

Reference sequence (1): hCoV-19/Algeria/G0638_2264/2020|EPI_ISL_418241|2020-03-02
Identities normalised by aligned length.
Colored by: identity

Table with columns: cov, pid, and sequence alignment. Rows list various countries and dates, such as hCoV-19/Algeria/G0638_2264/2020, hCoV-19/Australia/NSW01/2020, etc.

consensus/100%
consensus/90%
consensus/80%
consensus/70%

Table with columns: cov, pid, and sequence alignment. This section shows the alignment for the 70% consensus level, with the same country and date entries as the first table.

Table with columns: 1, and sequence alignment. This section shows the alignment for the 100% consensus level, with the same country and date entries as the first table.

consensus/100%
consensus/90%
consensus/80%
consensus/70%

Table with columns: 1, and sequence alignment. This section shows the alignment for the 100% consensus level, with the same country and date entries as the first table.

46	hCoV-19/NanChang/JX216/2020	EPI_ISL_417420	2020-03-23	91.7%	90.2%
47	hCoV-19/Nepal/61/2020	EPI_ISL_414301	2020-01-13	90.1%	86.1%
48	hCoV-19/Netherlands/Utrecht/1/2020	EPI_ISL_414435	2020-03-03	96.3%	97.5%
49	hCoV-19/New_Zealand/01/2020	EPI_ISL_413490	2020-02-27	97.9%	95.9%
50	hCoV-19/Nonthaburi/61/2020	EPI_ISL_403962	2020-01-08	86.4%	84.2%
51	hCoV-19/Norway/1379/2020	EPI_ISL_417483	2020-02-27	85.5%	82.7%
52	hCoV-19/Pakistan/Gilgit1/2020	EPI_ISL_417444	2020-03-04	95.5%	94.7%
53	hCoV-19/Panama/328677/2020	EPI_ISL_415152	2020-03-06	81.8%	79.8%
54	hCoV-19/pangolin/Guangdong/1/2019	EPI_ISL_410721	2019	81.4%	78.9%
55	hCoV-19/Peru/010/2020	EPI_ISL_415787	2020-03-10	87.6%	84.1%
56	hCoV-19/Poland/PL_P1/2020	EPI_ISL_416488	2020-03-03	82.2%	79.4%
57	hCoV-19/Portugal/CV62/2020	EPI_ISL_413647	2020-03-01	81.8%	80.2%
58	hCoV-19/Russia/StPetersburg-3524/2020	EPI_ISL_415710	2020-03-15	77.3%	79.2%
59	hCoV-19/Saudi_Arabia/KAIMRC-Alghoribi/1/2020	EPI_ISL_416432	2020-03-07	72.7%	76.2%
60	hCoV-19/Scotland/CVR05/2020	EPI_ISL_414027	2020-03-04	97.9%	96.3%
61	hCoV-19/Senegal/003/2020	EPI_ISL_418206	2020-02-28	96.7%	95.5%
62	hCoV-19/Shandong/IVDC-SD-001/2020	EPI_ISL_408482	2020-01-19	83.9%	84.2%
63	hCoV-19/Shanghai/SH0002/2020	EPI_ISL_416316	2020-01-25	93.4%	91.8%
64	hCoV-19/Shenzhen/HKU-SZ-002/2020	EPI_ISL_406030	2020-01-10	92.6%	92.5%
65	hCoV-19/Sichuan/IVDC-SC-001/2020	EPI_ISL_408484	2020-01-15	85.5%	85.5%
66	hCoV-19/Singapore/1/2020	EPI_ISL_406973	2020-01-23	82.6%	79.9%
67	hCoV-19/Slovakia/SK-BMCL1/2020	EPI_ISL_417877	2020-03-06	81.4%	80.7%
68	hCoV-19/South_Africa/R03006-20/2020	EPI_ISL_417186	2020-03-07	78.1%	79.4%
69	hCoV-19/South_Korea/KCDC03/2020	EPI_ISL_407193	2020-01-25	91.3%	90.9%
70	hCoV-19/Spain/Madrid_H10_39/2020	EPI_ISL_417963	2020-03-12	95.9%	96.3%
71	hCoV-19/Sweden/01/2020	EPI_ISL_411951	2020-02-07	83.5%	80.1%
72	hCoV-19/Switzerland/100047377/2020	EPI_ISL_413020	2020-02-27	78.1%	79.4%
73	hCoV-19/Taiwan/2/2020	EPI_ISL_406031	2020-01-23	85.1%	81.3%
74	hCoV-19/USA/A21/2020	EPI_ISL_406223	2020-01-22	84.3%	80.2%
75	hCoV-19/Vietnam/19-018/2020	EPI_ISL_418269	2020-01-22	81.4%	79.7%
76	hCoV-19/Wales/PHW04/2020	EPI_ISL_415041	2020-03-07	97.9%	95.2%
77	hCoV-19/Yunnan/HBCDC-HB-01/2019	EPI_ISL_402132	2019-12-30	84.7%	84.0%
78	hCoV-19/Yunnan/Hu-1/2019	EPI_ISL_402125	2019-12-31	83.1%	80.2%
79	hCoV-19/Yunnan/IVDC-YN-003/2020	EPI_ISL_408480	2020-01-17	82.2%	81.8%
80	hCoV-19/Zhejiang/WZ-01/2020	EPI_ISL_404227	2020-01-16	89.3%	87.4%

consensus/100%

consensus/90%

consensus/80%

consensus/70%

id	cov	pid	161		
1	hCoV-19/Algeria/G0638_2264/2020	EPI_ISL_418241	2020-03-02	100.0%	100.0%
2	hCoV-19/Australia/NSW01/2020	EPI_ISL_407893	2020-01-24	97.9%	96.3%
3	hCoV-19/bat/Yunnan/RaTG13/2013	EPI_ISL_402131	2013-07-24	86.4%	84.4%
4	hCoV-19/Beijing/105/2020	EPI_ISL_413518	2020-01-26	82.6%	79.9%
5	hCoV-19/Belgium/BA-02291/2020	EPI_ISL_415159	2020-02-09	90.9%	90.2%
6	hCoV-19/Brazil/AMBR-02/2020	EPI_ISL_417034	2020-03-16	100.0%	98.0%
7	hCoV-19/Cambodia/0012/2020	EPI_ISL_411902	2020-01-27	82.2%	80.2%
8	hCoV-19/Canada/BC_02421/2020	EPI_ISL_415581	2020-03-01	97.9%	96.3%
9	hCoV-19/Chile/Santiago_op2d1/2020	EPI_ISL_415658	2020-03-06	97.5%	97.9%
10	hCoV-19/China/IQT001/2020	EPI_ISL_412966	2020-02-05	81.0%	78.6%
11	hCoV-19/China/WHU02/2020	EPI_ISL_406717	2020-01-02	83.1%	80.3%
12	hCoV-19/Chongqing/IVDC-CQ-001/2020	EPI_ISL_408481	2020-01-18	81.4%	82.0%
13	hCoV-19/Congo/108/2020	EPI_ISL_417948	2020-03-19	85.1%	82.1%
14	hCoV-19/Denmark/SSI-01/2020	EPI_ISL_416142	2020-02-26	91.7%	90.2%
15	hCoV-19/England/01/2020	EPI_ISL_407071	2020-01-29	85.1%	82.0%
16	hCoV-19/Finland/1/2020	EPI_ISL_407079	2020-01-29	88.4%	84.9%
17	hCoV-19/Hong_Kong/Casae1_2101/2020	EPI_ISL_406534	2020-01-22	90.9%	89.0%
18	hCoV-19/France/ARA094100/2020	EPI_ISL_418412	2020-03-15	85.5%	84.8%
19	hCoV-19/Fujian/13/2020	EPI_ISL_411066	2020-01-22	83.5%	80.1%
20	hCoV-19/Georgia/Tb/2020	EPI_ISL_416482	2020-03-13	84.3%	81.6%
21	hCoV-19/Germany/Baden-Wuerttemberg-1/2020	EPI_ISL_412912	2020-02-25	95.0%	99.1%
22	hCoV-19/Germany/BavPat1/2020	EPI_ISL_406862	2020-01-28	97.9%	96.7%
23	hCoV-19/Germany/NRW-01/2020	EPI_ISL_413488	2020-02-28	97.9%	95.9%
24	hCoV-19/Greece/10/2020	EPI_ISL_418263	2020-03-18	83.5%	80.5%
25	hCoV-19/Guangdong/2020XN4243-P0035/2020	EPI_ISL_413853	2020-01-30	85.5%	88.0%
26	hCoV-19/Guangzhou/20SPF206/2020	EPI_ISL_406533	2020-01-22	89.7%	89.0%
27	hCoV-19/Hangzhou/HZ-1/2020	EPI_ISL_406970	2020-01-20	83.1%	81.0%
28	hCoV-19/Hefei/2/2020	EPI_ISL_412026	2020-02-23	84.3%	80.2%
29	hCoV-19/Hong_Kong/Casae1_2101/2020	EPI_ISL_417176	2020-01-21	97.5%	95.6%
30	hCoV-19/Hungary/1/2020	EPI_ISL_418183	2020-03-17	97.9%	94.4%
31	hCoV-19/Iceland/1/2020	EPI_ISL_417535	2020-03-13	87.2%	84.1%
32	hCoV-19/India/1-31/2020	EPI_ISL_413523	2020-01-31	91.3%	88.0%
33	hCoV-19/Ireland/21023/2020	EPI_ISL_418516	2020-03-06	81.8%	78.1%
34	hCoV-19/Israel/ISR_T0320/2020	EPI_ISL_419210	2020-03-03	79.8%	78.5%
35	hCoV-19/Italy/SPL1/2020	EPI_ISL_412974	2020-01-29	83.1%	80.0%
36	hCoV-19/Japan/DP0005/2020	EPI_ISL_416565	2020-02-15	88.4%	85.9%
37	hCoV-19/Jiangsu/JS01/2020	EPI_ISL_411950	2020-01-23	82.2%	79.8%
38	hCoV-19/Jiangsu/JS02/2020	EPI_ISL_411952	2020-01-24	82.2%	79.8%
39	hCoV-19/Jiangxi/IVDC-JX-002/2020	EPI_ISL_408486	2020-01-11	85.5%	85.5%
40	hCoV-19/Jingzhou/HBCDC-HB-01/2020	EPI_ISL_412459	2020-01-08	83.5%	83.8%
41	hCoV-19/Korea/Hu-1/2020	EPI_ISL_416541	2020-01-02	83.1%	80.3%
42	hCoV-19/Lithuania/CHV11632/2020	EPI_ISL_416741	2020-02-02	85.1%	84.4%
43	hCoV-19/Luxembourg/LNS0158952/2020	EPI_ISL_417534	2020-03-18	78.5%	79.9%
44	hCoV-19/Malaysia/188407/2020	EPI_ISL_417918	2020-03-18	95.5%	93.9%
45	hCoV-19/Mexico/CDMX-INDRE_01/2020	EPI_ISL_412972	2020-02-27	78.9%	79.6%
46	hCoV-19/NanChang/JX216/2020	EPI_ISL_417420	2020-03-23	91.7%	90.2%
47	hCoV-19/Nepal/61/2020	EPI_ISL_414301	2020-01-13	90.1%	86.1%
48	hCoV-19/Netherlands/Utrecht/1/2020	EPI_ISL_414435	2020-03-03	96.3%	97.5%
49	hCoV-19/New_Zealand/01/2020	EPI_ISL_413490	2020-02-27	97.9%	95.9%
50	hCoV-19/Nonthaburi/61/2020	EPI_ISL_403962	2020-01-08	86.4%	84.2%
51	hCoV-19/Norway/1379/2020	EPI_ISL_417483	2020-02-27	85.5%	82.7%
52	hCoV-19/Pakistan/Gilgit1/2020	EPI_ISL_417444	2020-03-04	95.5%	94.7%
53	hCoV-19/Panama/328677/2020	EPI_ISL_415152	2020-03-06	81.8%	79.8%
54	hCoV-19/pangolin/Guangdong/1/2019	EPI_ISL_410721	2019	81.4%	78.9%
55	hCoV-19/Peru/010/2020	EPI_ISL_415787	2020-03-10	87.6%	84.1%
56	hCoV-19/Poland/PL_P1/2020	EPI_ISL_416488	2020-03-03	82.2%	79.4%
57	hCoV-19/Portugal/CV62/2020	EPI_ISL_413647	2020-03-01	81.8%	80.2%
58	hCoV-19/Russia/StPetersburg-3524/2020	EPI_ISL_415710	2020-03-15	77.3%	79.2%
59	hCoV-19/Saudi_Arabia/KAIMRC-Alghoribi/1/2020	EPI_ISL_416432	2020-03-07	72.7%	76.2%
60	hCoV-19/Scotland/CVR05/2020	EPI_ISL_414027	2020-03-04	97.9%	96.3%
61	hCoV-19/Senegal/003/2020	EPI_ISL_418206	2020-02-28	96.7%	95.5%
62	hCoV-19/Shandong/IVDC-SD-001/2020	EPI_ISL_408482	2020-01-19	83.9%	84.2%
63	hCoV-19/Shanghai/SH0002/2020	EPI_ISL_416316	2020-01-25	93.4%	91.8%
64	hCoV-19/Shenzhen/HKU-SZ-002/2020	EPI_ISL_406030	2020-01-10	92.6%	92.5%
65	hCoV-19/Sichuan/IVDC-SC-001/2020	EPI_ISL_408484	2020-01-15	85.5%	85.5%
66	hCoV-19/Singapore/1/2020	EPI_ISL_406973	2020-01-23	82.6%	79.9%
67	hCoV-19/Slovakia/SK-BMCL1/2020	EPI_ISL_417877	2020-03-06	81.4%	80.7%
68	hCoV-19/South_Africa/R03006-20/2020	EPI_ISL_417186	2020-03-07	78.1%	79.4%
69	hCoV-19/South_Korea/KCDC03/2020	EPI_ISL_407193	2020-01-25	91.3%	90.9%
70	hCoV-19/Spain/Madrid_H10_39/2020	EPI_ISL_417963	2020-03-12	95.9%	96.3%
71	hCoV-19/Sweden/01/2020	EPI_ISL_411951	2020-02-07	83.5%	80.1%
72	hCoV-19/Switzerland/100047377/2020	EPI_ISL_413020	2020-02-27	78.1%	79.4%
73	hCoV-19/Taiwan/2/2020	EPI_ISL_406031	2020-01-23	85.1%	81.3%
74	hCoV-19/USA/A21/2020	EPI_ISL_406223	2020-01-22	84.3%	80.2%
75	hCoV-19/Vietnam/19-018/2020	EPI_ISL_418269	2020-01-22	81.4%	79.7%
76	hCoV-19/Wales/PHW04/2020	EPI_ISL_415041	2020-03-07	97.9%	95.2%
77	hCoV-19/Yunnan/HBCDC-HB-01/2019	EPI_ISL_402132	2019-12-30	84.7%	84.0%
78	hCoV-19/Yunnan/Hu-1/2019	EPI_ISL_402125	2019-12-31	83.1%	80.2%
79	hCoV-19/Yunnan/IVDC-YN-003/2020	EPI_ISL_408480	2020-01-17	82.2%	81.8%
80	hCoV-19/Zhejiang/WZ-01/2020	EPI_ISL_404227	2020-01-16	89.3%	87.4%

consensus/100%

consensus/90%

consensus/80%

consensus/70%

id	cov	pid	241		
1	hCoV-19/Algeria/G0638_2264/2020	EPI_ISL_418241	2020-03-02	100.0%	100.0%
2	hCoV-19/Australia/NSW01/2020	EPI_ISL_407893	2020-01-24	97.9%	96.3%
3	hCoV-19/bat/Yunnan/RaTG13/2013	EPI_ISL_402131	2013-07-24	86.4%	84.4%
4	hCoV-19/Beijing/105/2020	EPI_ISL_413518	2020-01-26	82.6%	79.9%
5	hCoV-19/Belgium/BA-02291/2020	EPI_ISL_415159	2020-02-09	90.9%	90.2%
6	hCoV-19/Brazil/AMBR-02/2020	EPI_ISL_417034	2020-03-16	100.0%	98.0%
7	hCoV-19/Cambodia/0012/2020	EPI_ISL_411902	2020-01-27	82.2%	80.2%
8	hCoV-19/Canada/BC_02421/2020	EPI_ISL_415581	2020-03-01	97.9%	96.3%
9	hCoV-19/Chile/Santiago_op2d1/2020	EPI_ISL_415658	2020-03-06	97.5%	97.9%
10	hCoV-19/China/IQT001/2020	EPI_ISL_412966	2020-02-05	81.0%	78.6%
11	hCoV-19/China/WHU02/2020	EPI_ISL_406717	2020-01-02	83.1%	80.3%

1	AACCTTTAAAATCGTGTGGCTGCACCTGGCTGCATGCTTAGTGACCTCAGCAGTATAATTAACAACTAATTACTGTGCTG
2	AACCTTTAAAATCGTGTGGCTGCACCTGGCTGCATGCTTAGTGACCTCAGCAGTATAATTAACAACTAATTACTGTGCTG
3	AACCTTTAAAATCGTGTGGCTGCACCTGGCTGCATGCTTAGTGACCTCAGCAGTATAATTAACAACTAATTACTGTGCTG
4	AACCTTTAAAATCGTGTGGCTGCACCTGGCTGCATGCTTAGTGACCTCAGCAGTATAATTAACAACTAATTACTGTGCTG
5	AACCTTTAAAATCGTGTGGCTGCACCTGGCTGCATGCTTAGTGACCTCAGCAGTATAATTAACAACTAATTACTGTGCTG
6	AACCTTTAAAATCGTGTGGCTGCACCTGGCTGCATGCTTAGTGACCTCAGCAGTATAATTAACAACTAATTACTGTGCTG
7	AACCTTTAAAATCGTGTGGCTGCACCTGGCTGCATGCTTAGTGACCTCAGCAGTATAATTAACAACTAATTACTGTGCTG
8	AACCTTTAAAATCGTGTGGCTGCACCTGGCTGCATGCTTAGTGACCTCAGCAGTATAATTAACAACTAATTACTGTGCTG
9	AACCTTTAAAATCGTGTGGCTGCACCTGGCTGCATGCTTAGTGACCTCAGCAGTATAATTAACAACTAATTACTGTGCTG
10	AACCTTTAAAATCGTGTGGCTGCACCTGGCTGCATGCTTAGTGACCTCAGCAGTATAATTAACAACTAATTACTGTGCTG
11	AACCTTTAAAATCGTGTGGCTGCACCTGGCTGCATGCTTAGTGACCTCAGCAGTATAATTAACAACTAATTACTGTGCTG
12	AACCTTTAAAATCGTGTGGCTGCACCTGGCTGCATGCTTAGTGACCTCAGCAGTATAATTAACAACTAATTACTGTGCTG
13	AACCTTTAAAATCGTGTGGCTGCACCTGGCTGCATGCTTAGTGACCTCAGCAGTATAATTAACAACTAATTACTGTGCTG
14	AACCTTTAAAATCGTGTGGCTGCACCTGGCTGCATGCTTAGTGACCTCAGCAGTATAATTAACAACTAATTACTGTGCTG
15	AACCTTTAAAATCGTGTGGCTGCACCTGGCTGCATGCTTAGTGACCTCAGCAGTATAATTAACAACTAATTACTGTGCTG
16	AACCTTTAAAATCGTGTGGCTGCACCTGGCTGCATGCTTAGTGACCTCAGCAGTATAATTAACAACTAATTACTGTGCTG
17	AACCTTTAAAATCGTGTGGCTGCACCTGGCTGCATGCTTAGTGACCTCAGCAGTATAATTAACAACTAATTACTGTGCTG
18	AACCTTTAAAATCGTGTGGCTGCACCTGGCTGCATGCTTAGTGACCTCAGCAGTATAATTAACAACTAATTACTGTGCTG
19	AACCTTTAAAATCGTGTGGCTGCACCTGGCTGCATGCTTAGTGACCTCAGCAGTATAATTAACAACTAATTACTGTGCTG
20	AACCTTTAAAATCGTGTGGCTGCACCTGGCTGCATGCTTAGTGACCTCAGCAGTATAATTAACAACTAATTACTGTGCTG
21	AACCTTTAAAATCGTGTGGCTGCACCTGGCTGCATGCTTAGTGACCTCAGCAGTATAATTA

12	hCoV-19/Chongqing/IVDC-CQ-001/2020	EPI_ISL_408481	|	2020-01-18	81.4%	82.0%	CTAGGTTTCGTCGGG	-----
13	hCoV-19/Congo/108/2020	EPI_ISL_417948	|	2020-03-19	85.1%	82.1%	CTAGGTTTTCGTCGGG	GTGACC-----
14	hCoV-19/Denmark/SSI-01/2020	EPI_ISL_416142	|	2020-02-26	91.7%	90.2%	CTAGGTTTTCGTCGGG	GTGACGAAAGGTAAGTGGAG-----
15	hCoV-19/England/01/2020	EPI_ISL_407071	|	2020-01-29	85.1%	82.0%	CTAGGTTTTCGTCGGG	GTGACC-----
16	hCoV-19/Finland/1/2020	EPI_ISL_407079	|	2020-01-29	88.4%	84.9%	CTAGGTTTCGTCGGG	GTGACGAAAGGTA-----
17	hCoV-19/Foshan/20SF207/2020	EPI_ISL_406534	|	2020-01-22	90.9%	89.0%	CTAGGTTTCGTCGGG	GTGACGAAAGGTAAGATGG-----
18	hCoV-19/France/ARA094100/2020	EPI_ISL_418412	|	2020-03-15	85.5%	84.8%	CTAGGTTTTCGTCGGG	GTGACCG-----
19	hCoV-19/Fujian/13/2020	EPI_ISL_411066	|	2020-01-22	83.5%	80.1%	CTAGGTTTCGTCGGG	GTGACC-----
20	hCoV-19/Gaetgia/Tb/2020	EPI_ISL_416482	|	2020-03-13	84.3%	81.6%	CTAGGTTTTCGTCGGG	GTGTA-----
21	hCoV-19/Germany/Baden-Wuerttemberg-1/2020	EPI_ISL_412912	|	2020-02-25	95.0%	99.1%	CTAGGTTTTCGTCGGG	GTGACGAAAGGTAAGATGGAGACCTTGT-----
22	hCoV-19/Germany/BavPat1/2020	EPI_ISL_406862	|	2020-01-28	97.9%	96.7%	CTAGGTTTTCGTCGGG	GTGACGAAAGGTAAGATGGAGACCTTGTCCCTGGTTTCAACGAGAAAA-----
23	hCoV-19/Germany/NRW-01/2020	EPI_ISL_413488	|	2020-02-28	97.9%	95.9%	CTAGGTTTTCGTCGGG	GTGACGAAAGGTAAGATGGAGACCTTGTCCCTGGTTTCAACGAGAAAAAC-----
24	hCoV-19/Greece/10/2020	EPI_ISL_418263	|	2020-03-18	83.5%	80.5%	CTAGGTTTTCGTCGGG	GTG-----
25	hCoV-19/Guangdong/2020XN4243-P0035/2020	EPI_ISL_413853	|	2020-01-30	85.5%	88.0%	CTAGGTTTTCGTCGGG	GTGACCG-----
26	hCoV-19/Guangzhou/20SF206/2020	EPI_ISL_406533	|	2020-01-22	89.7%	88.9%	CTAGGTTTTCGTCGGG	GTGACGAAAGGTAAGA-----
27	hCoV-19/Hangzhou/HZ-1/2020	EPI_ISL_406970	|	2020-01-20	83.1%	81.0%	CTAGGTTTTCGTCGGG	GTG-----
28	hCoV-19/Hefei/2/2020	EPI_ISL_412026	|	2020-02-23	84.3%	80.2%	CTAGGTTTTCGTCGGG	GTGTA-----
29	hCoV-19/Hong_Kong/Casel_21012020/2020	EPI_ISL_417176	|	2020-01-21	97.5%	99.6%	CTAGGTTTTCGTCGGG	GTGACGAAAGGTAAGATGGAGACCTTGTCCCTGGTTTCA-----
30	hCoV-19/Hungary/2/2020	EPI_ISL_418183	|	2020-03-17	97.9%	94.4%	CTAGGTTTTCGTCGGG	GTGACGAAAGGTAAGATGGAGACCTTGTCCCTGGTTTCAACGAGAAAAACACACCG-----
31	hCoV-19/Iceland/1/2020	EPI_ISL_417535	|	2020-03-13	87.2%	84.1%	CTAGGTTTTCGTCGGG	GTGACGAAAG-----
32	hCoV-19/India/1-31/2020	EPI_ISL_413523	|	2020-01-31	91.3%	88.0%	CTAGGTTTTCGTCGGG	GTGACGAAAG-----
33	hCoV-19/Ireland/21023/2020	EPI_ISL_418516	|	2020-03-06	81.8%	78.1%	CTAGGTTTTCGTCGGG	GTGAAAGTGA-----
34	hCoV-19/Israel/ISR_IT0320/2020	EPI_ISL_419210	|	2020-03-03	79.8%	78.5%	CTAGGTTTTCGTCGGG	-----
35	hCoV-19/Italy/SPL1/2020	EPI_ISL_412974	|	2020-01-29	83.1%	80.0%	CTAGGTTTTCGTCGGG	GTG-----
36	hCoV-19/Japan/DP0005/2020	EPI_ISL_416565	|	2020-02-15	88.4%	85.9%	CTAGGTTTTCGTCGGG	GTGACGAAAGGTAAGATGGAGACCTTGTCCCTGGTTTCAACGAGAAAAACACCTCCAACCT-----
37	hCoV-19/Jiangsu/JS01/2020	EPI_ISL_411950	|	2020-01-23	82.2%	79.8%	CTAGGTTTTCGTCGGG	-----
38	hCoV-19/Jiangsu/JS02/2020	EPI_ISL_411952	|	2020-01-24	82.2%	79.8%	CTAGGTTTTCGTCGGG	-----
39	hCoV-19/Jiangxi/IVDC-JX-002/2020	EPI_ISL_408486	|	2020-01-11	85.5%	85.5%	CTAGGTTTTCGTCGGG	GTGACCG-----
40	hCoV-19/Jingzhou/HBCDC-HB-01/2020	EPI_ISL_412459	|	2020-01-08	83.5%	83.8%	CTAGGTTTTCGTCGGG	GTG-----
41	hCoV-19/Kuwait/KU09/2020	EPI_ISL_416541	|	2020-03-02	83.1%	80.3%	CTAGGTTTTCGTCGGG	GTG-----
42	hCoV-19/Lithuania/CHVir1632/2020	EPI_ISL_416741	|	2020-02-02	85.1%	84.4%	CTAGGTTTTCGTCGGG	GTGACC-----
43	hCoV-19/Luxembourg/LNS0158952/2020	EPI_ISL_417534	|	2020-03-18	78.5%	79.5%	CTAGGTTTTCGTCGGG	GTGACGAAAGGTAAGATGGAGACCTTGTCC-----
44	hCoV-19/Malaysia/188407/2020	EPI_ISL_417918	|	2020-03-18	95.5%	93.9%	CTAGGTTTTCGTCGGG	GTGACGAAAG-----
45	hCoV-19/Mexico/CDMX-IDNRE_01/2020	EPI_ISL_412972	|	2020-02-27	78.9%	79.6%	CTAGGTTTTCGTCGGG	-----
46	hCoV-19/Nanchang/XZ216/2020	EPI_ISL_417420	|	2020-03-23	91.7%	90.2%	CTAGGTTTTCGTCGGG	GTGACGAAAGGTAAGATGGAG-----
47	hCoV-19/Nepal/61/2020	EPI_ISL_410301	|	2020-01-13	90.1%	86.1%	CTAGGTTTTCGTCGGG	GTGACGAAAGGTAAGAT-----
48	hCoV-19/Netherlands/Utrecht_1/2020	EPI_ISL_414435	|	2020-03-03	96.3%	97.5%	CTAGGTTTTCGTCGGG	GTGACGAAAGGTAAGATGGAGACCTTGTCC-----
49	hCoV-19/New_Zealand/01/2020	EPI_ISL_413490	|	2020-02-27	97.9%	95.9%	CTAGGTTTTCGTCGGG	GTGACGAAAGGTAAGATGGAGACCTTGTCCCTGGTTTCAACGAGAAAAAC-----
50	hCoV-19/Nonthaburi/61/2020	EPI_ISL_403962	|	2020-01-08	86.4%	84.2%	CTAGGTTTTCGTCGGG	GTGACGAA-----
51	hCoV-19/Norway/1379/2020	EPI_ISL_417483	|	2020-02-27	85.5%	82.7%	CTAGGTTTTCGTCGGG	GTGACCG-----
52	hCoV-19/Pakistan/Gilgit1/2020	EPI_ISL_417444	|	2020-03-04	95.5%	94.7%	CTAGGTTTTCGTCGGG	GTGACGAAAGGTAAGATGGAGACCTTGTCC-----
53	hCoV-19/Panama/328677/2020	EPI_ISL_415152	|	2020-03-06	81.8%	79.8%	CTAGGTTTTCGTCGGG	-----
54	hCoV-19/pangolin/Guangdong/1/2019	EPI_ISL_410721	|	2019	81.4%	78.9%	CTAGGTTTTCGTCGGG	-----
55	hCoV-19/Peru/010/2020	EPI_ISL_415787	|	2020-03-10	87.6%	84.1%	CTAGGTTTTCGTCGGG	GTGACGAAAGG-----
56	hCoV-19/Poland/PL_P1/2020	EPI_ISL_416488	|	2020-03-03	82.2%	79.4%	CTAGGTTTTCGTCGGG	-----
57	hCoV-19/Portugal/CV62/2020	EPI_ISL_413647	|	2020-03-01	83.1%	80.2%	CTAGGTTTTCGTCGGG	-----
58	hCoV-19/Russia/StPetersburg-3524/2020	EPI_ISL_415710	|	2020-03-15	77.3%	79.2%	CTAG-----	-----
59	hCoV-19/Saudi_Arabia/KAIMRC-Alghoribi/2020	EPI_ISL_416432	|	2020-03-07	72.7%	76.2%	CTAGGTTTTCGTCGGG	GTGACGAAAGGTAAGATGGAGACCTTGTCCCTGGTTTCAACGAGAAAAAC-----
60	hCoV-19/Scotland/CVR05/2020	EPI_ISL_414027	|	2020-03-04	97.9%	96.3%	CTAGGTTTTCGTCGGG	GTGACGAAAGGTAAGATGGAGACCTTGTCCCTGGTTTCAACGAGAAAAAC-----
61	hCoV-19/Senegal/003/2020	EPI_ISL_418206	|	2020-02-28	96.7%	95.5%	CTAGGTTTTCGTCGGG	GTGACGAAAGGTAAGATGGAGACCTTGTCCCT-----
62	hCoV-19/Shandong/IVDC-SD-001/2020	EPI_ISL_408482	|	2020-01-19	83.9%	84.2%	CTAGGTTTTCGTCGGG	GTG-----
63	hCoV-19/Shanghai/SH0002/2020	EPI_ISL_416316	|	2020-01-25	93.4%	91.8%	CTAGGTTTTCGTCGGG	GTGACGAAAGGTAAGATGGAGACCTTGTCCCTGGTTTCAACGAGAAAAAC-----
64	hCoV-19/Shenzhen/HKU-SZ-002/2020	EPI_ISL_406030	|	2020-01-10	92.6%	92.5%	CTAGGTTTTCGTCGGG	GTGACGAAAGGTAAGATGGAGAG-----
65	hCoV-19/Shichuan/IVDC-SC-001/2020	EPI_ISL_408484	|	2020-01-15	85.5%	85.5%	CTAGGTTTTCGTCGGG	GTGACCG-----
66	hCoV-19/Singapore/1/2020	EPI_ISL_406973	|	2020-01-23	82.6%	79.9%	CTAGGTTTTCGTCGGG	-----
67	hCoV-19/Slovakia/SK-BMCL1/2020	EPI_ISL_417877	|	2020-03-06	81.4%	80.7%	CTAGGTTTTCGTCGGG	-----
68	hCoV-19/South_Africa/R03006-20/2020	EPI_ISL_417186	|	2020-03-07	78.1%	79.4%	CTAGGTTTTCGTCGGG	-----
69	hCoV-19/South_Korea/KMCO3/2020	EPI_ISL_407193	|	2020-01-25	91.3%	90.9%	CTAGGTTTTCGTCGGG	GTGACGAAAGGTAAGATGGAGACCTTGTCCCTGGTTTCAACGAGAAAAAC-----
70	hCoV-19/Spain/Madrid_H10_39/2020	EPI_ISL_417963	|	2020-03-12	95.9%	96.3%	CTAGGTTTTCGTCGGG	GTGACGAAAGGTAAGATGGAGACCTTGTCC-----
71	hCoV-19/Sweden/01/2020	EPI_ISL_411951	|	2020-02-07	83.5%	80.1%	CTAGGTTTTCGTCGGG	GTG-----
72	hCoV-19/Switzerland/1000477377/2020	EPI_ISL_413020	|	2020-02-27	78.1%	79.4%	CTAGGTTTTCGTCGGG	GTGACC-----
73	hCoV-19/Taiwan/2/2020	EPI_ISL_406031	|	2020-01-23	85.1%	81.3%	CTAGGTTTTCGTCGGG	GTGACC-----
74	hCoV-19/USA/AZ1/2020	EPI_ISL_406223	|	2020-01-22	84.3%	80.2%	CTAGGTTTTCGTCGGG	GTGTA-----
75	hCoV-19/Vietnam/19-01S/2020	EPI_ISL_418269	|	2020-01-22	81.4%	79.7%	CTAGGTTTTCGTCGGG	-----
76	hCoV-19/Wales/PHW04/2020	EPI_ISL_415041	|	2020-03-07	97.9%	95.2%	CTAGGTTTTCGTCGGG	GTGACGAAAGGTAAGATGGAGACCTTGTCCCTGGTTTCAACGAGAAAAACACA-----
77	hCoV-19/Wuhan/HBCDC-HB-01/2019	EPI_ISL_402132	|	2019-12-30	84.7%	84.0%	CTAGGTTTTCGTCGGG	GTGACC-----
78	hCoV-19/Wuhan-Hu-1/2019	EPI_ISL_402125	|	2019-12-31	83.1%	80.0%	CTAGGTTTTCGTCGGG	-----
79	hCoV-19/Yunnan/IVDC-YN-003/2020	EPI_ISL_408480	|	2020-01-17	82.2%	81.8%	CTAGGTTTTCGTCGGG	-----
80	hCoV-19/Zhejiang/WZ-01/2020	EPI_ISL_404227	|	2020-01-16	89.3%	87.4%	CTAGGTTTTCGTCGGG	GTGACGAAAGGTAAG-----
consensus/10%							CTAGGTTTTCGTCGGG	-----
consensus/90%							CTAGGTTTTCGTCGGG	-----
consensus/80%							CTAGGTTTTCGTCGGG	-----
consensus/70%							CTAGGTTTTCGTCGGG	-----

					cov	pid	321			4			400
1	hCoV-19/Algeria/G0638_2264/2020	EPI_ISL_418241	|	2020-03-02	100.0%	100.0%	-----	-----	-----	-----	-----	-----	-----
2	hCoV-19/Australia/NSW01/2020	EPI_ISL_407893	|	2020-01-24	97.9%	96.3%	-----	-----	-----	-----	-----	-----	-----
3	hCoV-19/bat/Yunnan/RatG13/2013	EPI_ISL_402131	|	2013-07-24	86.4%	84.4%	-----	-----	-----	-----	-----	-----	-----
4	hCoV-19/Beijing/105/2020	EPI_ISL_413518	|	2020-01-26	82.6%	79.9%	-----	-----	-----	-----	-----	-----	-----
5	hCoV-19/Belgium/BA-02291/2020	EPI_ISL_415159	|	2020-02-29	90.9%	90.2%	-----	-----	-----	-----	-----	-----	-----
6	hCoV-19/Brazil/AMBR-02/2020	EPI_ISL_417034	|	2020-03-16	100.0%	98.0%	-----	-----	-----	-----	-----	-----	-----
7	hCoV-19/Cambodia/188407/2020	EPI_ISL_417918	|	2020-03-18	82.2%	79.4%	-----	-----	-----	-----	-----	-----	-----
8	hCoV-19/Canada/BCC_02421/2020	EPI_ISL_415561	|	2020-03-01	97.9%	96.3%	-----	-----	-----	-----	-----	-----	-----
9	hCoV-19/Chile/Santiago_op2d1/2020	EPI_ISL_415658	|	2020-03-06	97.5%	97.9%	-----	-----	-----	-----	-----	-----	-----
10	hCoV-19/China/IQT001/2020	EPI_ISL_412966	|	2020-02-05	81.0%	78.6%	-----	-----	-----	-----	-----	-----	-----
11	hCoV-19/China/WHU02/2020	EPI_ISL_406717	|	2020-01-02	83.1%	80.3%	-----	-----	-----	-----	-----	-----	-----
12	hCoV-19/Chongqing/IVDC-CQ-001/2020	EPI_ISL_408481	|	2020-01-18	81.4%	82.0%	-----	-----	-----	-----	-----	-----	-----
13	hCoV-19/Congo/108/2020	EPI_ISL_417948	|	2020-03-19	85.1%	82.1%	-----	-----	-----	-----	-----	-----	-----
14	hCoV-19/Denmark/SSI-01/2020	EPI_ISL_416142	|	2020-02-26	91.7%	90.2%	-----	-----	-----	-----	-----	-----	-----
15	hCoV-19/England/01/2020	EPI_ISL_407071	|	2020-01-29	85.1%	82.0%	-----	-----	-----	-----	-----	-----	-----
16	hCoV-19/Finland/1/2020	EPI_ISL_407079	|	2020-01-29	88.4%	84.9%	-----	-----	-----	-----	-----	-----	-----
17	hCoV-19/Foshan/20SF207/2020	EPI_ISL_406534	|	2020-01-22	90.9%	89.0%	-----	-----	-----	-----	-----	-----	-----
18	hCoV-19/France/ARA094100/2020	EPI_ISL_418412	|	2020-03-15	85.5%	84.8%	-----	-----	-----	-----	-----	-----	-----
19	hCoV-19/Fujian/13/2020	EPI_ISL_411066	|	2020-01-22	83.5%	80.1%	-----	-----	-----	-----	-----	-----	-----
20	hCoV-19/Gaetgia/Tb/2020	EPI_ISL_416482	|	2020-03-13	84.3%	81.6%	-----	-----	-----	-----	-----	-----	-----
21	hCoV-19/Germany/Baden-Wuerttemberg-1/2020	EPI_ISL_412912	|	2020-02-25	95.0%	99.1%	-----	-----	-----	-----	-----	-----	-----
22	hCoV-19/Germany/BavPat1/2020	EPI_ISL_406862	|	2020-01-28	97.9%	96.7%	-----	-----	-----	-----	-----	-----	-----
23	hCoV-19/Germany/NRW-01/2020	EPI_ISL_413488	|	2020-02-28	97.9%	95.9%	-----	-----	-----	-----	-----	-----	-----
24	hCoV-19/Greece/10/2020	EPI_ISL_418263	|	2020-03-18	83.5%	80.5%	-----	-----	-----	-----	-----	-----	-----
25	hCoV-19/Guangdong/2020XN4243-P0035/2020	EPI_ISL_413853	|	2020-01-30	85.5%	88.0%	-----	-----	-----	-----	-----	-----	-----
26	hCoV-19/Guangzhou/20SF206/2020	EPI_ISL_406533	|	2020-01-22	89.7%	88.9%	-----	-----	-----	-----	-----	-----	-----
27	hCoV-19/Hangzhou/HZ-1/2020	EPI_ISL_406970	|	2020-01-20	83.1%	81.0%	-----	-----	-----	-----	-----	-----	-----
28	hCoV-19/Hefei/2/2020	EPI_ISL_412026	|	2020-02-23	84.3%	80.2%	-----	-----	-----	-----	-----	-----	-----
29	hCoV-19/Hong_Kong/Casel_21012020/2020	EPI_ISL_417176	|	2020-01-21	97.5%	99.6%	-----	-----	-----	-----	-----	-----	-----
30	hCoV-19/Hungary/2/2020	EPI_ISL_418183	|	2020-03-									

64	hCoV-19/Shenzhen/HKU-SZ-002/2020|EPI_ISL_406030|2020-01-10	92.6%	92.5%	-----
65	hCoV-19/Sichuan/IVDC-SC-001/2020|EPI_ISL_408484|2020-01-15	85.5%	85.5%	-----
66	hCoV-19/Singapore/1/2020|EPI_ISL_406973|2020-01-23	82.6%	79.9%	-----
67	hCoV-19/Slovakia/SK-BMCL/2020|EPI_ISL_417877|2020-03-06	81.4%	80.7%	-----
68	hCoV-19/South_Africa/R03006-20/2020|EPI_ISL_417186|2020-03-07	78.1%	79.4%	-----
69	hCoV-19/South_Korea/KCDC03/2020|EPI_ISL_407193|2020-01-25	91.3%	90.9%	-----
70	hCoV-19/Spain/Madrid_H10_39/2020|EPI_ISL_417963|2020-03-12	95.9%	96.3%	-----
71	hCoV-19/Sweden/01/2020|EPI_ISL_411951|2020-02-07	83.5%	80.1%	-----
72	hCoV-19/Switzerland/1000477377/2020|EPI_ISL_413020|2020-02-27	78.1%	79.4%	-----
73	hCoV-19/Taiwan/2/2020|EPI_ISL_406031|2020-01-23	85.1%	81.3%	-----
74	hCoV-19/USA/AZ1/2020|EPI_ISL_406223|2020-01-22	84.3%	80.2%	-----
75	hCoV-19/Vietnam/19-01S/2020|EPI_ISL_418269|2020-01-22	81.4%	79.7%	-----
76	hCoV-19/Wales/PHW04/2020|EPI_ISL_415041|2020-03-07	97.9%	95.2%	-----
77	hCoV-19/Wuhan/HBCCDC-HB-01/2019|EPI_ISL_402132|2019-12-30	84.7%	84.0%	-----
78	hCoV-19/Wuhan-Hu-1/2019|EPI_ISL_402125|2019-12-31	83.1%	80.0%	-----
79	hCoV-19/Yunnan/IVDC-YN-003/2020|EPI_ISL_408480|2020-01-17	82.2%	81.8%	-----
80	hCoV-19/Zhejiang/WZ-01/2020|EPI_ISL_404227|2020-01-16	89.3%	87.4%	-----
	consensus/100%	.....	.....	.....
	consensus/90%	.....	.....	.....
	consensus/80%	.....	.....	.....
	consensus/70%	.....	.....	.....
		cov	pid	401] 403
1	hCoV-19/Algeria/G0638_2264/2020|EPI_ISL_418241|2020-03-02	100.0%	100.0%	---
2	hCoV-19/Australia/NSW01/2020|EPI_ISL_407893|2020-01-24	97.9%	96.3%	---
3	hCoV-19/bat/Yunnan/RaTG13/2013|EPI_ISL_402131|2013-07-24	86.4%	84.4%	---
4	hCoV-19/Beijing/105/2020|EPI_ISL_413518|2020-01-26	82.6%	79.9%	---
5	hCoV-19/Belgium/BA-02291/2020|EPI_ISL_415159|2020-02-29	90.9%	90.2%	---
6	hCoV-19/Brazil/AMBR-02/2020|EPI_ISL_417034|2020-03-16	100.0%	98.0%	---
7	hCoV-19/Cambodia/0012/2020|EPI_ISL_411902|2020-01-27	82.2%	80.2%	---
8	hCoV-19/Canada/BC_02421/2020|EPI_ISL_415581|2020-03-01	97.9%	96.3%	---
9	hCoV-19/Chile/Santiago_cp2d1/2020|EPI_ISL_415658|2020-03-06	97.5%	97.9%	---
10	hCoV-19/China/IQT001/2020|EPI_ISL_412966|2020-02-05	81.0%	78.6%	---
11	hCoV-19/China/WHU02/2020|EPI_ISL_406717|2020-01-02	83.1%	80.3%	---
12	hCoV-19/Chongqing/IVDC-CQ-001/2020|EPI_ISL_408481|2020-01-18	81.4%	82.0%	---
13	hCoV-19/Congo/108/2020|EPI_ISL_417948|2020-03-19	85.1%	82.1%	---
14	hCoV-19/Denmark/SSI-01/2020|EPI_ISL_416142|2020-02-26	91.7%	90.2%	---
15	hCoV-19/England/01/2020|EPI_ISL_407071|2020-01-29	85.1%	82.0%	---
16	hCoV-19/Finland/1/2020|EPI_ISL_407079|2020-01-29	88.4%	84.9%	---
17	hCoV-19/Foshan/20SF207/2020|EPI_ISL_406534|2020-01-22	90.9%	89.0%	---
18	hCoV-19/France/ARA094100/2020|EPI_ISL_418412|2020-03-15	85.5%	84.8%	---
19	hCoV-19/Fujian/13/2020|EPI_ISL_411066|2020-01-22	83.5%	80.1%	---
20	hCoV-19/Georgia/Tb/2020|EPI_ISL_416482|2020-03-13	84.3%	81.6%	---
21	hCoV-19/Germany/Baden-Wuerttemberg-1/2020|EPI_ISL_412912|2020-02-25	95.0%	99.1%	---
22	hCoV-19/Germany/BavPat1/2020|EPI_ISL_416062|2020-01-28	97.9%	96.7%	---
23	hCoV-19/Germany/NRW-01/2020|EPI_ISL_413488|2020-02-28	97.9%	95.9%	---
24	hCoV-19/Greece/10/2020|EPI_ISL_418263|2020-03-18	83.5%	80.5%	---
25	hCoV-19/Guangdong/2020XN4243-P0035/2020|EPI_ISL_413853|2020-01-30	85.5%	88.0%	---
26	hCoV-19/Guangzhou/20SF206/2020|EPI_ISL_406533|2020-01-22	89.7%	88.9%	---
27	hCoV-19/Hangzhou/HZ-1/2020|EPI_ISL_406970|2020-01-20	83.1%	81.0%	---
28	hCoV-19/Hefei/2/2020|EPI_ISL_412026|2020-02-23	84.3%	80.2%	---
29	hCoV-19/Hong_Kong/Casell_21012020/2020|EPI_ISL_417176|2020-01-21	97.5%	99.6%	---
30	hCoV-19/Hungary/2/2020|EPI_ISL_418183|2020-03-17	97.9%	94.4%	---
31	hCoV-19/Iceland/1/2020|EPI_ISL_417535|2020-03-13	87.2%	84.1%	---
32	hCoV-19/India/1-31/2020|EPI_ISL_413523|2020-01-31	91.3%	88.0%	---
33	hCoV-19/Ireland/21023/2020|EPI_ISL_418516|2020-03-06	81.8%	78.1%	---
34	hCoV-19/Israel/ISR_IT0320/2020|EPI_ISL_419210|2020-03	79.8%	78.5%	---
35	hCoV-19/Italy/SPI1/2020|EPI_ISL_412974|2020-01-29	83.1%	80.0%	---
36	hCoV-19/Japan/DP0005/2020|EPI_ISL_416565|2020-02-15	88.4%	85.9%	---
37	hCoV-19/Jiangsu/JS01/2020|EPI_ISL_411950|2020-01-23	82.2%	79.8%	---
38	hCoV-19/Jiangsu/JS02/2020|EPI_ISL_411952|2020-01-24	82.2%	79.8%	---
39	hCoV-19/Jiangxi/IVDC-JX-002/2020|EPI_ISL_408486|2020-01-11	85.5%	85.5%	---
40	hCoV-19/Jingzhou/HBCCDC-HB-01/2020|EPI_ISL_412459|2020-01-08	83.5%	83.8%	---
41	hCoV-19/Kuwait/KU09/2020|EPI_ISL_416541|2020-03-02	83.1%	80.3%	---
42	hCoV-19/Lithuania/ChVir1632/2020|EPI_ISL_416741|2020-02	85.1%	84.4%	---
43	hCoV-19/Luxembourg/LNS0158952/2020|EPI_ISL_417534|2020-03-18	78.5%	79.5%	---
44	hCoV-19/Malaysia/188407/2020|EPI_ISL_417918|2020-03-18	95.5%	93.9%	---
45	hCoV-19/Mexico/CDMX-INDRE_01/2020|EPI_ISL_412972|2020-02-27	78.9%	79.6%	---
46	hCoV-19/NanChang/JX216/2020|EPI_ISL_417420|2020-03-23	91.7%	90.2%	---
47	hCoV-19/Nepal/61/2020|EPI_ISL_410301|2020-01-13	90.1%	86.1%	---
48	hCoV-19/Netherlands/Utrecht_1/2020|EPI_ISL_414435|2020-03-03	96.3%	97.5%	---
49	hCoV-19/New_Zealand/01/2020|EPI_ISL_413490|2020-02-27	97.9%	95.9%	---
50	hCoV-19/Nonthaburi/61/2020|EPI_ISL_403962|2020-01-08	86.4%	84.2%	---
51	hCoV-19/Norway/1379/2020|EPI_ISL_417483|2020-02-27	85.5%	82.7%	---
52	hCoV-19/Pakistan/Gilgit1/2020|EPI_ISL_417444|2020-03-04	95.5%	94.7%	---
53	hCoV-19/Panama/328677/2020|EPI_ISL_415152|2020-03-06	81.8%	79.8%	---
54	hCoV-19/pangolin/Guangdong/1/2019|EPI_ISL_410721|2019	81.4%	78.9%	---
55	hCoV-19/Peru/010/2020|EPI_ISL_415787|2020-03-10	87.6%	84.1%	---
56	hCoV-19/Poland/PL_P1/2020|EPI_ISL_416488|2020-03-03	82.2%	79.4%	---
57	hCoV-19/Portugal/CV62/2020|EPI_ISL_413647|2020-03-01	81.8%	80.2%	---
58	hCoV-19/Russia/StPetersburg-3524/2020|EPI_ISL_415710|2020-03-15	77.3%	79.2%	---
59	hCoV-19/Saudi_Arabia/KAIMRC-Alghoribi/2020|EPI_ISL_416432|2020-03-07	72.7%	76.2%	---
60	hCoV-19/Scotland/CVR05/2020|EPI_ISL_414027|2020-03-04	97.9%	96.3%	---
61	hCoV-19/Senegal/003/2020|EPI_ISL_418206|2020-02-28	96.7%	95.5%	---
62	hCoV-19/Shandong/IVDC-SD-001/2020|EPI_ISL_408482|2020-01-19	83.9%	84.2%	---
63	hCoV-19/Shanghai/SH0002/2020|EPI_ISL_416316|2020-01-25	93.4%	91.8%	---
64	hCoV-19/Shenzhen/HKU-SZ-002/2020|EPI_ISL_406030|2020-01-10	92.6%	92.5%	---
65	hCoV-19/Sichuan/IVDC-SC-001/2020|EPI_ISL_408484|2020-01-15	85.5%	85.5%	---
66	hCoV-19/Singapore/1/2020|EPI_ISL_406973|2020-01-23	82.6%	79.9%	---
67	hCoV-19/Slovakia/SK-BMCL/2020|EPI_ISL_417877|2020-03-06	81.4%	80.7%	---
68	hCoV-19/South_Africa/R03006-20/2020|EPI_ISL_417186|2020-03-07	78.1%	79.4%	---
69	hCoV-19/South_Korea/KCDC03/2020|EPI_ISL_407193|2020-01-25	91.3%	90.9%	---
70	hCoV-19/Spain/Madrid_H10_39/2020|EPI_ISL_417963|2020-03-12	95.9%	96.3%	---
71	hCoV-19/Sweden/01/2020|EPI_ISL_411951|2020-02-07	83.5%	80.1%	---
72	hCoV-19/Switzerland/1000477377/2020|EPI_ISL_413020|2020-02-27	78.1%	79.4%	---
73	hCoV-19/Taiwan/2/2020|EPI_ISL_406031|2020-01-23	85.1%	81.3%	---
74	hCoV-19/USA/AZ1/2020|EPI_ISL_406223|2020-01-22	84.3%	80.2%	---
75	hCoV-19/Vietnam/19-01S/2020|EPI_ISL_418269|2020-01-22	81.4%	79.7%	---
76	hCoV-19/Wales/PHW04/2020|EPI_ISL_415041|2020-03-07	97.9%	95.2%	---
77	hCoV-19/Wuhan/HBCCDC-HB-01/2019|EPI_ISL_402132|2019-12-30	84.7%	84.0%	---
78	hCoV-19/Wuhan-Hu-1/2019|EPI_ISL_402125|2019-12-31	83.1%	80.0%	---
79	hCoV-19/Yunnan/IVDC-YN-003/2020|EPI_ISL_408480|2020-01-17	82.2%	81.8%	---
80	hCoV-19/Zhejiang/WZ-01/2020|EPI_ISL_404227|2020-01-16	89.3%	87.4%	---
	consensus/100%	.....	.....	.....
	consensus/90%	.....	.....	.....
	consensus/80%	.....	.....	.....
	consensus/70%	.....	.....	.....