+ 0.114
MK+FQ+ASC	-1718.085	3530.170	- 0.000598	3622.252	- 0.0179	3651.182	- 0.00309
MK+FQ+ASC+R3	-1709.051	3520.102	+ 0.0918	3637.969	- 6.92e-06	3651.413	- 0.00275
MK+FQ+G4	-1716.018	3528.036	- 0.00174	3626.036	- 0.0027	3651.622	- 0.00248
MK+FQ+R2	-1715.286	3528.571	- 0.00133	3632.827	- 9.06e-05	3654.732	- 0.000523
MK+FQ	-1719.970	3533.940	- 9.07e-05	3626.022	- 0.00272	3654.952	- 0.000468
MK+FQ+R3	-1715.120	3532.240	- 0.000212	3650.106	- 1.6e-08	3663.550	- 6.36e-06

AIC, w-AIC : Akaike information criterion scores and weights.
AICc, w-AICc : Corrected AIC scores and weights.
BIC, w-BIC : Bayesian information criterion scores and weights.

Plus signs denote the 95% confidence sets.
Minus signs denote significant exclusion.

SUBSTITUTION PROCESS

Model of substitution: MK+FQ+ASC+G4

State frequencies: (equal frequencies)

Model of rate heterogeneity: Gamma with 4 categories
Gamma shape alpha: 2.4954

Category	Relative_rate	Proportion
1	0.3460	0.2500
2	0.6991	0.2500

3	1.0786	0.2500
4	1.8763	0.2500

Relative rates are computed as MEAN of the portion of the Gamma distribution falling in the category.