|  |  |
| --- | --- |
| **GISAID ID** | **Strain ID** |
| EPI\_ISL\_413869 | Guangdong/FS-S42-P0046/2020 |
| EPI\_ISL\_417064 | HongKong/VB20017970/2020 |
| EPI\_ISL\_425727 | Scotland/CVR195/2020 |
| EPI\_ISL\_421613 | USA/NY-PV09061/2020 |
| EPI\_ISL\_422525 | USA/NY-PV09158/2020 |
| EPI\_ISL\_421634 | USA/NY-PV09102/2020 |
| EPI\_ISL\_421428 | USA/NY-PV08492/2020 |
| EPI\_ISL\_422535 | USA/NY-PV09176/2020 |
| EPI\_ISL\_422556 | USA/NY-PV09301/2020 |
| EPI\_ISL\_422562 | USA/NY-PV09309/2020 |
| EPI\_ISL\_420104 | Singapore/27/2020 |
| EPI\_ISL\_417534 | Luxembourg/LNS0158952/2020 |
| EPI\_ISL\_417529 | Luxembourg/LNS5731562/2020 |
| EPI\_ISL\_421762 | Luxembourg/LNS9510711/2020 |
| EPI\_ISL\_420608 | France/ARA12499/2020 |
| EPI\_ISL\_420610 | France/ARA12558/2020 |
| EPI\_ISL\_419187 | France/ARA12269/2020 |
| EPI\_ISL\_422592 | Netherlands/NA\_283/2020 |
| EPI\_ISL\_422758 | Netherlands/NA\_223/2020 |
| EPI\_ISL\_422910 | Netherlands/ZuidHolland\_38/2020 |
| EPI\_ISL\_422774 | Netherlands/NA\_240/2020 |
| EPI\_ISL\_422889 | Netherlands/NoordBrabant\_95/2020 |
| EPI\_ISL\_422818 | Netherlands/NA\_57/2020 |
| EPI\_ISL\_423039 | Thailand/Bangkok-CONI-0017/2020 |
| EPI\_ISL\_418202 | USA/NY-NYUMC17/2020 |
| EPI\_ISL\_419762 | Australia/VIC48/2020 |
| EPI\_ISL\_419763 | Australia/VIC43/2020 |
| EPI\_ISL\_419774 | Australia/VIC62/2020 |
| EPI\_ISL\_419737 | Australia/VIC18/2020 |
| EPI\_ISL\_419874 | Australia/VIC177/2020 |
| EPI\_ISL\_419890 | Australia/VIC194/2020 |
| EPI\_ISL\_419736 | Australia/VIC17/2020 |
| EPI\_ISL\_419847 | Australia/VIC150/2020 |
| EPI\_ISL\_419956 | Australia/VIC263/2020 |
| EPI\_ISL\_419974 | Australia/VIC283/2020 |
| EPI\_ISL\_418269 | Vietnam/19-01S/2020 |
| EPI\_ISL\_425186 | Spain/Valencia62/2020 |
| EPI\_ISL\_420855 | Australia/VIC-CBA1/2020 |
| EPI\_ISL\_424346 | USA/AK-PHL037/2020 |
| EPI\_ISL\_404227 | Zhejiang/WZ-01/2020 |
| EPI\_ISL\_406798 | Wuhan/WH01/2019 |
| EPI\_ISL\_417143 | USA/WA-S90/2020 |
| EPI\_ISL\_417144 | USA/WA-S91/2020 |
| EPI\_ISL\_417137 | USA/WA-S84/2020 |
| EPI\_ISL\_417104 | USA/WA-S51/2020 |
| EPI\_ISL\_417087 | USA/WA-S34/2020 |
| EPI\_ISL\_425464 | England/NOTT-10DECC/2020 |
| EPI\_ISL\_413558 | USA/CA-CDPH-UC2/2020 |
| EPI\_ISL\_413928 | USA/CA-CDPH-UC9/2020 |
| EPI\_ISL\_420077 | Senegal/618/2020 |
| EPI\_ISL\_421548 | USA/WY-WYPHL011/2020 |
| EPI\_ISL\_421200 | Belgium/ULG-10026/2020 |
| EPI\_ISL\_421188 | Belgium/ULG-10009/2020 |
| EPI\_ISL\_417030 | Australia/NSW04/2020 |
| EPI\_ISL\_418349 | Canada/ON\_PHL3650/2020 |
| EPI\_ISL\_418347 | Canada/ON\_PHL3741/2020 |
| EPI\_ISL\_418377 | Canada/ON\_PHL1898/2020 |
| EPI\_ISL\_413014 | Canada/ON-PHL2445/2020 |
| EPI\_ISL\_424355 | Beijing/Wuhan\_IME-BJ01/2020 |
| EPI\_ISL\_417223 | England/20104004402/2020 |
| EPI\_ISL\_415134 | England/20100004806/2020 |
| EPI\_ISL\_414008 | England/200960041/2020 |
| EPI\_ISL\_424009 | England/20129020004/2020 |
| EPI\_ISL\_422000 | England/20148003904/2020 |
| EPI\_ISL\_423585 | England/20148002104/2020 |
| EPI\_ISL\_424131 | England/20129168902/2020 |
| EPI\_ISL\_424382 | Iceland/358/2020 |
| EPI\_ISL\_424521 | Iceland/499/2020 |
| EPI\_ISL\_424513 | Iceland/491/2020 |
| EPI\_ISL\_417819 | Iceland/192/2020 |
| EPI\_ISL\_424449 | Iceland/425/2020 |
| EPI\_ISL\_424576 | Iceland/556/2020 |
| EPI\_ISL\_424425 | Iceland/401/2020 |
| EPI\_ISL\_424615 | Iceland/595/2020 |
| EPI\_ISL\_417845 | Iceland/4/2020 |
| EPI\_ISL\_417728 | Iceland/70/2020 |
| EPI\_ISL\_417706 | Iceland/199/2020 |
| EPI\_ISL\_417807 | Iceland/16/2020 |
| EPI\_ISL\_421466 | Portugal/PT0063/2020 |
| EPI\_ISL\_421493 | Portugal/PT0090/2020 |
| EPI\_ISL\_421446 | Portugal/PT0043/2020 |
| EPI\_ISL\_418825 | Canada/BC\_4118226/2020 |
| EPI\_ISL\_418817 | Canada/BC\_0554880/2020 |
| EPI\_ISL\_418850 | Canada/BC\_8606204/2020 |
| EPI\_ISL\_420889 | Japan/Hu\_DP\_Kng\_19-031/2020 |
| EPI\_ISL\_412968 | Japan/Hu\_DP\_Kng\_19-020/2020 |
| EPI\_ISL\_414939 | Shandong/LY006/2020 |
| EPI\_ISL\_414937 | Shandong/LY004/2020 |
| EPI\_ISL\_420314 | Belgium/NL-030447/2020 |
| EPI\_ISL\_420424 | Belgium/CCM-0324167/2020 |
| EPI\_ISL\_420134 | Norway/1495/2020 |
| EPI\_ISL\_417177 | HongKong/HKPU2\_1801/2020 |
| EPI\_ISL\_420455 | HongKong/HKPU102\_2802/2020 |
| EPI\_ISL\_419227 | HongKong/HKPU57-0702/2020 |
| EPI\_ISL\_419225 | HongKong/HKPU53-0802/2020 |
| EPI\_ISL\_419216 | HongKong/HKPU41-0802/2020 |
| EPI\_ISL\_419241 | HongKong/HKPU65-1202/2020 |
| EPI\_ISL\_419248 | HongKong/HKPU84-2502/2020 |
| EPI\_ISL\_426181 | Korea/KCDC2011/2020 |
| EPI\_ISL\_426045 | USA/NY-Wadsworth-11344-01/2020 |
| EPI\_ISL\_413521 | Beijing/235/2020 |
| EPI\_ISL\_421246 | Nanchang/JXN3T4/2020 |
| EPI\_ISL\_421249 | Xinyu/JX122/2020 |
| EPI\_ISL\_421247 | Nanchang/JX149/2020 |
| EPI\_ISL\_421241 | Nanchang/JX177/2020 |
| EPI\_ISL\_421251 | Shangrao/JX1176/2020 |
| EPI\_ISL\_421223 | Hangzhou/HZCDC0167/2020 |
| EPI\_ISL\_421227 | Hangzhou/HZCDC0091L/2020 |
| EPI\_ISL\_421225 | Hangzhou/HZCDC0135/2020 |
| EPI\_ISL\_420567 | Italy/TE5780/2020 |
| EPI\_ISL\_413850 | Guangdong/GDFS2020054-P0005/2020 |
| EPI\_ISL\_417212 | NewZealand/CoV002/2020 |
| EPI\_ISL\_422433 | Singapore/40/2020 |
| EPI\_ISL\_419001 | Singapore/19/2020 |
| EPI\_ISL\_419700 | USA/NY-NYUMC39/2020 |
| EPI\_ISL\_420577 | USA/NY-NYUMC62/2020 |
| EPI\_ISL\_424953 | USA/NY-NYUMC146/2020 |
| EPI\_ISL\_424965 | USA/NY-NYUMC158/2020 |
| EPI\_ISL\_421726 | USA/NY-NYUMC114/2020 |
| EPI\_ISL\_424929 | USA/NY-NYUMC122/2020 |
| EPI\_ISL\_421707 | USA/NY-NYUMC95/2020 |
| EPI\_ISL\_421586 | USA/NY-NYUMC85/2020 |
| EPI\_ISL\_425993 | Scotland/EDB390/2020 |
| EPI\_ISL\_425894 | Scotland/EDB106/2020 |
| EPI\_ISL\_425963 | Scotland/EDB283/2020 |
| EPI\_ISL\_425901 | Scotland/EDB114/2020 |
| EPI\_ISL\_425983 | Scotland/EDB365/2020 |
| EPI\_ISL\_425908 | Scotland/EDB128/2020 |
| EPI\_ISL\_415660 | Chile/Santiago\_op3d1/2020 |
| EPI\_ISL\_425268 | England/CAMB-73A28/2020 |
| EPI\_ISL\_419832 | Australia/NT02/2020 |
| EPI\_ISL\_419508 | Wales/PHWC-24D87/2020 |
| EPI\_ISL\_418096 | Wales/PHWC-23BAC/2020 |
| EPI\_ISL\_422284 | Wales/PHWC-2565E/2020 |
| EPI\_ISL\_421005 | Wales/PHWC-25560/2020 |
| EPI\_ISL\_418124 | Wales/PHWC-23EA3/2020 |
| EPI\_ISL\_421307 | USA/WI-49/2020 |
| EPI\_ISL\_425142 | USA/WI-85/2020 |
| EPI\_ISL\_420907 | Germany/BAV-V2011675/2020 |
| EPI\_ISL\_414566 | Netherlands/ZuidHolland\_24/2020 |
| EPI\_ISL\_410713 | Singapore/7/2020 |
| EPI\_ISL\_420849 | DRC/523/2020 |
| EPI\_ISL\_417442 | DRC/KN-0072/2020 |
| EPI\_ISL\_420801 | Korea/BA-ACH\_2719/2020 |
| EPI\_ISL\_404895 | USA/WA1/2020 |
| EPI\_ISL\_403929 | Wuhan/IPBCAMS-WH-04/2019 |
| EPI\_ISL\_402123 | Wuhan/IPBCAMS-WH-01/2019 |
| EPI\_ISL\_424236 | USA/WA-UW-1732/2020 |
| EPI\_ISL\_424208 | USA/WA-UW-1712/2020 |
| EPI\_ISL\_424221 | USA/WA-UW-1748/2020 |
| EPI\_ISL\_426065 | USA/ID-UW-4357/2020 |
| EPI\_ISL\_416695 | USA/WA-UW157/2020 |
| EPI\_ISL\_424336 | USA/WA-UW-1988/2020 |
| EPI\_ISL\_422982 | USA/UN-UW-1403/2020 |
| EPI\_ISL\_418070 | USA/WA-UW285/2020 |
| EPI\_ISL\_418942 | USA/WA-UW375/2020 |
| EPI\_ISL\_418038 | USA/WA-UW253/2020 |
| EPI\_ISL\_416656 | USA/WA-UW118/2020 |
| EPI\_ISL\_416652 | USA/WA-UW114/2020 |
| EPI\_ISL\_416717 | USA/WA-UW179/2020 |
| EPI\_ISL\_417361 | USA/WA-UW212/2020 |
| EPI\_ISL\_418929 | USA/WA-UW362/2020 |
| EPI\_ISL\_424166 | USA/WA-UW-1620/2020 |
| EPI\_ISL\_426096 | USA/WA-UW-2141/2020 |
| EPI\_ISL\_422999 | USA/WA-UW-1349/2020 |
| EPI\_ISL\_414364 | USA/WA-UW16/2020 |
| EPI\_ISL\_419726 | Australia/VIC119/2020 |
| EPI\_ISL\_419830 | Australia/VIC137/2020 |
| EPI\_ISL\_408666 | Japan/TY-WK-501/2020 |
| EPI\_ISL\_407084 | Japan/AI-I-004/2020 |
| EPI\_ISL\_408479 | Chongqing/ZX01/2020 |
| EPI\_ISL\_418386 | Finland/13M26/2020 |
| EPI\_ISL\_418392 | Finland/13M58/2020 |
| EPI\_ISL\_402120 | Wuhan/IVDC-HB-04/2020 |
| EPI\_ISL\_424916 | USA/MA\_3616/2020 |
| EPI\_ISL\_424912 | USA/MA\_9889/2020 |
| EPI\_ISL\_424895 | USA/IA\_6396/2020 |
| EPI\_ISL\_408010 | USA/CA5/2020 |
| EPI\_ISL\_424970 | Taiwan/CGMH-CGU-14/2020 |
| EPI\_ISL\_424978 | Taiwan/CGMH-CGU-20/2020 |
| EPI\_ISL\_424972 | Taiwan/CGMH-CGU-16/2020 |
| EPI\_ISL\_424975 | Taiwan/CGMH-CGU-19/2020 |
| EPI\_ISL\_408668 | Vietnam/VR03-38142/2020 |
| EPI\_ISL\_418982 | Belgium/HAA-030953/2020 |
| EPI\_ISL\_416331 | Shanghai/SH0022/2020 |
| EPI\_ISL\_416339 | Shanghai/SH0030/2020 |
| EPI\_ISL\_416387 | Shanghai/SH0088/2020 |
| EPI\_ISL\_416388 | Shanghai/SH0091/2020 |
| EPI\_ISL\_416354 | Shanghai/SH0045/2020 |
| EPI\_ISL\_416396 | Shanghai/SH0106/2020 |
| EPI\_ISL\_416384 | Shanghai/SH0083/2020 |
| EPI\_ISL\_415709 | Hangzhou/ZJU-01/2020 |
| EPI\_ISL\_408489 | Taiwan/NTU01/2020 |
| EPI\_ISL\_422407 | Taiwan/NTU04/2020 |
| EPI\_ISL\_417964 | USA/UT-00014/2020 |
| EPI\_ISL\_420808 | USA/UT-00288/2020 |
| EPI\_ISL\_418514 | Hangzhou/HZ576/2020 |
| EPI\_ISL\_418509 | Hangzhou/HZ178/2020 |
| EPI\_ISL\_402125 | Wuhan-Hu-1/2019 |
| EPI\_ISL\_404228 | Zhejiang/WZ-02/2020 |
| EPI\_ISL\_414692 | Guangzhou/GZMU0014/2020 |
| EPI\_ISL\_420544 | India/2020763/2020 |
| EPI\_ISL\_431102 | India/GMC-KN318/2020 |
| EPI\_ISL\_435049 | India/GBRC2/2020 |
| EPI\_ISL\_435054 | India/GBRC7/2020 |
| EPI\_ISL\_421281 | USA/IN-Lilly-IPB0170-4bc21/2020 |
| EPI\_ISL\_421279 | USA/IN-Lilly-IPB0170-4bc20/2020 |
| EPI\_ISL\_435050 | India/GBRC3/2020 |
| EPI\_ISL\_426414 | India/GBRC1/2020 |
| EPI\_ISL\_426415 | India/GBRC1s/2020 |
| EPI\_ISL\_431117 | India/GMC-TC469/2020 |
| EPI\_ISL\_435051 | India/GBRC4/2020 |
| EPI\_ISL\_435052 | India/GBRC5/2020 |
| EPI\_ISL\_435053 | India/GBRC6/2020 |
| EPI\_ISL\_435055 | India/GBRC8/2020 |
| EPI\_ISL\_424866 | USA/IN\_2001/2020 |
| EPI\_ISL\_435062 | India/NCDC-01538/2020 |
| EPI\_ISL\_431101 | India/GMC-RK100/2020 |
| EPI\_ISL\_431103 | India/GMC-KN443/2020 |
| EPI\_ISL\_435056 | India/GBRC9/2020 |
| EPI\_ISL\_420543 | India/763/2020 |
| EPI\_ISL\_420545 | India/770/2020 |
| EPI\_ISL\_420549 | India/773/2020 |
| EPI\_ISL\_420551 | India/777/2020 |
| EPI\_ISL\_420555 | India/c32/2020 |
| EPI\_ISL\_426179 | India/c31/2020 |
| EPI\_ISL\_424362 | India/1135/2020 |
| EPI\_ISL\_424364 | India/3118/2020 |
| EPI\_ISL\_424365 | India/3239/2020 |
| EPI\_ISL\_420547 | India/772/2020 |
| EPI\_ISL\_420553 | India/781/2020 |
| EPI\_ISL\_435061 | India/NCDC-01537/2020 |
| EPI\_ISL\_435070 | India/NCDC-01710/2020 |
| EPI\_ISL\_435071 | India/NCDC-02105/2020 |
| EPI\_ISL\_435063 | India/NCDC-01326/2020 |
| EPI\_ISL\_435067 | India/NCDC-01712/2020 |
| EPI\_ISL\_435068 | India/NCDC-01757/2020 |
| EPI\_ISL\_435066 | India/NCDC-01711/2020 |
| EPI\_ISL\_435064 | India/NCDC-01705/2020 |
| EPI\_ISL\_435069 | India/NCDC-01744/2020 |
| EPI\_ISL\_435065 | India/NCDC-01475/2020 |
| EPI\_ISL\_435074 | India/NCDC-02250/2020 |
| EPI\_ISL\_413523 | India/1-31/2020 |
| EPI\_ISL\_413522 | India/1-27/2020 |
| EPI\_ISL\_421662 | India/1073/2020 |
| EPI\_ISL\_421669 | India/1616/2020 |
| EPI\_ISL\_421671 | India/1621/2020 |
| EPI\_ISL\_421672 | India/1644/2020 |
| EPI\_ISL\_424361 | India/1063/2020 |
| EPI\_ISL\_421664 | India/1100/2020 |
| EPI\_ISL\_421666 | India/1111/2020 |
| EPI\_ISL\_424363 | India/1652/2020 |
| EPI\_ISL\_421663 | India/1093/2020 |
| EPI\_ISL\_421667 | India/1115/2020 |
| EPI\_ISL\_421665 | India/1104/2020 |
| EPI\_ISL\_428479 | India/nimh-0113/2020 |
| EPI\_ISL\_428481 | India/nimh-0130/2020 |
| EPI\_ISL\_428482 | India/nimh-0182/2020 |
| EPI\_ISL\_428483 | India/nimh-0318/2020 |
| EPI\_ISL\_428484 | India/nimh-0351/2020 |
| EPI\_ISL\_428487 | India/nimh-1071/2020 |
| EPI\_ISL\_428486 | India/nimh-0996/2020 |
| EPI\_ISL\_435060 | India/NCDC-01257/2020 |
| EPI\_ISL\_421670 | India/1617/2020 |
| EPI\_ISL\_435075 | India/NCDC-02331/2020 |
| EPI\_ISL\_435081 | India/NCDC-02248/2020 |
| EPI\_ISL\_435090 | India/NCDC-02326/2020 |
| EPI\_ISL\_435091 | India/NCDC-02245/2020 |
| EPI\_ISL\_435086 | India/NCDC-02315/2020 |
| EPI\_ISL\_435082 | India/NCDC-02322/2020 |
| EPI\_ISL\_435083 | India/NCDC-02242/2020 |
| EPI\_ISL\_435094 | India/NCDC-02327/2020 |
| EPI\_ISL\_435112 | India/NCDC-02251/2020 |
| EPI\_ISL\_435096 | India/NCDC-02332/2020 |
| EPI\_ISL\_435095 | India/NCDC-02328/2020 |
| EPI\_ISL\_435097 | India/NCDC-02252/2020 |
| EPI\_ISL\_435100 | India/NCDC-02321/2020 |
| EPI\_ISL\_435093 | India/NCDC-02312/2020 |
| EPI\_ISL\_435092 | India/NCDC-02244/2020 |
| EPI\_ISL\_435088 | India/NCDC-02336/2020 |
| EPI\_ISL\_435098 | India/NCDC-02240/2020 |
| EPI\_ISL\_435085 | India/NCDC-02310/2020 |
| EPI\_ISL\_435099 | India/NCDC-02320/2020 |
| EPI\_ISL\_435080 | India/NCDC-02334/2020 |
| EPI\_ISL\_435101 | India/NCDC-01441/2020 |
| EPI\_ISL\_435102 | India/NCDC-01444/2020 |
| EPI\_ISL\_435105 | India/NCDC-01616/2020 |
| EPI\_ISL\_435103 | India/NCDC-01604/2020 |
| EPI\_ISL\_435104 | India/NCDC-01614/2020 |
| EPI\_ISL\_435106 | India/NCDC-01760/2020 |
| EPI\_ISL\_435111 | India/NCDC-02415/2020 |
| EPI\_ISL\_435078 | India/NCDC-02311/2020 |
| EPI\_ISL\_435108 | India/NCDC-01457/2020 |
| EPI\_ISL\_435079 | India/NCDC-02318/2020 |
| EPI\_ISL\_435084 | India/NCDC-02309/2020 |
| EPI\_ISL\_426422 | USA/IN\_72003/2020 |
| EPI\_ISL\_426423 | USA/IN\_82003/2020 |
| EPI\_ISL\_426424 | USA/IN\_92003/2020 |
| EPI\_ISL\_435073 | India/NCDC-02157/2020 |
| EPI\_ISL\_435109 | India/NCDC-01638/2020 |
| EPI\_ISL\_421668 | India/1125/2020 |
| EPI\_ISL\_428485 | India/nimh-0834/2020 |
| EPI\_ISL\_435072 | India/NCDC-02155/2020 |
| EPI\_ISL\_435087 | India/NCDC-02333/2020 |
| EPI\_ISL\_428480 | India/nimh-0116/2020 |
| EPI\_ISL\_435107 | India/NCDC-02370/2020 |
| EPI\_ISL\_435076 | India/NCDC-02329/2020 |
| EPI\_ISL\_435077 | India/NCDC-02330/2020 |
| EPI\_ISL\_435110 | India/NCDC-01501/2020 |
| EPI\_ISL\_435089 | India/NCDC-02323/2020 |