IQCF1

KRT8

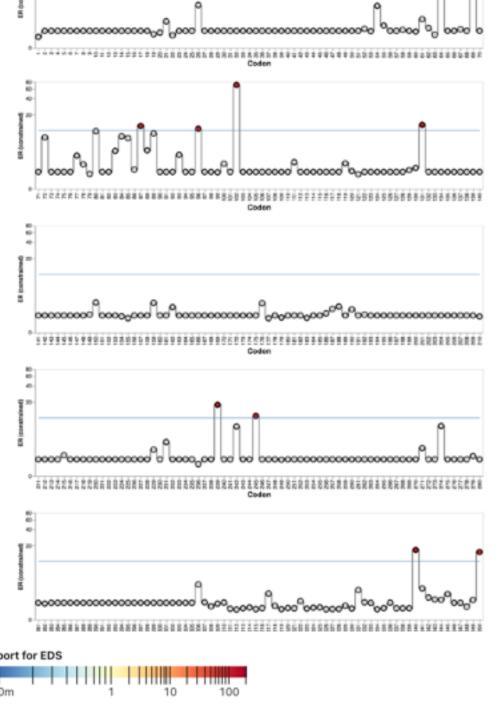
 $\omega_1 = 0.4085 (79.597\%)$ $\omega_2 = 0.4078 (15.784\%)$ ω_3 =11.16 (4.6197%)

Reasonable ω value with broad support

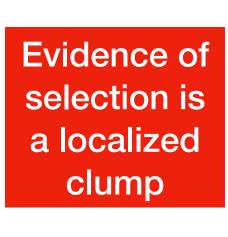
A large ω value with narrow support

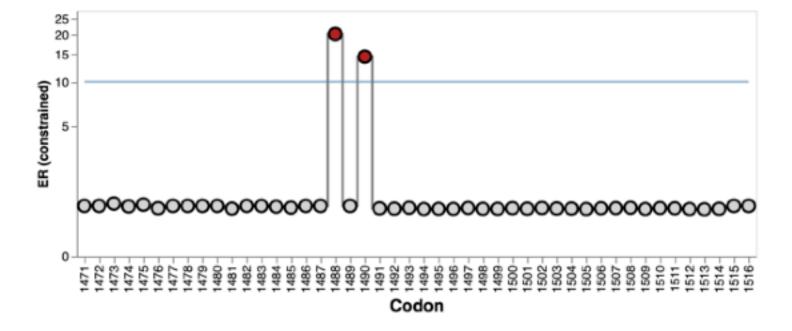
 $\omega_1 = 0.02107 (80.763\%)$ $\omega_2 = 0.6961 (18.533\%)$ $\omega_3 = 136.3 \quad (0.70395\%)$

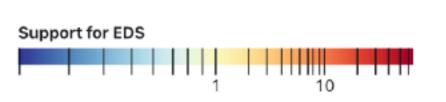
Nicely dispersed sites with evidence of selection



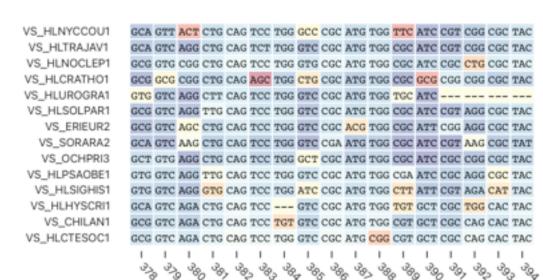
No clear issues with an area of the alignment where there's support for selection

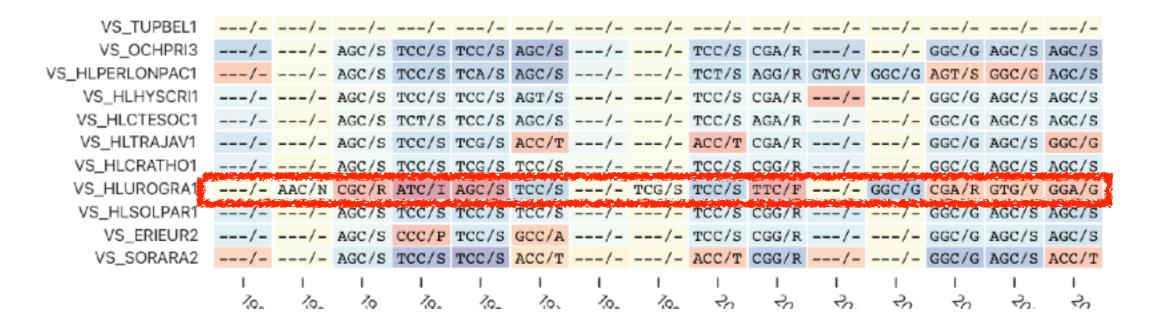






Obvious alignment/ homology issues, here in one sequence





- The simple fix here is to include an explicit error component in the model
- We simply allow a small fraction of the aligment (e.g ≤ 1%) to evolve with abiologically high rates (e.g. dN/dS ≥ 100)
- This is in addition to the standard model which allows negative,

- neutral, and positive selection regimes.
- The primary goal of this analysis is to classify the selective regime on a gene (in the presence of specific types of errors)
- So error detection (and filtering) is a byproduct of an already useful analysis