

models compared		M0 (one ratio) vs. M3 (discrete)	M1a (neutral) vs. M2a (selection)	M7 (beta) vs. M8 (beta& ω)	
TAAR3 <i>primate ORF lineages</i>	df	4	2	2	
	2 $\Delta\ell$	19.13	0.00	0.00	
	P-value	0.0007	1	1	
	<i>14 non-primate mammals</i>	df	4	2	2
		2 $\Delta\ell$	246.12	0.00	0.01
		P-value	< 0.0001	1	0.9950
TAAR4 <i>primate ORF lineages</i>	df	4	2	2	
	2 $\Delta\ell$	27.52	0.00	1.96	
	P-value	< 0.0001	1	0.3753	
	<i>14 non-primate mammals</i>	df	4	2	2
		2 $\Delta\ell$	319.34	0.00	4.40
		P-value	< 0.0001	1	0.1108
TAAR5 <i>primate ORF lineages</i>	df	4	2	2	
	2 $\Delta\ell$	10.58	0.00	0.52	
	P-value	0.0317	1	0.7711	
	<i>14 non-primate mammals</i>	df	4	2	2
		2 $\Delta\ell$	328.13	8.94	18.82
		P-value	< 0.0001	0.0114	< 0.0001

LRT tests were performed between nested models. df, degrees of freedom, equal to differences in the number of parameters between models; 2 $\Delta\ell$, likelihood ratio statistic is distributed approximately as χ^2