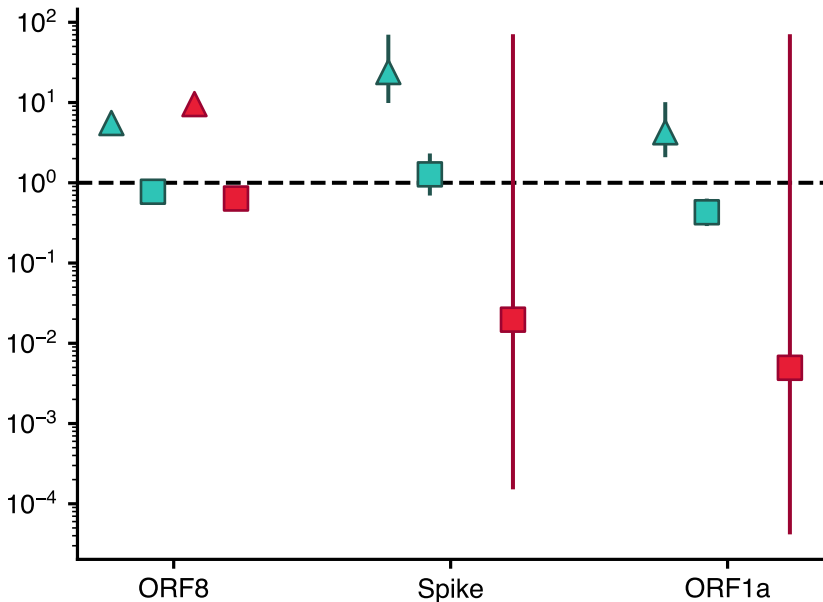


Fold change in cluster growth  
rate relative to synonymous



Missense



Nonsense



Increased fitness (Obermeyer et al)



No fitness increase