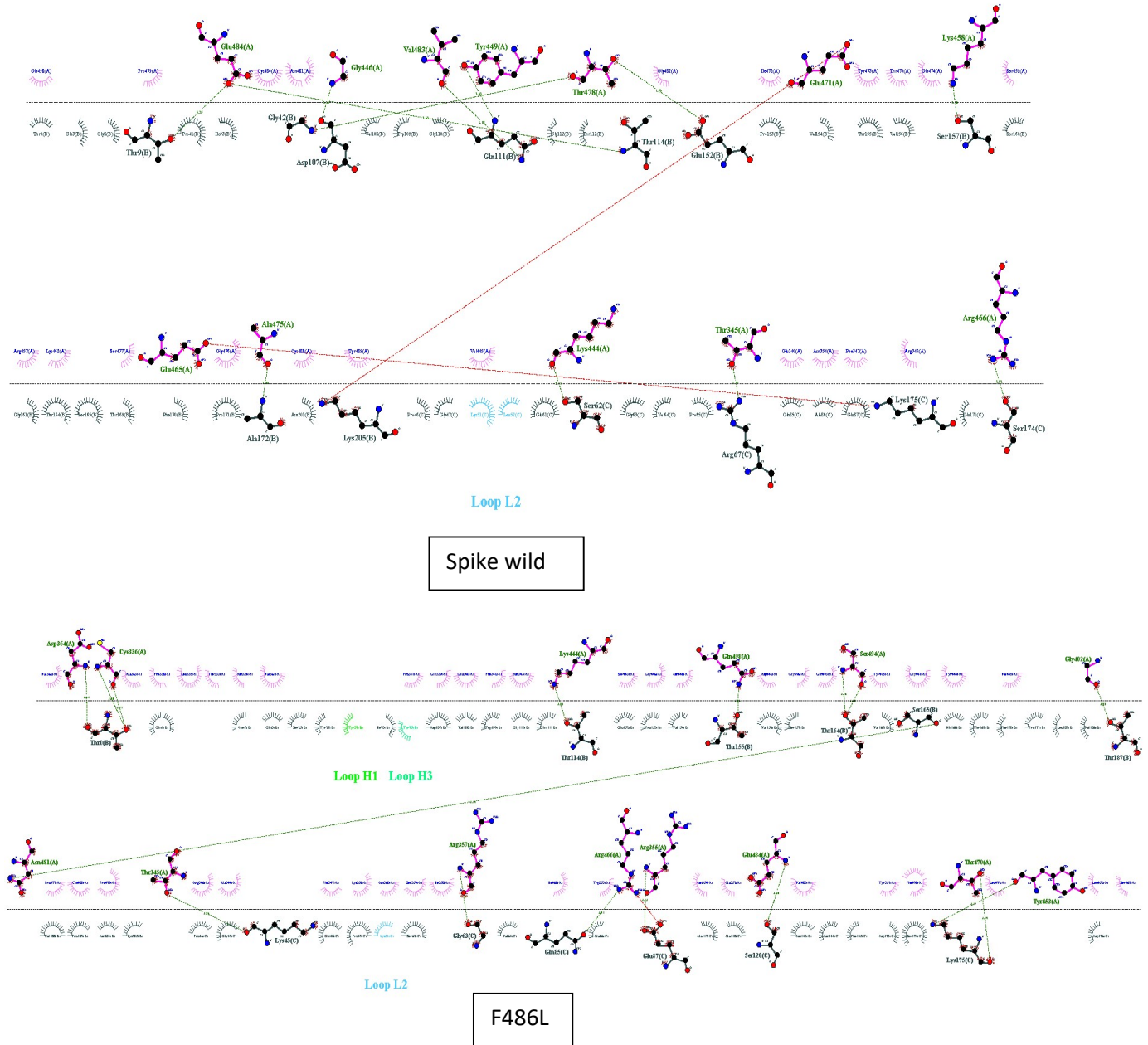
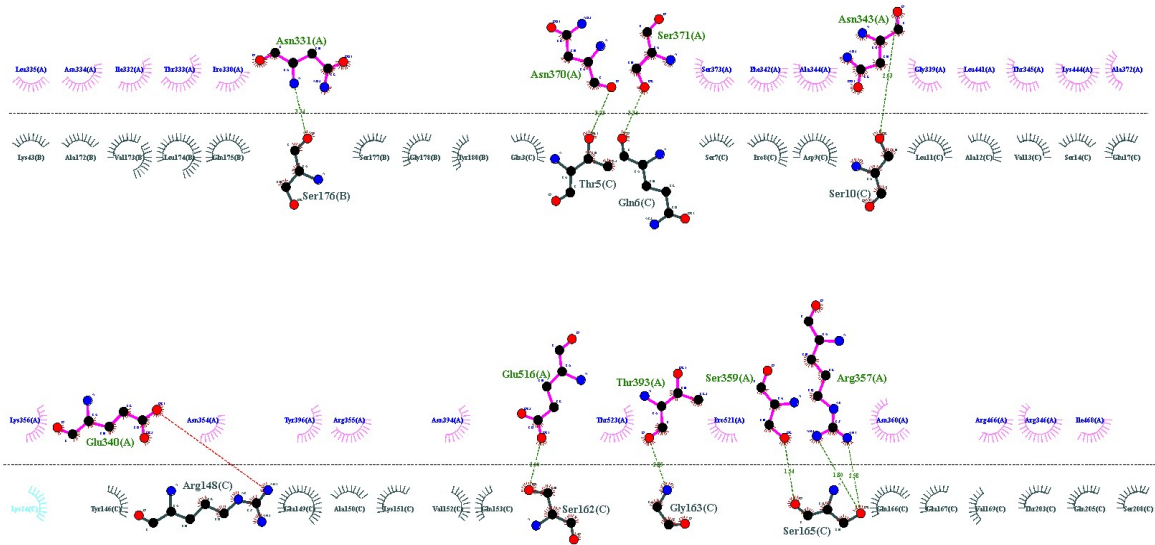


Supplementary File1

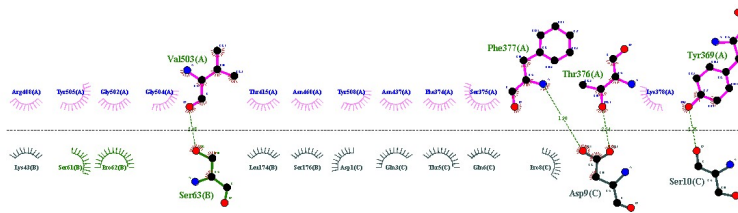
Molecular interactions of antibody CR3022 with 7 different structurally changed RBD variants. Hydrogen bonds are depicted in green dashed lines and hydrophobic contacts are indicated by the red brick.



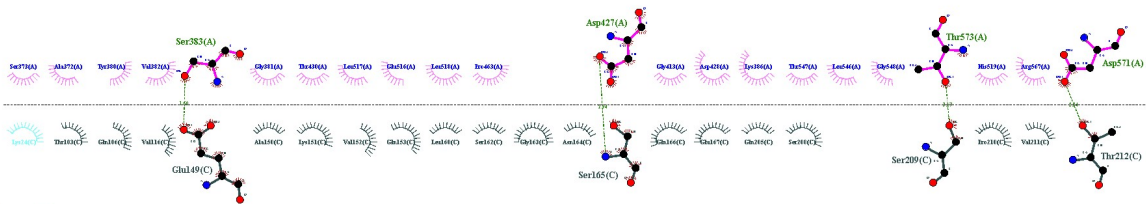


Loop L1

Q493N

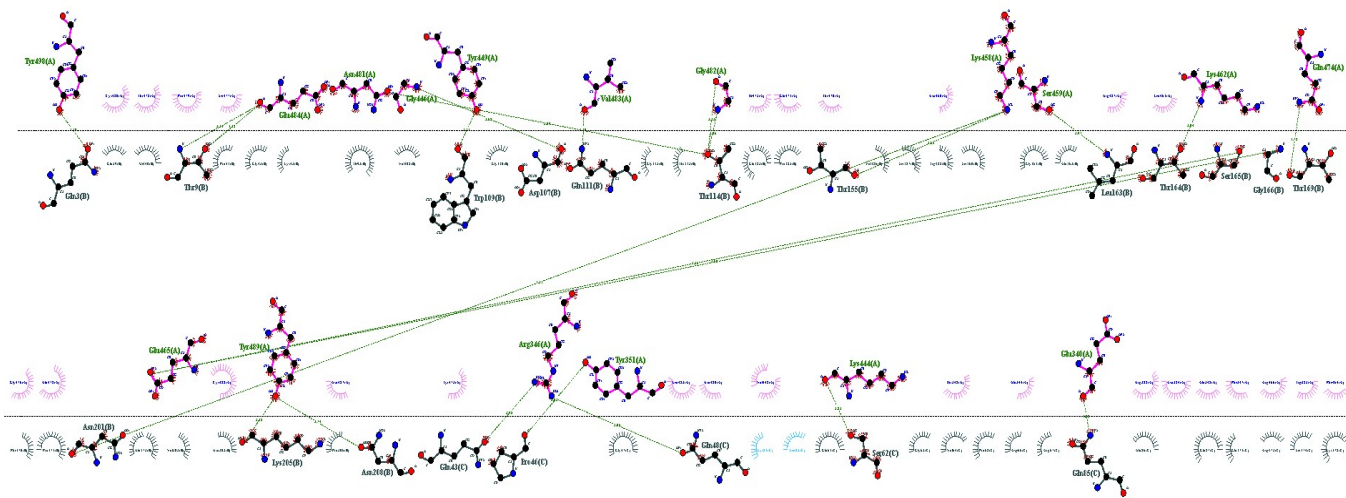


Loop H2



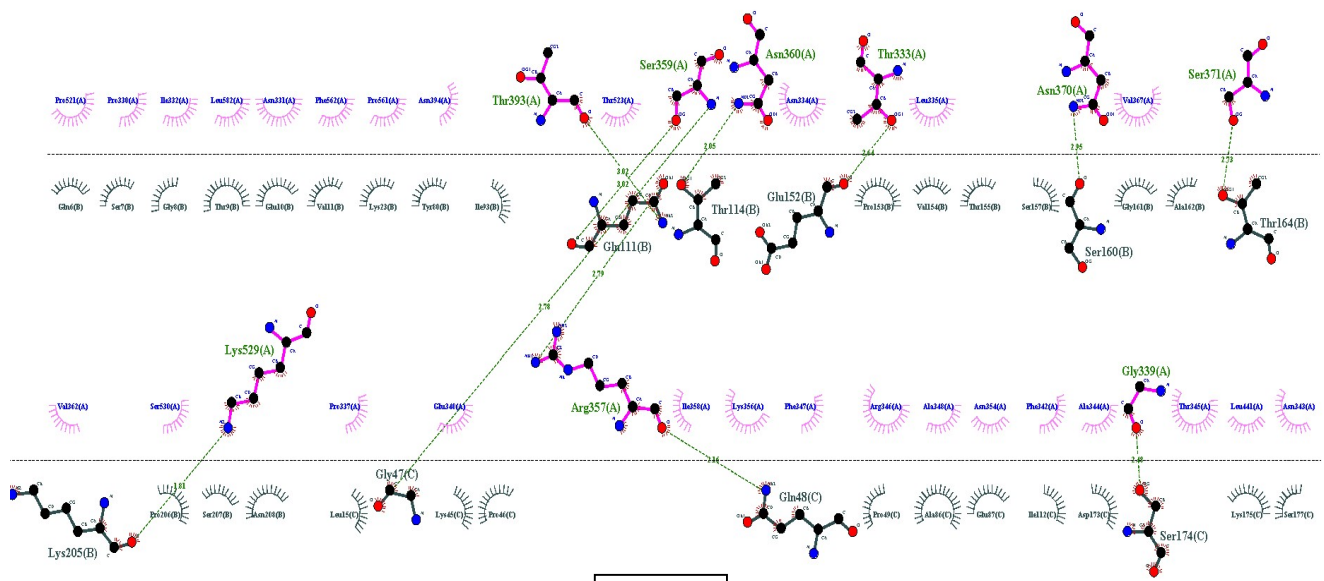
Loop L1

Double mutant

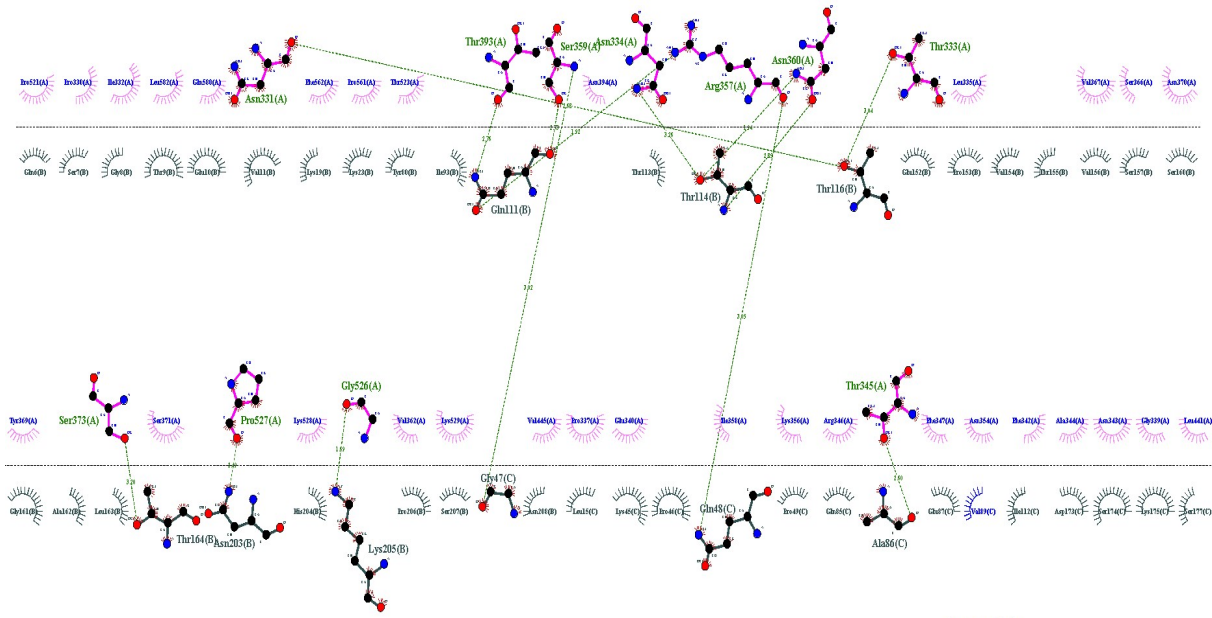


Loop L2

Q498Y



R408I

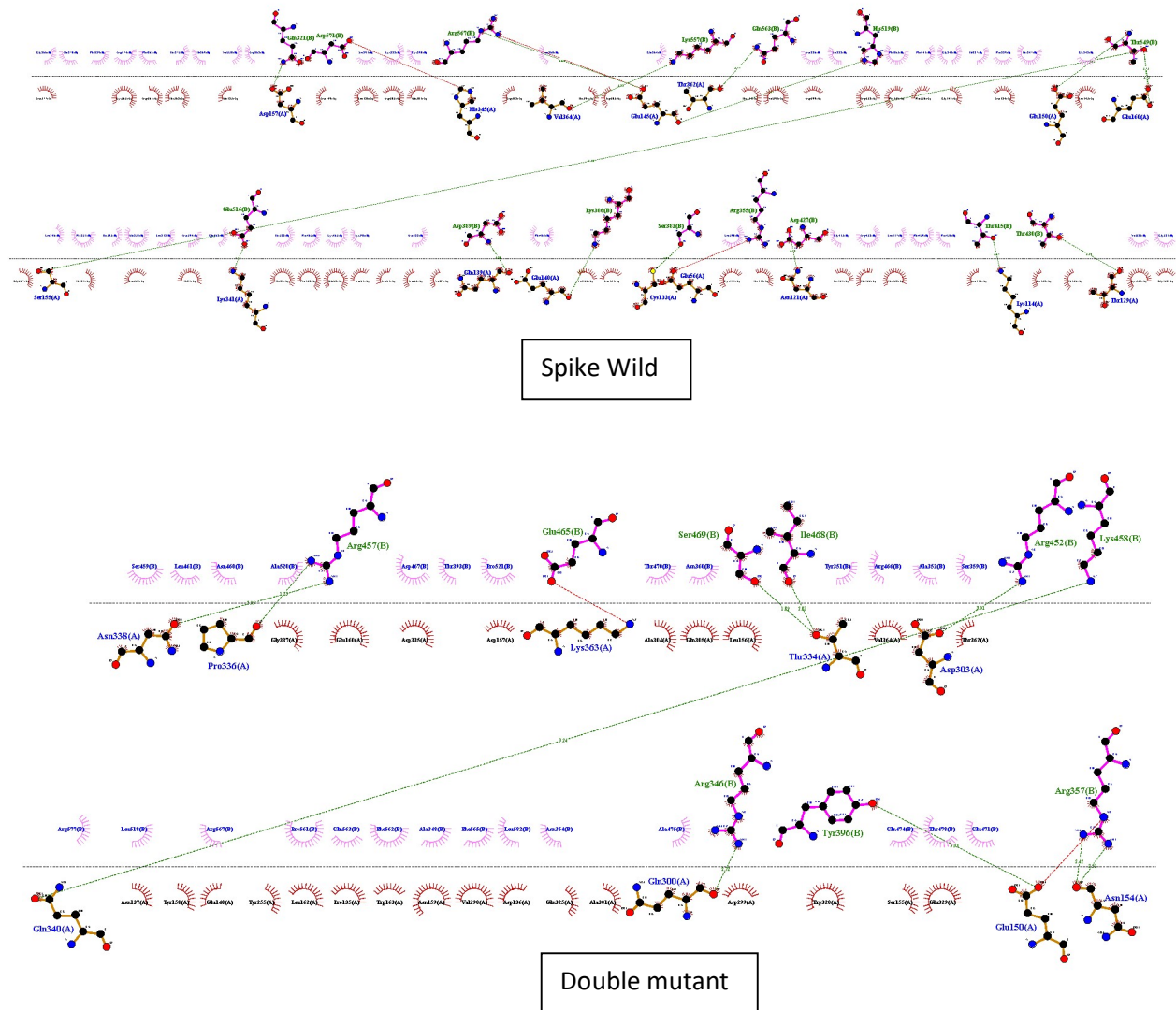


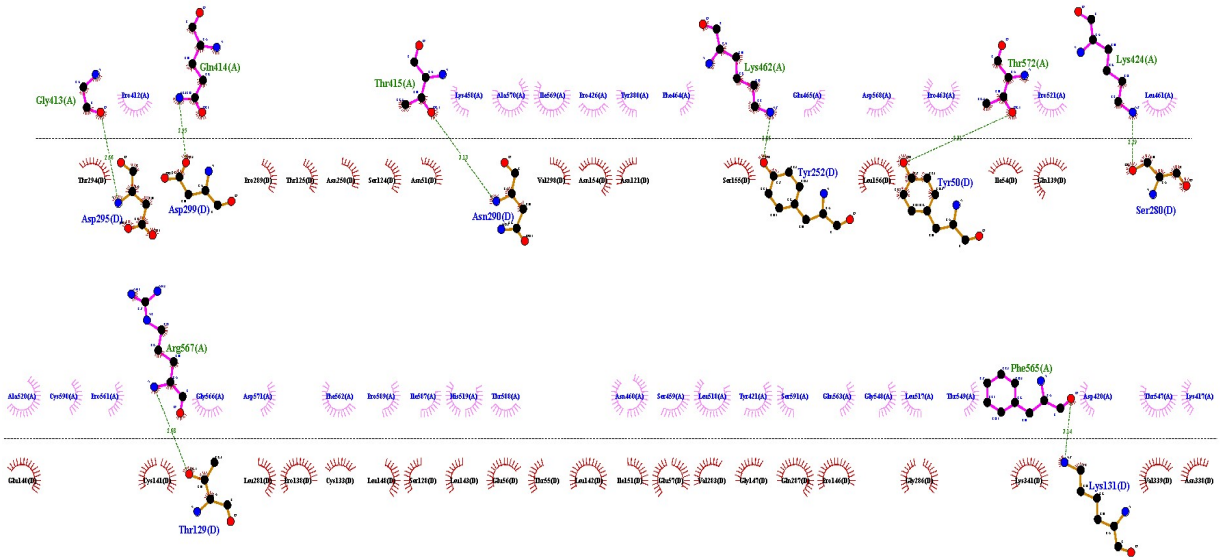
E484K

Loop L3

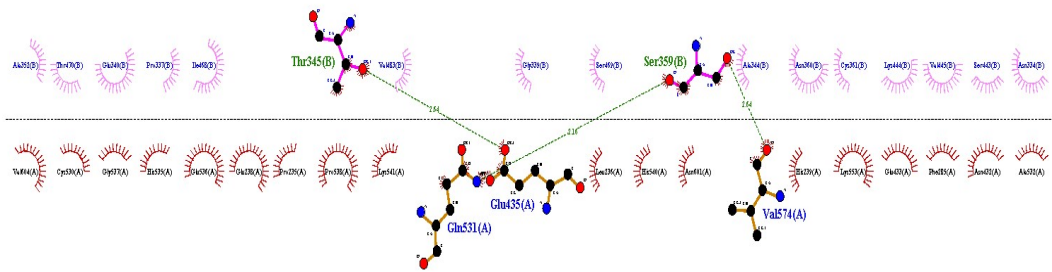
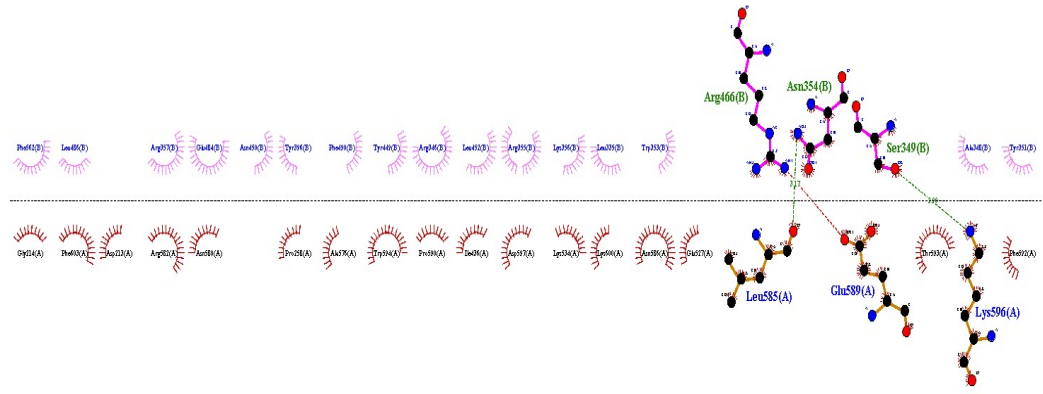
ACE2 – RBD Variants

Molecular interaction of ACE2 (6ACG) with 7 different RBD Variants which have structural changes in RBD region. Hydrogen bonds showed in green dashed lines and hydrophobic contacts indicated by the red brick

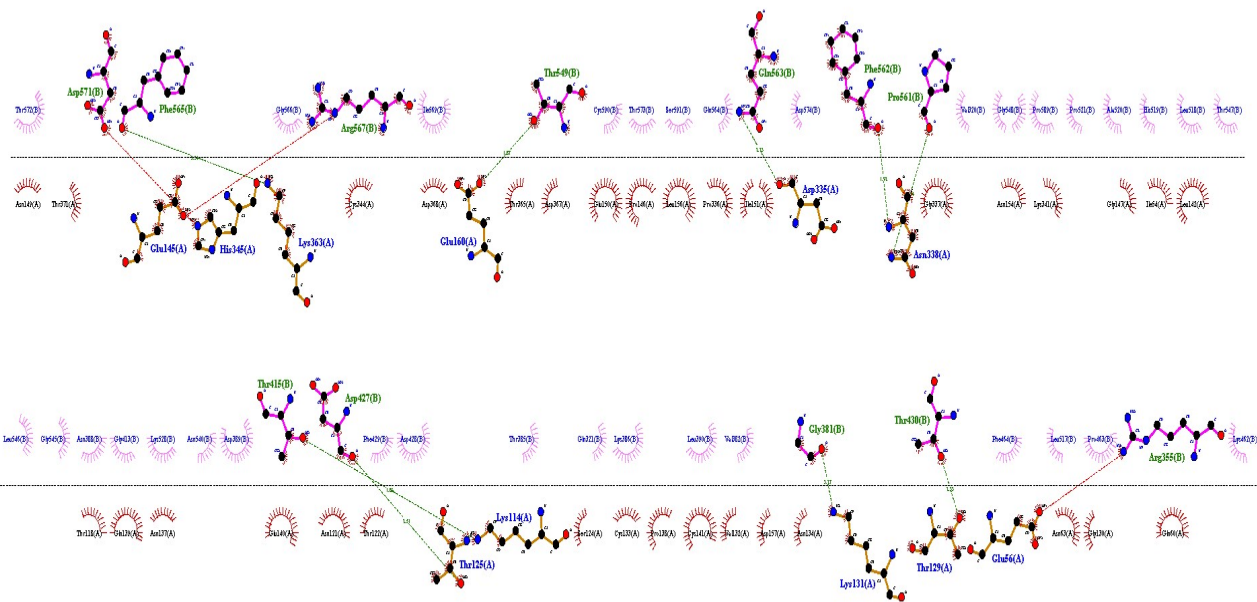
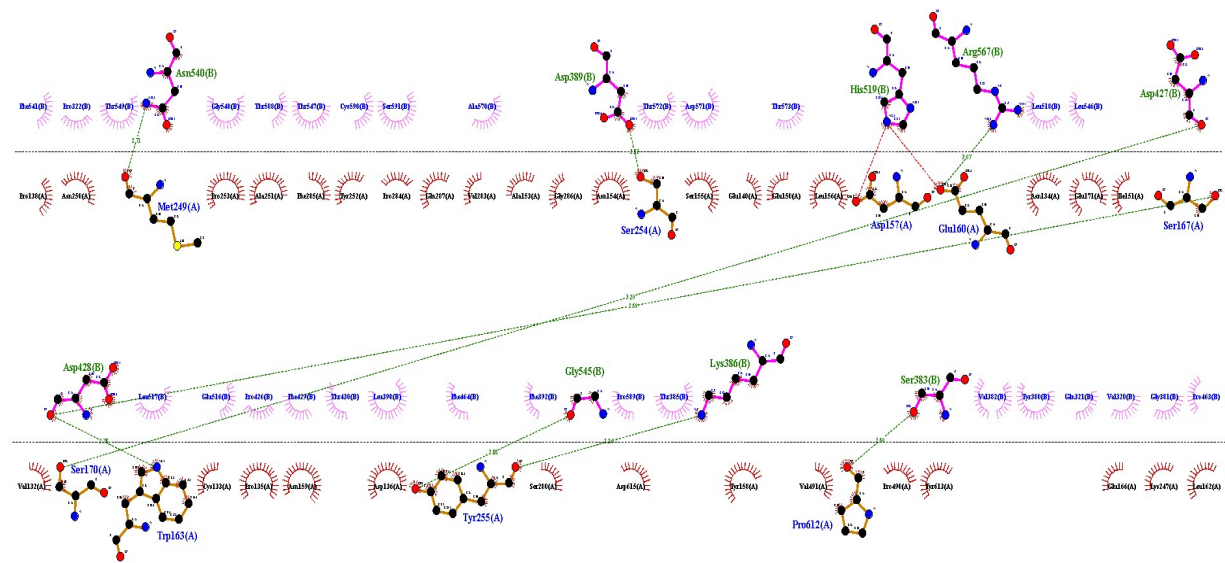


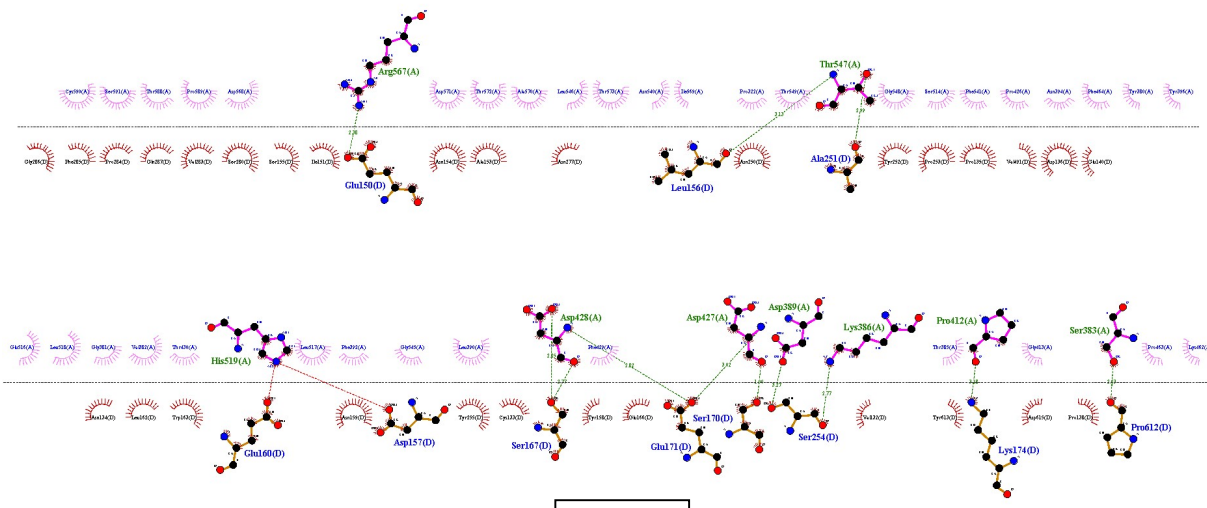


E484k

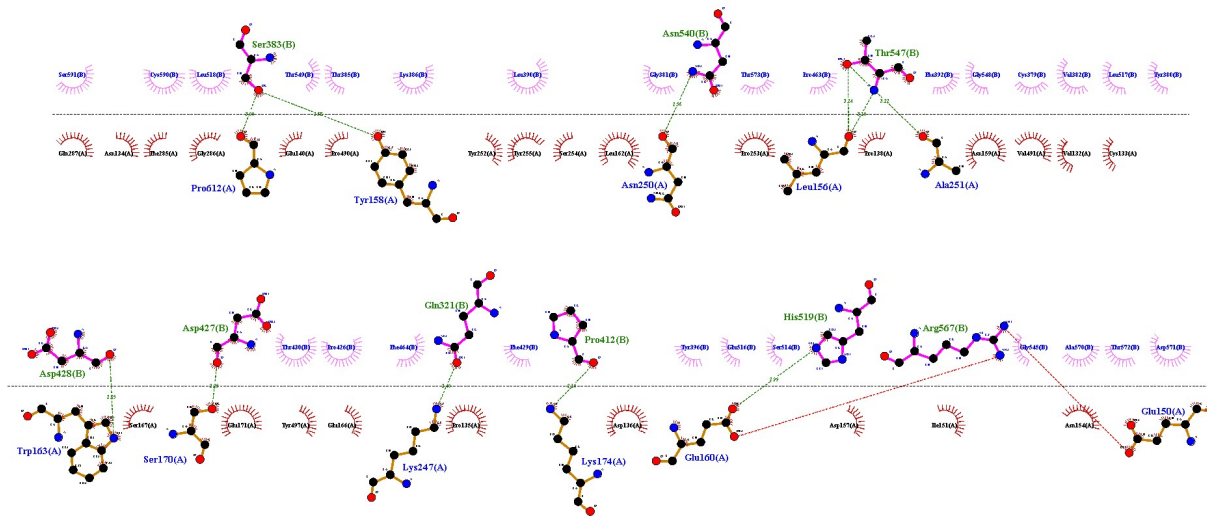


F486L





Q493N



R408I