

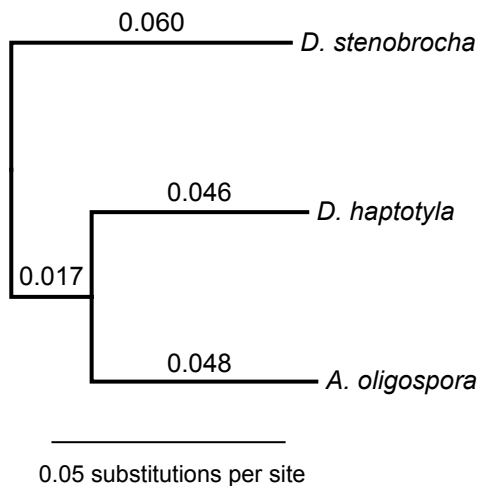
A

Number of RNAs with motif matches in “ancestral Puf3 targets”

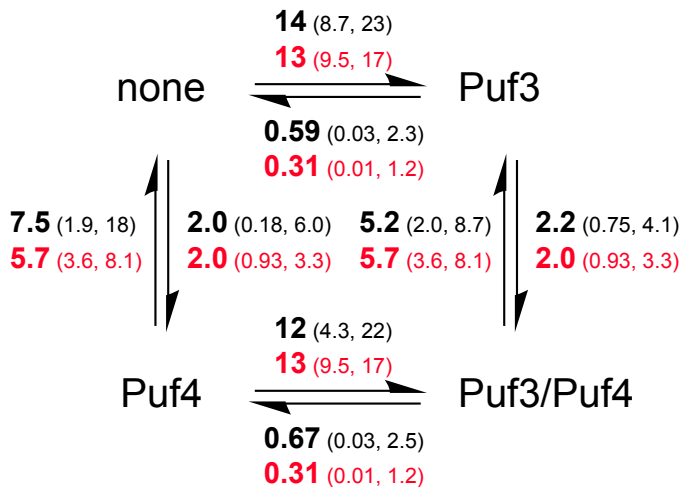
	Puf3 and Puf4*	Puf3 only	Puf4 only*	neither	odds-ratio (95% CI)	p-value
<i>D. stenobrocha</i>	38	71	10	15	0.80 (0.32 - 2.01)	0.65
<i>D. haptotyla</i>	46	63	16	24	1.09 (0.51 - 2.32)	0.85
<i>A. oligospora</i>	49	74	9	19	1.39 (0.56 - 3.58)	0.52

* The Puf4 submotif UGUA[ACU].[AU].UA was removed from this analysis to prevent overlap with the Puf3 motif.

B



C



■ rates in “dependence” model

■ rates in “independence” model

median rate (95% credible interval)

Comparing Model Likelihoods:

$\log[\text{harmonic mean}(\text{dependence model})] = -242.2$

$\log[\text{harmonic mean}(\text{independence model})] = -234.5$

$\log \text{ Bayes Factor} = 2 * (-242.2 - -234.5) = -15$

$\log \text{ Bayes Factor} < 0$, favoring **independence model**