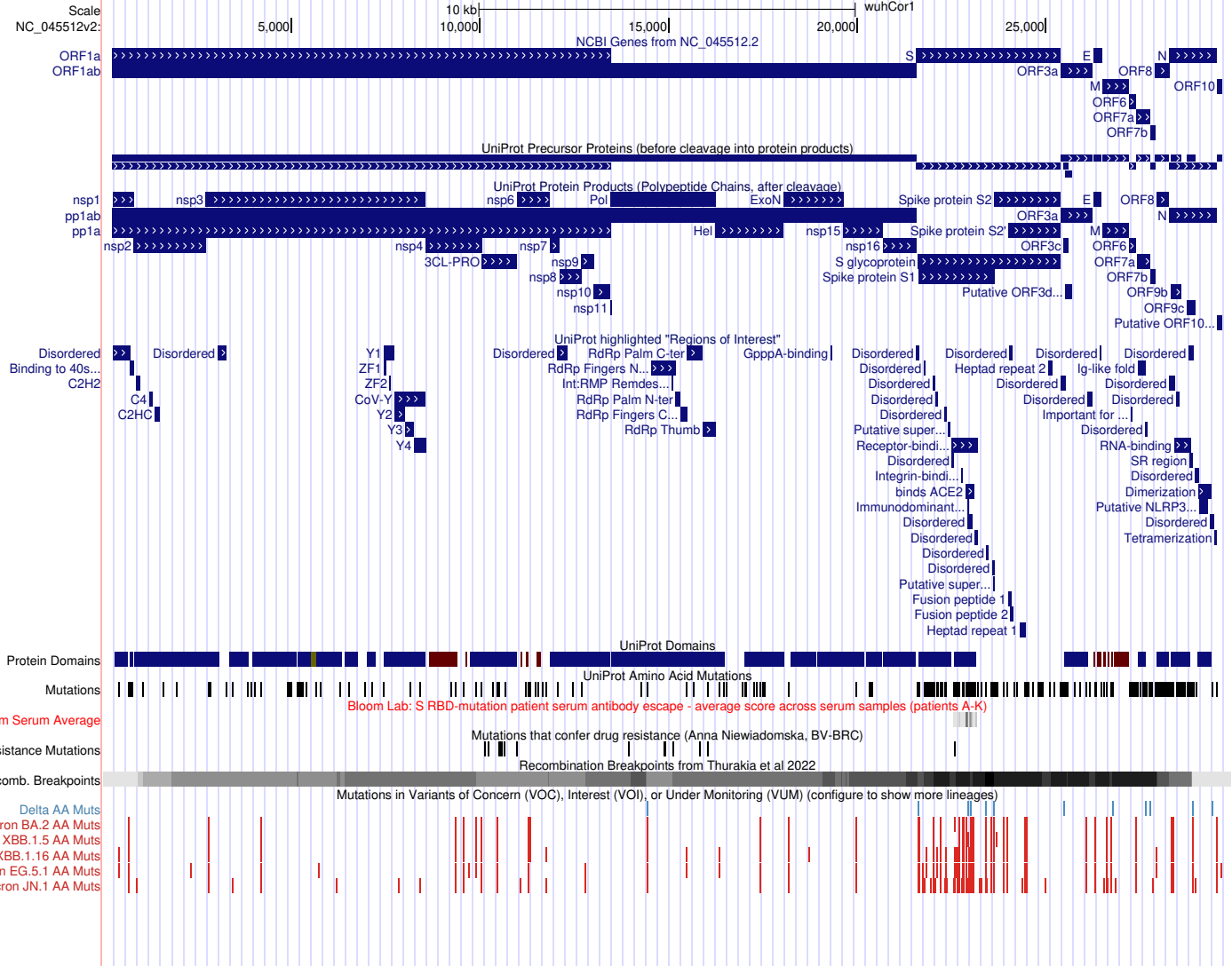
Scale
NC_045512v2:
10 kb
wuhCor1
5,000
10,000
15,000
20,000
25,000
NCBI Genes from NC_045512.2
ORF1a
ORF1ab
S
E
N
ORF3a
ORF8
M
ORF10
ORF6
ORF7a
ORF7b
UniProt Precursor Proteins (before cleavage into protein products)
UniProt Protein Products (Polypeptide Chains, after cleavage)
nsp1
nsp3
nsp6
Pol
ExoN
Spike protein S2
E
ORF8
pp1ab
ORF3a
N
pp1a
Hel
nsp15
Spike protein S2'
M
nsp2
nsp4
nsp7
nsp16
ORF3c
ORF6
3CL-PRO
nsp9
S glycoprotein
ORF7a
nsp8
Spike protein S1
ORF7b
nsp10
Putative ORF3d...
ORF9b
nsp11
ORF9c
Putative ORF10...
UniProt highlighted "Regions of Interest"
Disordered
Disordered
Y1
Disordered
RdRp Palm C-ter
GpppA-binding
Disordered
Disordered
Disordered
Disordered
Binding to 40s...
ZF1
RdRp Fingers N...
Disordered
Heptad repeat 2
Ig-like fold
C2H2
ZF2
Int:RMP Remdes...
Disordered
Disordered
Disordered
C4
CoV-Y
RdRp Palm N-ter
Disordered
Disordered
Disordered
C2HC
Y2
RdRp Fingers C...
Disordered
Important for ...
Y3
RdRp Thumb
Putative super...
Disordered
Y4
Receptor-bindi...
RNA-binding
Disordered
SR region
Integrin-bindi...
Disordered
binds ACE2
Dimerization
Immunodominant...
Putative NLRP3...
Disordered
Disordered
Disordered
Tetramerization
Disordered
Disordered
Putative super...
Fusion peptide 1
Fusion peptide 2
Heptad repeat 1
UniProt Domains
Protein Domains
UniProt Amino Acid Mutations
Mutations
Bloom Serum Average
Bloom Lab: S RBD-mutation patient serum antibody escape - average score across serum samples (patients A-K)
Drug Resistance Mutations
Mutations that confer drug resistance (Anna Niewiadomska, BV-BRC)
Recomb. Breakpoints
Recombination Breakpoints from Thurakia et al 2022
Mutations in Variants of Concern (VOC), Interest (VOI), or Under Monitoring (VUM) (configure to show more lineages)
Delta AA Muts
Omicron BA.2 AA Muts
Omicron XBB.1.5 AA Muts
Omicron XBB.1.16 AA Muts
Omicron EG.5.1 AA Muts
Omicron JN.1 AA Muts