

**Table S10.** The  $\ell_2$  distance and approximate log Likelihood (Eldon et al., 2015) between the observed site frequency spectra and expectation according to the algebraic ( $\mathbf{A}, \gamma$ ) and exponential ( $\mathbf{E}, \beta$ ) growth models (Eldon et al., 2015) for the three genes, *Ckma*, *HbA2*, and *Myg*.

Locus	$\mathbf{A}, \gamma$		$\mathbf{E}, \beta$	
	$\ell_2$	$\log L$	$\ell_2$	$\log L$
<i>Ckma</i>	10.09	154.11	9.32	165.83
<i>HbA2</i>	6.95	11.21	6.87	10.16
<i>Myg</i>	2.43	51.98	2.83	50.44