Variants per gene 8810 7500 Unique variant counts 5358 5000 3092 2958 2578 2500 2030 2049 1638 1489 1440 1175 1210 1122 1030 1007 747 595 646 447 383 189 176 0 3C-like envelop nsp3 9dsu nsp7 nsp8 nsp10 RdRp 2'-o-MT Spike ORF7b leader nsp2 nsp4 9dsu nsp11 helicase ORF3a protein membrane ORF6 protein ORF7a protein ORF8 protein nucleocapsid ORF10 protein 3'-5' exoN endoRNAse