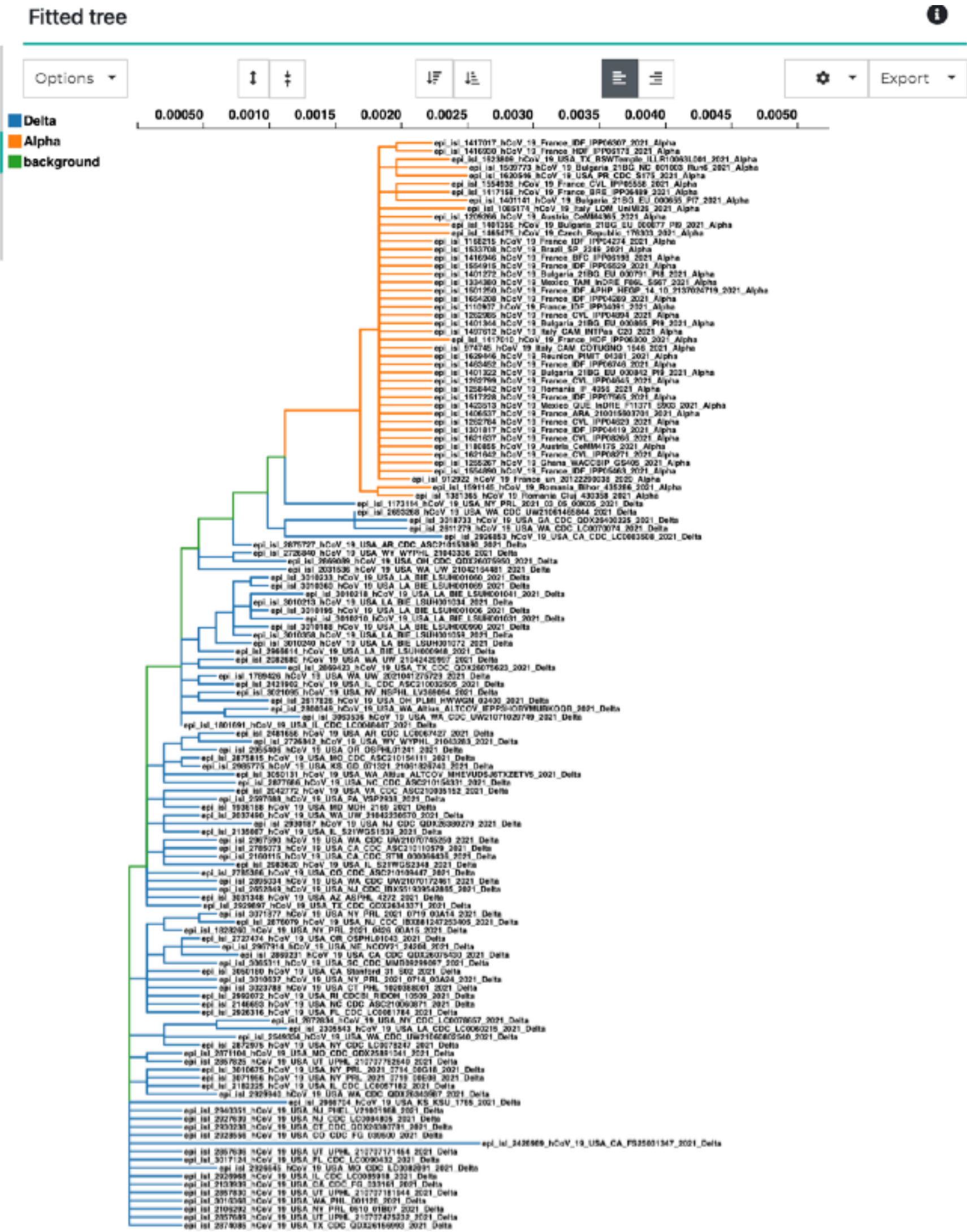# Comparing alpha vs delta clades in SARS-CoV-2

- 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

⬇ 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.

Model fits

ℹ

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
```