

other	
B.1.621	[T95I, Y144S, Y145N, R346K, E484K, N501Y, D614G, P681H, D950N]
B.1.619	[I210T, N440K, E484K, D614G, D936N, S939F, T1027I]
B.1.1.318	[T95I, Y144-, E484K, D614G, P681H, D796H]
B.1.623	[S494P, N501Y, D614G, P681H, K854N, E1111K]
B.1.620	[P26S, H69-, V70-, V126A, Y144-, L242-, A243-, L244-, H245Y, S477N, E484K, D614G, P681H, T1027I, D1118H]
B.1.1.523	[E156-, F157-, R158-, F306L, E484K, S494P, D614G, E780A, D839V, T1027I]
C.36	[S12F, H69-, V70-, W152R, R346S, L452R, D614G, Q677H, A899S]
B.1.214.2	[Q414K, N450K, D614G, T716I]
A.2.5.2	[L141-, G142-, V143-, D215A, L452R, D614G]
B.1.258.17	[H69-, V70-, L189F, N439K, D614G, V772I]
B.1.575	[S494P, D614G, P681H, T716I]
R.1	[W152L, E484K, D614G, G769V]
B.1.1.519	[T478K, D614G, P681H, T732A]
A23.1	[F157L, V367F, Q613H, P681R]
A.27	[L18F, L452R, N501Y, A653V, H655Y, D796Y, G1219V]
C.37=Lambda	[G75V, T76I, R246N, S247-, Y248-, L249-, T250-, P251-, G252-, D253-, L452Q, F490S, D614G, T859N]
B.1.617.1=Kappa	[T95I, G142D, E154K, L452R, E484Q, D614G, P681R, Q1071H]
B.1.526.1	[D80G, Y144-, F157S, L452R, D614G, T859N, D950H]
B.1.526.2	[L5F, T95I, D253G, S477N, D614G, Q957R]
B.1.526=Iota	[L5F, T95I, D253G, E484K, D614G, A701V]
B.1.525=Eta	[Q52R, A67V, H69-, V70-, Y144-, E484K, D614G, Q677H, F888L]
P.2=Zeta	[E484K, D614G, V1176F]
B.1.429/7=Epsilon	[S13I, W152C, L452R, D614G]
Delta-AY.1	[T19R, T95I, G142D, E156-, F157-, R158G, W258L, K417N, L452R, T478K, D614G, P681R, D950N]
Delta-AY.2	[T19R, V70F, G142D, E156-, F157-, R158G, A222V, K417N, L452R, T478K, D614G, P681R, D950N]
Delta+A222V	[T19R, G142D, E156-, F157-, R158G, A222V, L452R, T478K, D614G, P681R, D950N]
B.1.617.2=Delta	[T19R, T95I, G142D, E156-, F157-, R158G, L452R, T478K, D614G, P681R, D950N]
P.1=Gamma	[L18F, T20N, P26S, D138Y, R190S, K417T, E484K, N501Y, D614G, H655Y, T1027I, V1176F]
B.1.351=Beta	[D80A, D215G, L242-, A243-, L244-, K417N, E484K, N501Y, D614G, A701V]
Alpha+T20I	[T20I, H69-, V70-, Y144-, N501Y, A570D, D614G, P681H, T716I, S982A, D1118H]
Alpha+F490S	[L5F, H69-, V70-, Y144-, F490S, N501Y, A570D, D614G, P681H, T716I, S982A, D1118H]
Alpha+E484K	[H69-, V70-, Y144-, E484K, N501Y, A570D, D614G, P681H, T716I, S982A, D1118H]
Alpha+W152R	[H69-, V70-, Y144-, W152R, N501Y, A570D, D614G, P681H, T716I, S982A, D1118H]
B.1.1.7=Alpha	[H69-, V70-, Y144-, Y449S, N501Y, A570D, D614G, P681H, S982A, D1118H, P1162S, V1264L]
B.1.1.7=Alpha	[H69-, V70-, Y144-, N501Y, A570D, D614G, P681R, T716I, S982A, D1118H]
B.1.1.7=Alpha	[H69-, V70-, N501Y, A570D, D614G, P681H, T716I, S982A, D1118H]
B.1.1.7=Alpha	[H69-, V70-, Y144-, N501Y, A570D, D614G, P681H, T716I, S982A, D1118H]
Near-Furin	[D614G, Q675H]
Near-Furin	[D614G, Q677H]
Near-Furin	[D614G, P681H]
GV-clade	[A222V, D614G]
G-clade	[D138Y, D614G]
G-clade	[T20I, D614G]
G-clade	[D614G, T732A]
G-clade	[N439K, D614G]
G-clade	[N501Y, D614G]
G-clade	[S477N, D614G]
G-clade	[D614G]
Ancestral	[]