

Table S2 CodeML analysis of mitochondrial protein-encoding genes (13 genes) (choosing *C. songi* as the foreground branch)

	Model	np	Ln L	Model compared	LRT P-value	Positive sites
Branch model	Two ratio	25	-85235.524365	Model 0 vs. Two ratio Model 2	0.000000000	
	Model 2					
Branch site model	Model 0	24	-85287.991127	Model A vs. Model A null	0.000000000	Not Allowed
	Model A	27	-85235.524365			
	Model A null	26	-83679.125056			
Clade model	CmC	28	-81532.325428	M2a_rel vs CmC	0.000000000	Not Allowed
	M2a_rel	27	-81586.915580			