

Additional File 2 – Andersson et al.

Summary of the datasets used in the phylogenetic analyses.

	<i>priS</i>	<i>fprA</i>	<i>nagB</i> -short	<i>nagB</i> -long	<i>adhE</i>
Total number of taxa in dataset	76	125	164	14	68
Number of excluded redundant sequences (>95% identical)	13	15	27	0	18
Number of truncated sequences (<67% of alignment length)	1	1	2	1	0
Number of taxa included in the phylogenetic analysis	62	109	135	13	50
Number of unambiguously aligned aa positions	417	269	229	560	796
Preferred substitution model (ML)	WAG+I+G	WAG+G	WAG+G	RtREV+G	WAG+I+G
P _{inv} (ML)	0.085	0	0	0	0.092
α (ML)	1.319	1.951	1.227	0.871	1.386
Preferred ASRV model (grouped aa)	I+G	I+G	I+G	G	I+G
<i>p_t</i> (grouped aa)	0.46	0.00	0.02	0.60	0.00
P _{sim} (grouped aa)	0.15	0.00	0.00	0.57	0.00
P _{chi-square} (grouped aa)	1.00	0.15	1.00	1.00	0.89
P _{sim} (original dataset)	0.00	0.00	0.00	0.00	0.00
P _{chi-square} (original dataset)	1.00	0.00	0.00	1.00	1.00

p_t: Values for the MCMC posterior predictive simulations [1]

P_{sim}: P values for composition homogeneity test using simulations to get the null distribution [1]

P_{chi-square}: P values for composition homogeneity test using the χ^2 curve to get the null distribution [1]

References

1. Foster PG: **Modeling compositional heterogeneity.** *Syst Biol* 2004, **53**:485-495.