- Let's examine another example (from Zoonomia), where we downsample the genes down to 16 species (using treemer)
- Two genes that show evidence of episodic positive diversifying selection
 - One likely "real"
 - One likely "not real"
 - How can we tell?

IQCF1

KRT8

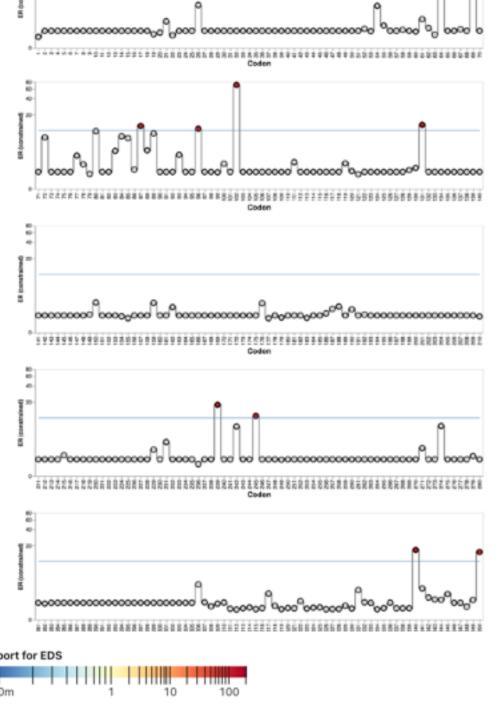
 $\omega_1 = 0.4085 (79.597\%)$ $\omega_2 = 0.4078 (15.784\%)$ ω_3 =11.16 (4.6197%)

Reasonable ω value with broad support

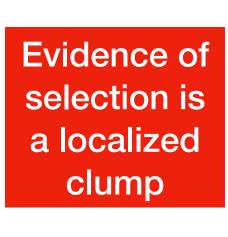
A large ω value with narrow support

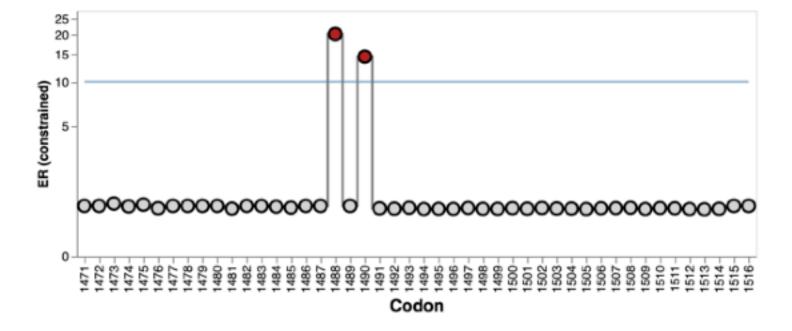
 $\omega_1 = 0.02107 (80.763\%)$ $\omega_2 = 0.6961 (18.533\%)$ $\omega_3 = 136.3 \quad (0.70395\%)$

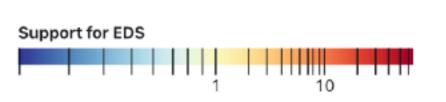
Nicely dispersed sites with evidence of selection



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







Obvious alignment/ homology issues, here in one sequence

