

Table S8. Likelihood ratio test statistics G for observed site frequency spectra of *Ckma* and expectation according to different coalescent models.

Model	G	Comparison	$2\Delta G$	df
I. Kingman	149.26			
II. Beta($2 - \alpha, \alpha$)	116.21	I vs II	66.10	1
III. point-mass	114.42	I vs III	69.69	1