

Table E2: Estimation of d_S and d_N between *Drosophila melanogaster* and *D. simulans* *GstD1* genes

Assumptions	κ	S	N	d_S	d_N	ω	ℓ
Fequal + $\kappa = 1$	1.0	?	?	?	?	?	?
Fequal + $\kappa = \text{estimated}$?	?	?	?	?	?	?
F3x4 + $\kappa = 1$	1.0	?	?	?	?	?	?
F3x4 + $\kappa = \text{estimated}$?	?	?	?	?	?	?
F61 + $\kappa = 1$	1.0	?	?	?	?	?	?
F61 + $\kappa = \text{estimated}$?	?	?	?	?	?	?

κ = transition/transversion rate ratio

S = number of synonymous sites

N = number of nonsynonymous sites

$\omega = d_N/d_S$

ℓ = log likelihood score