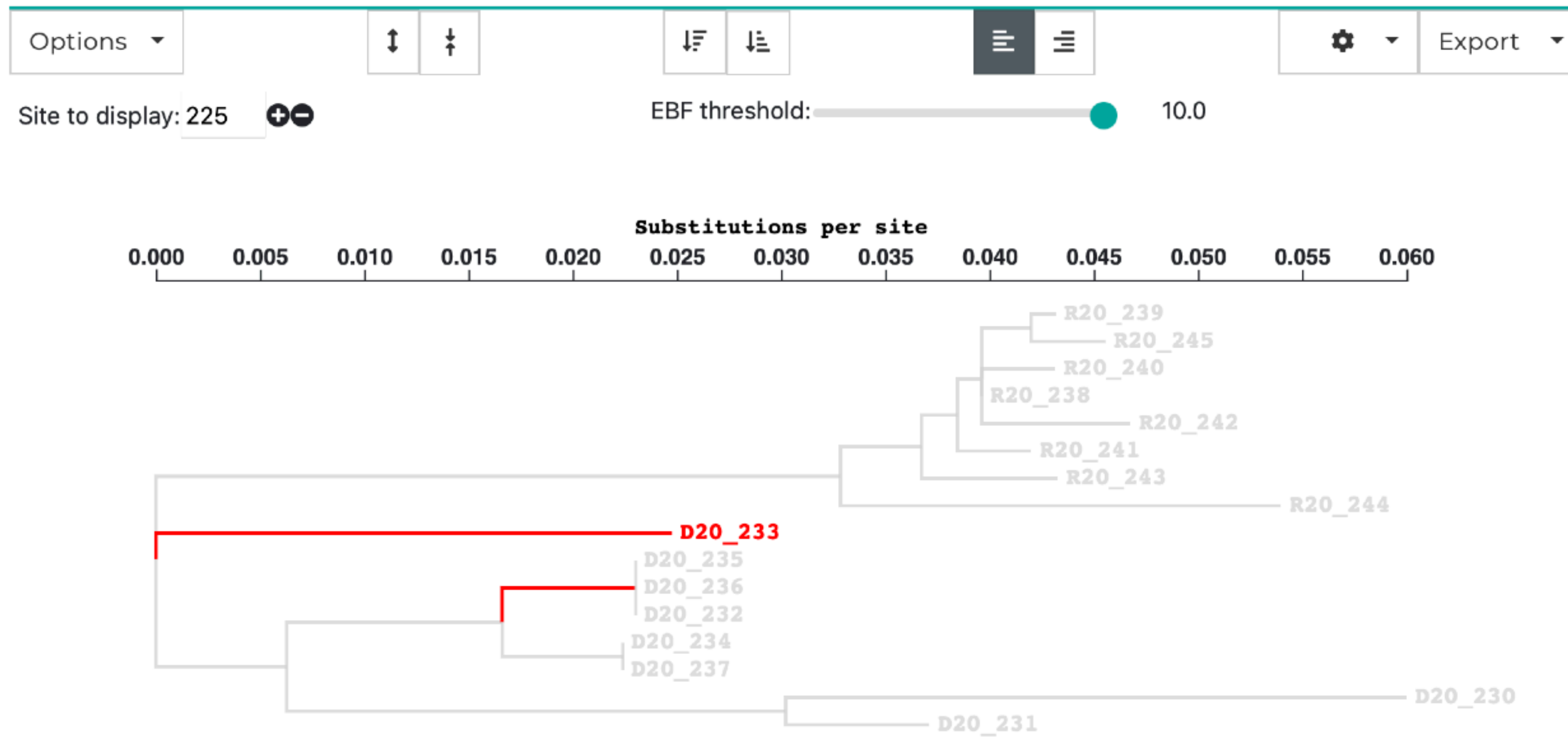


## Fitted tree



- Where in the tree is there evidence for selection?
- Can use exploratory Empirical Bayes Factor analysis to find “hotspots”
- Not a “strict” statistical test!

# Mixed Effects Model of Evolution results summary

INPUT DATA | WestNileVirus\_NS3.fas | 19 sequences | 619 sites Export

MEME found evidence of  
+ episodic positive/diversifying selection at 4 sites  
with p-value threshold of 0.1.

See [here](#) for more information about the MEME method.  
Please cite [PMID 22807683](#) if you use this result in a publication, presentation, or other scientific work.

## MEME Table

Sites that yielded a statistically significant result are highlighted in green.

Showing entries 1 through 20 out of 619. Export Table to CSV

Site	Partition	$\alpha$	$\beta^-$	$p^-$	$\beta^+$	$p^+$	LRT	p-value	# branches under selection	Total branch length	MEME LogL	FEL LogL
249	1	0.00	0.00	0.00	2.71	1.00	7.88	0.01	0.00	0.00	-34.22	-34.22
557	1	0.27	0.00	0.97	149.17	0.03	5.52	0.03	1.00	0.00	-17.69	-14.17
87	1	1.79	0.00	0.95	31.42	0.05	3.47	0.08	1.00	0.00	-23.52	-16.73
521	1	0.96	0.00	0.96	97.61	0.04	3.60	0.08	1.00	0.00	-17.26	-14.31

## Fitted tree



hyphy meme --alignment WestNileVirus\_NS3.fas