

Table 1. Number of mutations associated with the variants of concern

	5' end	Synonymous	Non-synonymous	Nonsense	Frameshift (deletion)	Frameshift (addition)	Noncoding region	3' end	Total
5' UTR	11								11
ORF1ab		304	330						634
S gene		59	105		2				166
ORF3a		19	56			1	1		77
E gene		4	5						9
M gene		19	9						28
ORF6		2	3				1		6
ORF7a		10	15	1	1				27
ORF7b		2	4	1					7
ORF8		7	13	3	1	1	2		27
N gene		32	40				4		76
ORF10 3'UTR								33	33
Total	11	620	580	5	4	2	8	33	1101

ORF = open reading frame; UTR = untranslated region