

TABLE 2. The tree prior parameterization, clock, and substitution models used for eight analyses of penguin morphological data with marginal likelihoods for model testing

#	Partitions	Gamma	Lewis model	Clock	Parameterization from two runs	Marginal log-likelihood
1			Mk	Strict	d, v, s	$-2644.21, -2644.16$
2		G	Mk	Strict	d, v, s	$-2641.62, -2642.94$
3	P		Mk	Strict	d, v, s	$-1875.35, -1876.3$
4	P	G	Mk	Strict	d, v, s	$-1859.84, -1860.37$
5	P		Mk	Strict	$\lambda, \mu, \psi (\mu < \lambda)$	$-1874.14, -1876.14$
6	P		Mkv	Strict	d, v, s	$-1873.28, -1871.63$
7	P	G	Mkv	Strict	d, v, s	$-1842.82, -1842.2$
8 ^a	P	G	Mkv	Relaxed	d, v, s	$-1827.27, -1828.02$

^aThe analysis under model 8 has the largest marginal log-likelihood and was thus the model best supported by