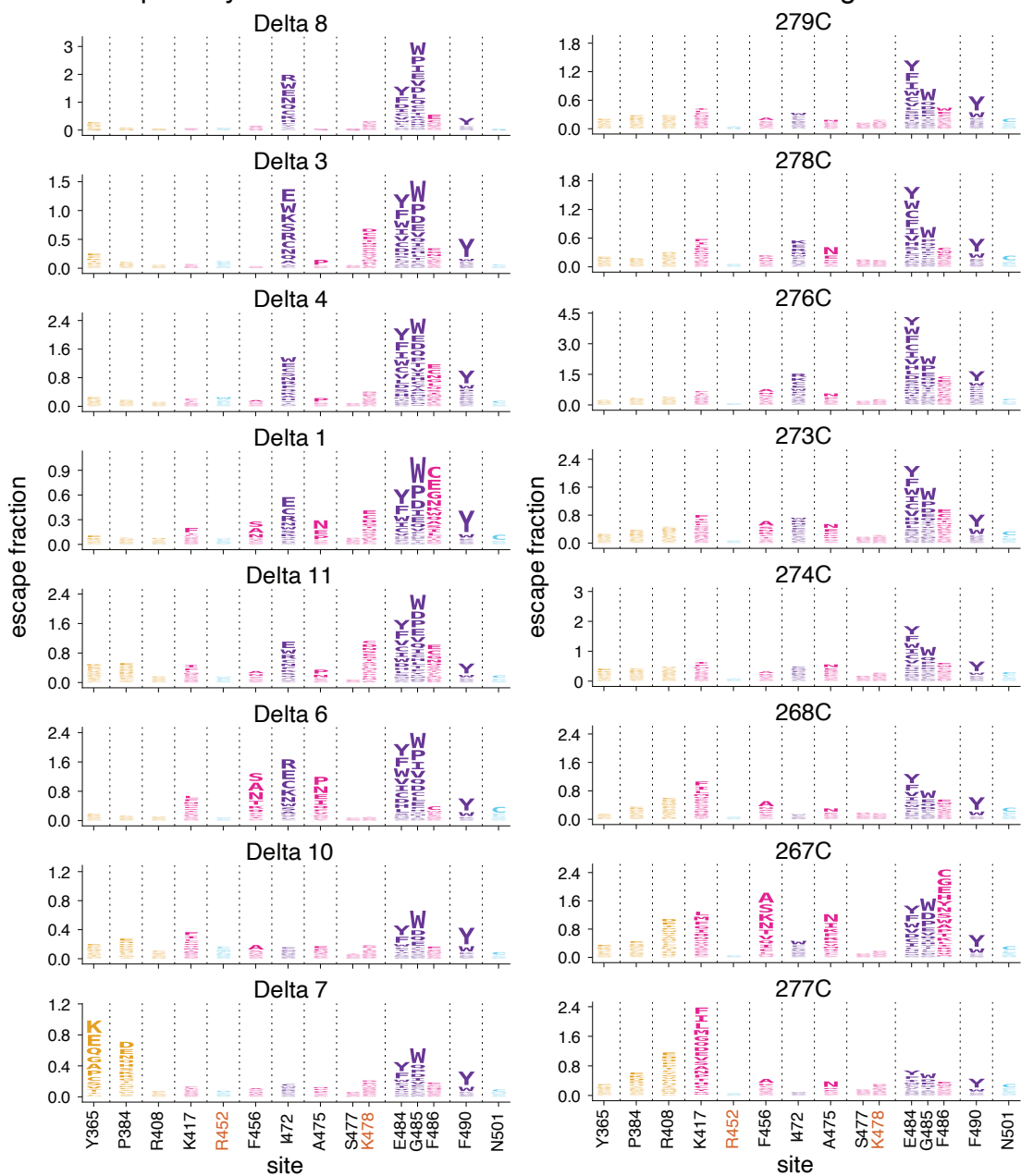
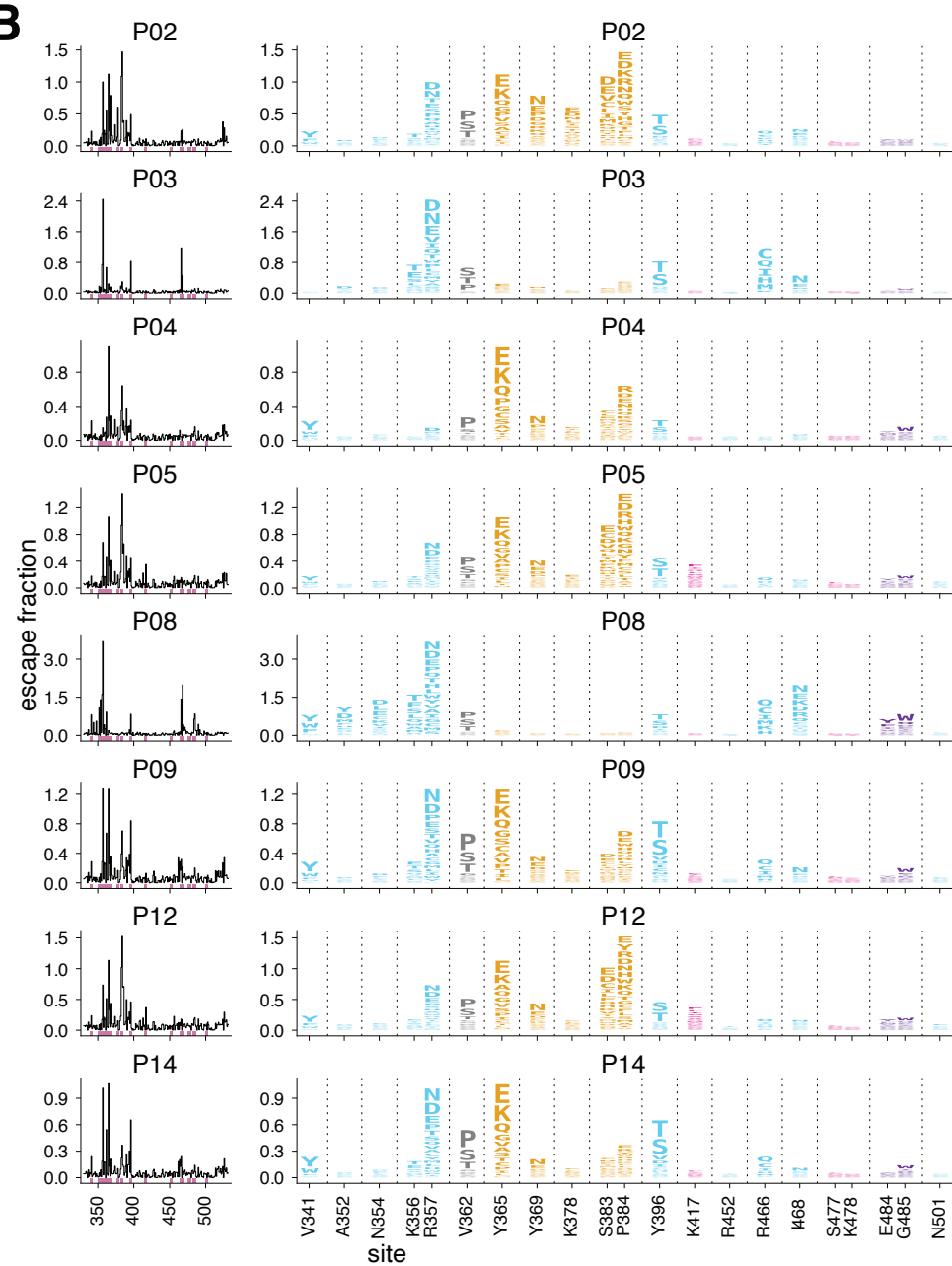
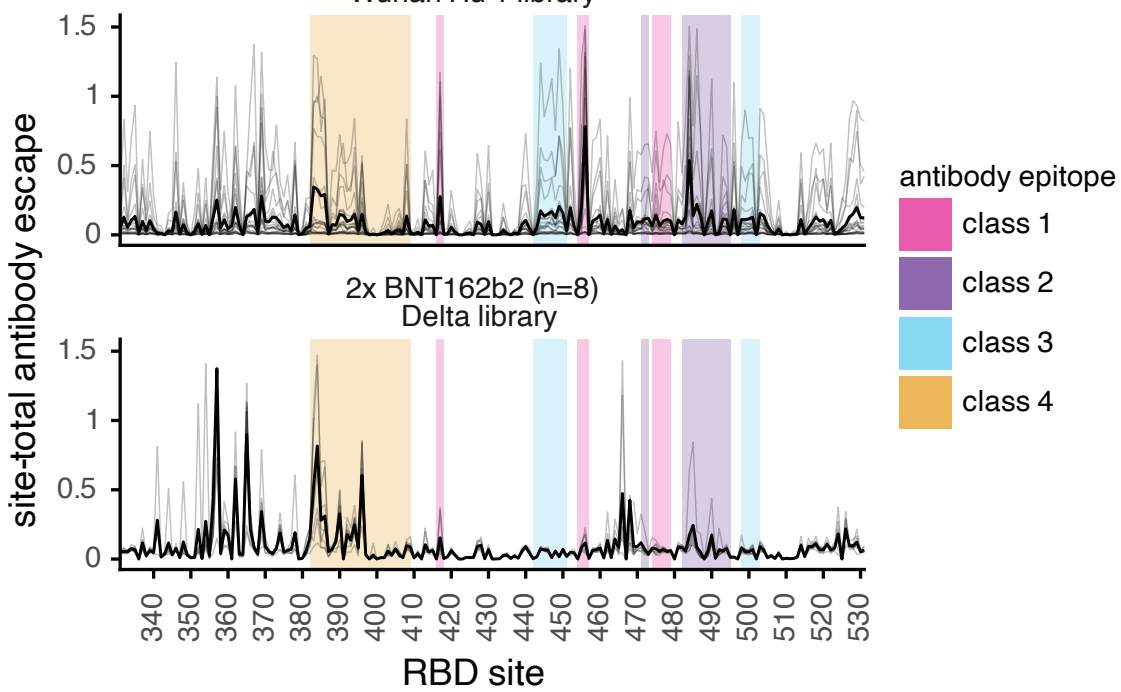


**A**

primary Delta infection

**B**

2x BNT162b2 vaccination

**C**2x mRNA-1273 (n=22)  
Wuhan-Hu-1 library**D**mutations that reduce  
binding to the Wuhan-Hu-1 RBD from  
2x mRNA-1273 sera