progenitor as Shandong/LY005-2/2020 (2020-01-24) mutations from proCoV2 (Kumar et al): T3171C, T18060C mutations from Wuhan-Hu-1: T3171C, C8782T, T28144C A11430G C14408T C15480T C17410T C2536T T8886C G1914A C18828T C23271T C24023T G26526T G27225T C28887T C25317T C27213T G28878A T18488C T18996C C24370T T29029C T27618C C28706T T4402C G5062T A1691G C6501T C2942T C3171T G4390T C5717T G11083T C29095T USA/WA1/2020 (2020-01-19) C18060T C865T C13694T C1342T T8782C A28792T C24034T T26729C G28077C C26729T C29095T C1663T G22661T C3768T T8767C C17104T G26167T G29593A C12880T C2662T C29095T Guangdong/HKU-SZ-002/2020 (2020-01-10) C3876T C11620T A13969G A28910T G25947T A11430G C28253T T8782C colapsed clade B C28144T Wuhan-Hu-1 Huanan Seafood Market deleted early Wuhan Guangdong patient infected in Wuhan before Jan 5 other Wuhan other China

outside China