Detailed annotation of Omicron mutations								
mutation (nuc)	mutation (aa)	BA.1	BA.1.1	BA.2	BA.3*			
T670G	S135R					NSP1		
C2790T	T842I					NSP3	ORF1a	
A2832G	K856R							
G4184A	G1307S							
6513_6515del	SL2083I							
G8393A	A2710T							
C9344T	L3027F					NSP4		
C9534T	T3090I							
C9866T	L3201F							
C10029T	T3255I							
C10449A	P3395H							
C11235T	A3657V							
G11287T	L3674F					NSP6		
11288_11296del	SGF3675-3677del							
T11296G	F3677L							
A11537G	I3758V							
C14408T	P4715L					NSP12		
C17410T	R5716C					NSP13	ORF1b	
A18163G	I5967V					NSP14	OINI ID	
C19955T	T2163I					NSP15		
C21618T	T19I							
21633_21641del	LPPA24S							
C21762T	A67V							

21765_21770del	HV69-70del					
C21846T	T95I			NTD	NTD	
G21987A	G142D				NID	
21987_21995del	VYY143-145del					
22194_22196del	NL211I					
T22200G	V213G					
22205GAGCCAGAAins	214EPEins					
G22578A	G339D					
G22597A	R346K					
C22674T	S371F					
T22673C, C22674T	S371L					
T22679C	S373P					
C22686T	S375F					
A22688G	T376A					
G22775A	D405N				RBD	
A22786T	R408S					
G22813T	K417N					
T22882G	N440K			S gene	KDD	
G22898A	G446S					
G22992A	S477N					
C22995A	T478K					
A23013C	E484A					RBM
A23040G	Q493R					KDIVI
G23048A	G496S					
A23055G	Q498R					

	I							
A23063T	N501Y							
T23075C	Y505H							
C232O2A	T547K						SD1	
A23403G	D614G							
C23525T	H655Y						SD2	
T23599G	N679K						3D2	
C236O4A	P681H							S1/S2
C23854A	N764K							
G23948T	D796Y							
C24130A	N856K							
A24424T	Q954H							
T24469A	N969K							
C24503T	L981F							
C26060T	T223I					ORF3a		
C26270T	Т9І					E gene		
A26530G	D3G							
C26577G	Q19E					M gene		
G26709A	A63T							
G27382C, A27383T, T27384C	D61L					ORF6		
C28311T	P13L							
28362_28370del	ERS31del							
G28881A, G28882A	R2O3K					N gene		
G28883C	G204R							
A29510C	S413R							
* Due to the small number of BA.3 genomes sequenced, there may be inaccuracies in the listed mutations								