

Table S1: Models of molecular evolution by genes and codons

Gene (number of base pairs)	Position	Model
<b><i>wingless</i></b>	1st – first position	TRN+I
	2nd – second position	TRN+I
	3rd – third position	TRN+G
<b><i>elongation factor-1 alpha F1</i></b>	1st – first position	TRN+I
	2nd – second position	HKY+I
	3rd – third position	TRN+G
<b><i>elongation factor-1 alpha F2</i></b>	1st – first position	TRN+I
	2nd – second position	HKY+I
	3rd – third position	TRN+G
<b><i>long-wavelength rhodopsin</i></b>	1st – first position	HKY+I
	2nd – second position	F81+I
	3rd – third position	TRN+G
<b><i>topoisomerase I</i></b>	1st – first position	TRN+I
	2nd – second position	HKY+I
	3rd – third position	HKY+I