

Table S.4 - Insertion/deletion rates inferred from the maximum likelihood analysis assuming different rates for external and internal branches (cut-off: expect value less than 10^{-10} and $> 70\%$ match length)

Rate	Reversible		Deleted once ^a	
	MLE	LnL	MLE	LnL
constant μ	0.97	-8257.3	0.93	-8329.8
$\mu_1=\mu_2=\mu_3=\mu_4=\mu_5=\mu_6$ (external)	1.04	-8254.8	1.09	-8309.9
$\mu_7 = \mu_8$ (internal)	0.83		0.57	

^aGenes can not be regained after deletion.