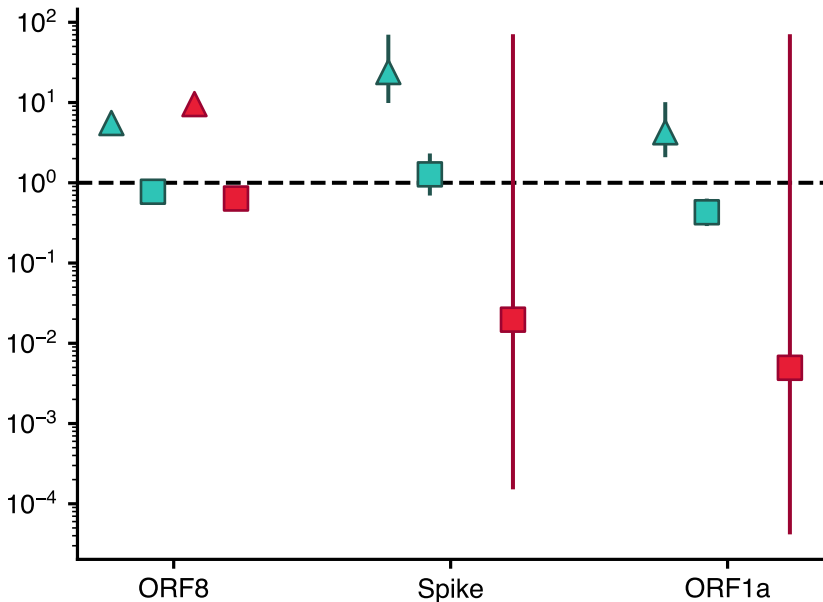


Fold change in cluster growth  
rate relative to synonymous



Missense  
Nonsense

Increased fitness (Obermeyer et al)  
No fitness increase