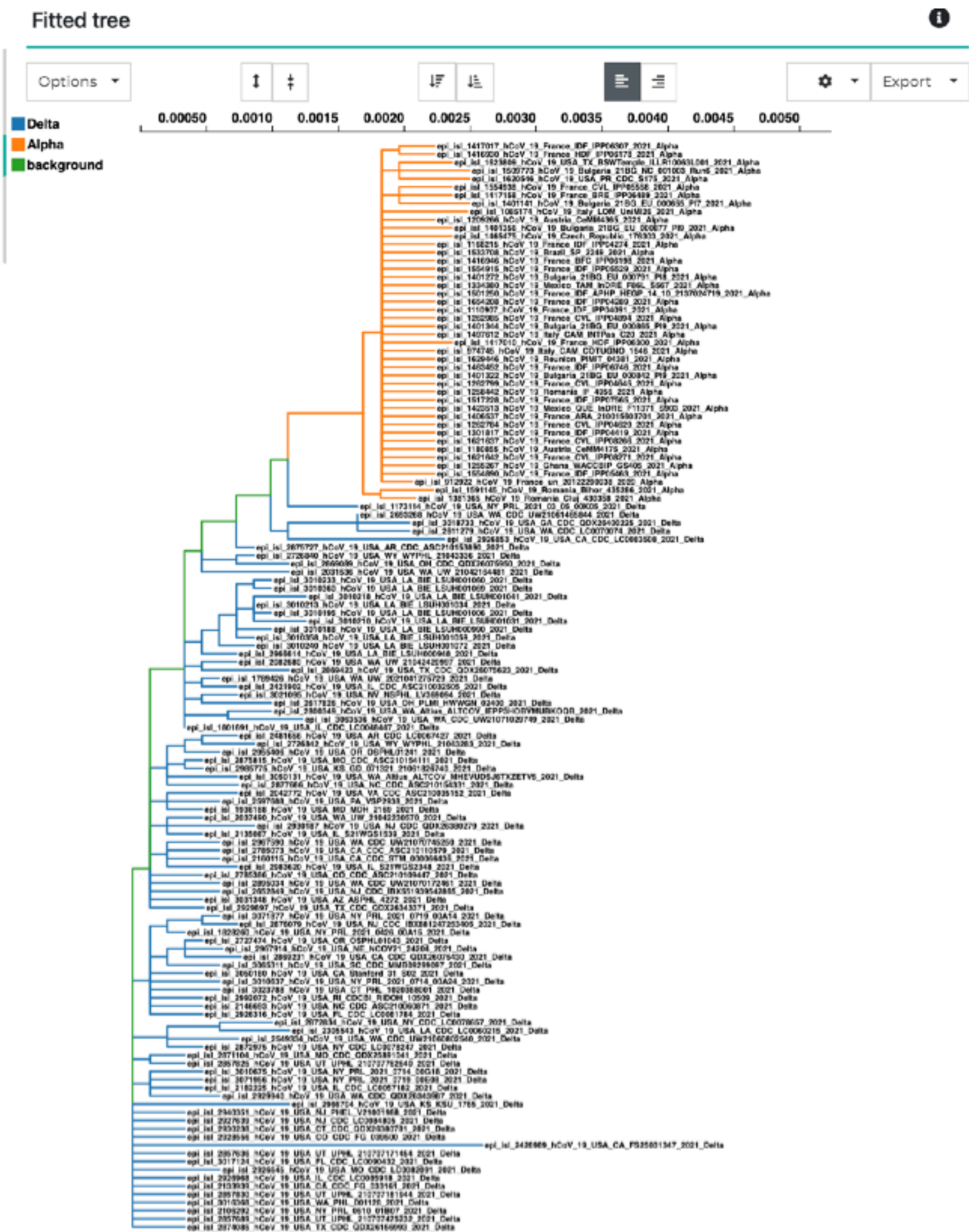


Comparing alpha vs delta clades in SARS-CoV-2

- 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 AlphaDeltaSpike.fas --tree AlphaDeltaSpike.nwk --test Delta --reference Alpha --starting-points 5
```