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                                                                                                                                11111
                                                                                 111111111111122222222222222223444444444444556666667777778888999990011 1
                                                                  1111225667778923444455555891124444444455555411345577899071577780136795589335582711 7
                                                                 5238906279056056823452467890052234567890123864790027840410455791162926498969072711 86
                                                                 LSSLTTPQAHVGTDTVDGVYYWEEFRLRIDALALHRSYLTPGDWRQKNNNLSTEFSNADHQQNPATTGVDKTFADSDQSTQEDV
other                                                            ..........................................................................................
B.1.621=Mu                                                       ..............I....SN.......................K........K..Y.G....H............N.......
B.1.619                                                          ............................T...................K....K....G...............NF...I....
B.1.1.318                                                        ..............I....-................................K....G....H.....H..............
B.1.623                                                          ....................................................PY.G....H......N..........K..
B.1.620                                                          ......S..--....A...-............---Y................N.K....G....H...............I..H.
C.36.3                                                           .F.......--..........R.......................S.....R.......G..H...........S..........
B.1.214.2                                                        ..............................................K...K........G......I..................
A.2.5.2                                                          ..._..............--............_...................R.._....G.._._........_...._.......
B.1.258.17                                                       .........--...............F....................K..........G.........I...............
B.1.575                                                          ....................................................P_.G....H.I............_..._.
R.1                                                              ......................L...............................K....G........V................
B.1.1.519                                                        ....................................................K.....G....H..A.................
C.37=Lambda                                                      ...........VI.........................-------.......Q...S...G............N...........
B.1.617.1=Kappa                                                  ......................___.......................R..Q....G....R....................
B.1.637                                                          .............G.....-....S.........................R.......G............N....H.......
B.1.526=Iota                                                     ..............I...........................G........N......G....._............R......
B.1.526=Iota                                                     ..............I...........................G...............G.....V............_......
B.1.525=Eta                                                      .......RV--........-................................K....G..H..........L...........
P.2=Zeta                                                         ..............._................................_......K.._.G.............._..........F
B.1.429/7=Epsilon                                                ..I..................C............................R.......G........................
Delta-AY.2                                                       ....R.....F............G--....V............_..N...R.K.....G..................N.......
Delta-AY.2                                                       ....R.....F.............--G....V............_..N...R.K.....G..................N.......
Delta+FurinRelated                                               ....R....._............--G................_.._...R.K.....G...*.............N.......
Delta+FurinRelated                                               ....R....._............--G................_.._...R.K.....G..*..............N.......
Delta+FurinRelated                                               ....R....._............--G................_.._...R.K.....G.*...............N.......
Delta+FurinRelated                                               ....R....._............--G................_.._...R.K.....G....H............N.......
Delta+FurinRelated                                               ....R....._............--G................_.._...R.K.....GY................N.......
Delta+FurinRelated                                               ....R....._............G--................_.._...R.K.....G...*.............N.......
Delta+FurinRelated                                               ....R....._............G--................_.._...R.K.....G..*..............N.......
Delta+FurinRelated                                               ....R....._............G--................_.._...R.K.....G.*...............N.......
Delta+FurinRelated                                               ....R....._............G--................_.._...R.K.....G....H............N.......
Delta+FurinRelated                                               ....R....._............G--................_.._...R.K.....GY................N.......
B.1.617.2=Delta                                                  ....R....._............G--................_.._...R.K.....G____R............N.......
B.1.617.2=Delta                                                  ....R....._.............--G................_.._...R.K.....G____R............N.......
Gamma+FurinRelated                                               ........................S.......................K..Y.GY..*....................F
Gamma+FurinRelated                                               ........................S.......................K..Y.GY.*.....................F
Gamma+FurinRelated                                               ........................S.......................K..Y.GY*......................F
Gamma+FurinRelated                                               ........................S.......................K..Y.GY...*...................F
P.1=Gamma                                                        ........................S.......................K..Y.GY____...................F
B.1.351=Beta                                                     .............A...............G.---............N......K..Y.G.....V...................
Alpha+T20I                                                       .....I...--........-._..............................._..YDG....H.I............A...H.
Alpha+F490S                                                      ....._...--........-._.............................._S.YDG....H.I............A...H.
Alpha+E484K                                                      ....._...--........-...............................K..YDG....H.I............A...H.
Alpha+W152R                                                      ....._...--........-.R.............................YDG....H.I............A...H.
B.1.1.7=Alpha                                                    ....._...--........-._.............................__.YDG....H._............A...H.
B.1.1.7=Alpha                                                    ....._...--........-._.............................__.YDG....R.I............A...H.
B.1.1.7=Alpha                                                    ....._...--........._._............................__.YDG....H.I............A...H.
B.1.1.7=Alpha                                                    ....._...--........-._.............................__.YDG....H.I............A...H.
FurinRelated                                                     ____________________________________________________GY_______________________
FurinRelated                                                     ____________________________________________________G_*______________________
FurinRelated                                                     ____________________________________________________G__*_____________________
FurinRelated                                                     .___________________________________________________G___*____________________
GV-clade                                                         ._._________________________V___________________________G___________________________
G-clade                                                          ._______________Y__________________________________________G___________________________
G-clade                                                          .____I_____________________________________________________G___________________________
G-clade                                                          ._____________________________________________________G_____A_________________
G-clade                                                          ._____________________________________________K__________G___________________________
G-clade                                                          ._____________________________________________________*_G___________________________
G-clade                                                          ._____________________________________________N_________G___________________________
G-clade                                                          ._____________________________________________________G___________________________
Ancestral                                                        ___________________________________________________________________________________
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