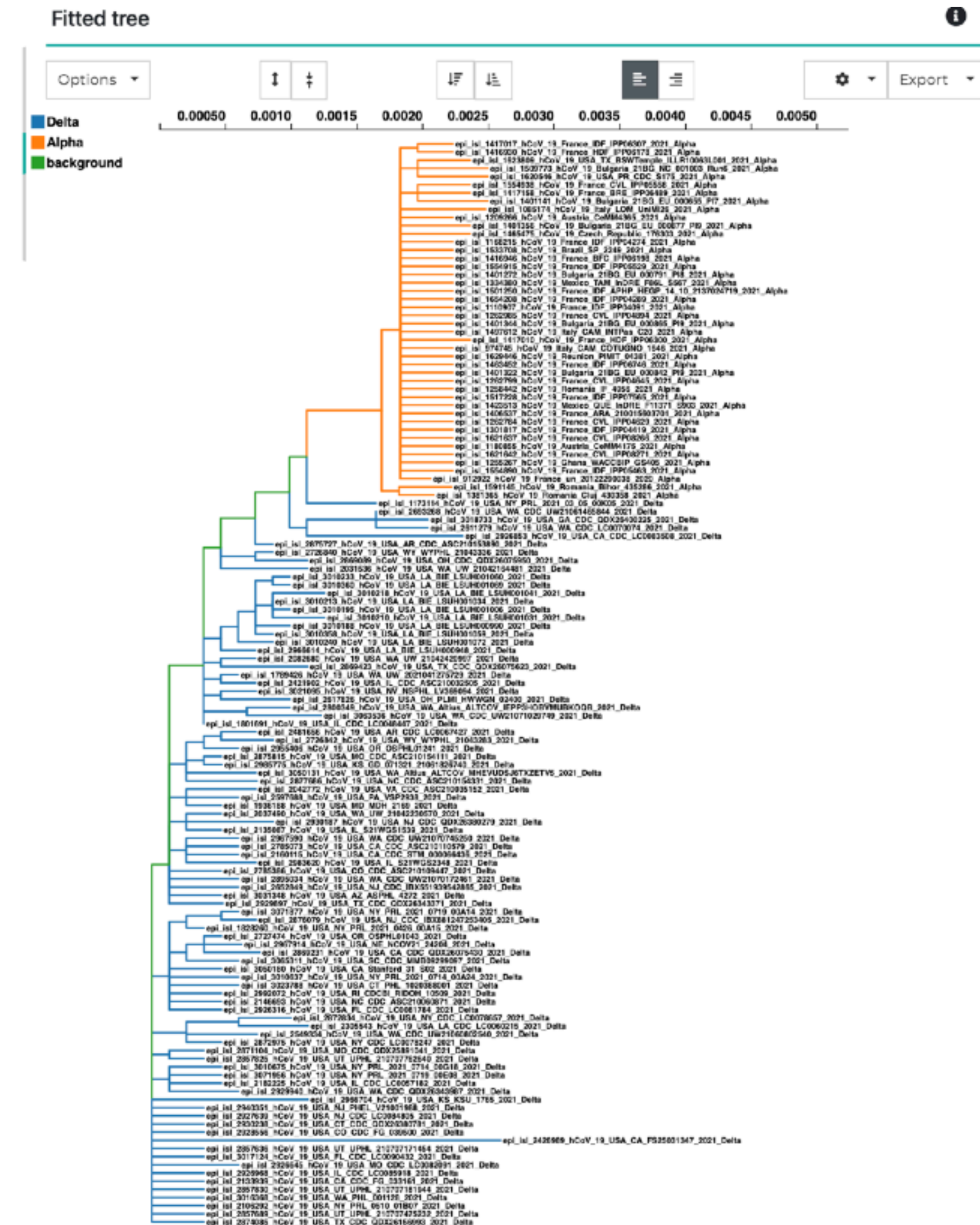


Comparing alpha vs delta clades in SARS-CoV-2

- Are selective pressures on the Delta SARS-CoV-2 clade relaxed or intensified compared to the Alpha clade?
- Partition the tree into corresponding clades.
- See <http://www.hyphy.org/tutorials/CL-prompt-tutorial/#preparing-labeled-phylogenies> for how to label phylogenies



RELAX(ed selection test) results summary

INPUT DATA | AlphaDeltaSpike.fas | 133 sequences | 1273 sites

Export

Test for selection **intensification** ($K = 1.31$) was **not significant** ($p = 0.558$, $LR = 0.34$).

See [here](#) for more information about this method.
Please cite [PMID 123456789](#) if you use this result in a publication, presentation, or other scientific work.

Model fits



Model	log L	#. params	AIC _c	Branch set	ω ₁	ω ₂	ω ₃
General descriptive	-8790.1	367	18315.9	Shared	0.00 (11.36%)	0.86 (88.62%)	1288.13 (0.02%)
RELAX alternative	-8876.3	199	18151.1	Reference	1.00 (97.76%)	1.00 (2.24%)	1450.96 (0.00%)
				Test	1.00 (97.76%)	1.00 (2.24%)	13744.44 (0.00%)
RELAX null	-8876.5	198	18149.4	Reference	1.00 (98.05%)	1.00 (1.95%)	11625.16 (0.00%)
				Test	1.00 (98.05%)	1.00 (1.95%)	11625.16 (0.00%)

```
hyphy relax --alignment data/AlphaDeltaSpike.fas --tree data/AlphaDeltaSpike.nwk --test Delta --reference Alpha --starting-points 5
```