

Based on the likelihood ratio test, *episodic diversifying selection* has acted on **8** sites in this dataset ($p \le 0.1$).

MEME analysis (v3.0) was performed on the alignment from /Users/sergei/Dropbox/Talks/VEME-current/data/HIV-sets.fas using HyPhy v2.5.40.

p-value threshold 0.1 Update

Suggested citation: Detecting Individual Sites Subject to Episodic Diversifying Selection.

PLoS Genet 8(7): e1002764.

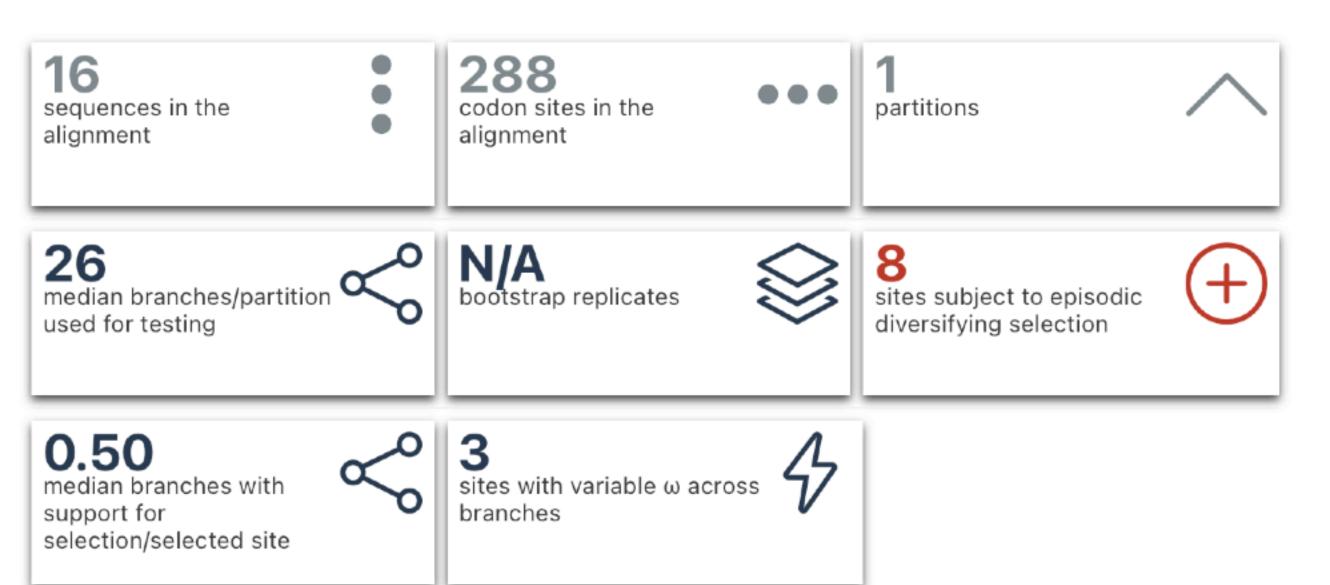
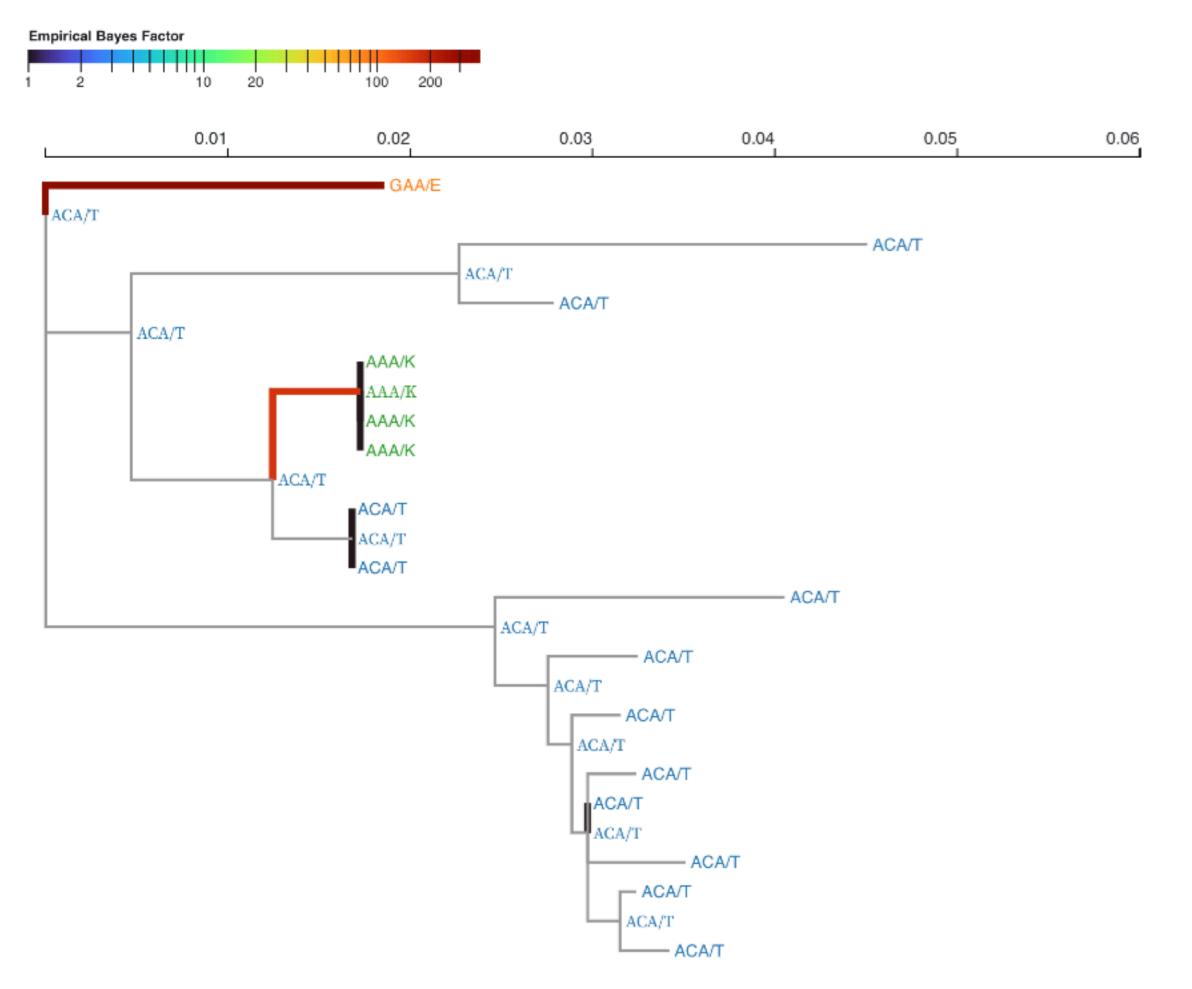


Table 1. Detailed site-by-site results from the MEME analysis

Part.	Codon	α	β-	p ⁻	β+	p ⁺	LRT	p-value	# branches under selection	MEME LogL	FEL LogL	Variation p
1	19	0	0	0.945	2,749.03	0.055	6.602	0.017	0	-14.847	-11.568	0.038
1	161	0	0	0.82	114.386	0.18	7.579	0.01	0	-16.568	-14.144	0.089
1	165	0	0	0.774	52.349	0.226	4.247	0.056	0	-15.506	-14.441	0.345
1	225	0	0	0.747	47.804	0.253	3.708	0.074	2	-13.869	-13.061	0.445
1	264	0	0	0.894	168.831	0.106	3.613	0.077	0	-11.753	-10.172	0.206
1	272	0	0	0.853	40.182	0.147	3.325	0.09	1	-10.449	-9.374	0.341
1	274	2.785	2.785	0.947	10,000	0.053	4.981	0.038	1	-20.161	-17.673	0.083
1	282	0	0	0	8.192	1	3.652	0.076	0	-19.326	-19.324	0.999



- Where in the tree is there evidence for selection?
- Can use exploratory Empirical Bayes Factor analysis to find "hotspots"

Not a "strict" statistical test!