Supplementary Table 1. Sequencing results.

Sample ID	Virus_name	Sample Type[#]	Raw valid reads	On-target reads (%)	Genome coverage	Depth	Mean Depth*
2	Mexico/CDMX-INER_01	NPS	13,949,246	12,406 (0.09)	99.17	30	30
5	Mexico/CDMX-INER_02	NPS	26,958,293	28,208 (0.10)	98.56	69	70
6	Mexico/CDMX-INER_03	NPS	11,143,321	3,970 (0.04)	84.25	9	11
7	Mexico/CDMX-INER_04	NPS	10,372,811	21,080 (0.20)	99.82	51	51
8	Mexico/CDMX-INER_05	NPS	2,274,643	11,648 (0.51)	99.73	28	28
13	Mexico/Chihuahua-IMSS_01	NPS	12,785,238	7,331 (0.06)	90.98	18	20
16	Mexico/Chiapas-InDRE_02	OPS	4,322,780	1,739 (0.04)	83.06	4	8
17	Mexico/EdoMex-InDRE_03	NAS	8,173,886	85,170 (1.04)	99.90	200	200
19	Mexico/Queretaro-InDRE_04	OPS	9,394,551	60,545 (0.64)	99.91	145	145
22	Mexico/Puebla-InDRE_05	OPS	5,030,534	39,210 (0.78)	99.90	93	93
24	Mexico/CDMX-InDRE_06	OPS	3,890,600	109,000 (2.81)	99.92	256	256
27	Mexico/CDMX-INCMNSZ_01	NPS	14,770,367	79,364 (0.54)	99.88	164	164
28	Mexico/CDMX-INCMNSZ_02	NPS	2,898,415	21,985 (0.76)	99.90	53	53
30	Mexico/CDMX-INCMNSZ_03	NPS	3,956,195	23,550 (0.60)	99.91	57	57
31	Mexico/CDMX-INCMNSZ_04	NPS	4,581,562	97,388 (2.13)	99.92	228	228
32	Mexico/CDMX-INCMNSZ_05	NPS	2,648,330	7,813 (0.30)	99.34	19	19
33	Mexico/CDMX-InDRE_01	NPS	2,662,304	1,000,109 (37.57)	100.00	3983	3983

[#] Abbreviation: NPS=nasopharyngeal swab, OP= oropharyngeal swab, NAS=nasopharyngeal aspirate

* In relationship to the ratio of unambiguous bases to the reference sequence length (using at least 5 unique reads and 90% agreement during base calling)

Supplementary Table 2. Clustering patterns for the Mexican samples within the reduced and large-scale WG and individual ORF ML trees.

<table>
<thead>
<tr><th>reduced -WG[1]</th><th>large-scale WG[1]</th><th>large-scale Orf1a[1]</th><th>large-scale Orf1b[1]</th><th>large-scale S[1]</th></tr>
</thead>
<tbody>
<tr><td>IE1-bs 78
22_Mexico/Puebla-InDRE_05/2020|EPI_ISL_424672|Mexico_Puebla|31|M|EH_Spain_France|3_11_2020
Portugal/PT0024/2020|EPI_ISL_418009|PRT_Portugal|Age_29|Sex_F|D0_NA|EH_NA|3_15_2020
Basal--bs 96: Spain/Madrid_H11_40/2020|EPI_ISL_417967|ESP_Madrid|Age_44|Sex_F|D0_NA|EH_NA|3_12_2020</td><td>IE1-bs 6
YES</td><td>IE1-bs 0
NO</td><td>IE1-bs 0
YES</td><td>IE1-bs 0
NO-POLYTOMY</td></tr>
<tr><td>IE2-bs 8
32_Mexico/CDMX-INCMNSZ_05/2020|EPI_ISL_426365|Mexico_CDMX|70|F|EH_Vail_USA|3_12_2020
Australia/VIC254/2020|EPI_ISL_419949|AUS_Victoria|Age_67|Sex_M|D0_NA|EH_NA|2020_03_21
Basal--bs 0: Australia/VIC164/2020|EPI_ISL_419861|AUS_Victoria|Age_37|Sex_NA|D0_NA|EH_NA|2020_03_18</td><td>IE2-bs 27
YES</td><td>IE2-bs 0
NO</td><td>IE2-bs 0
NO</td><td>IE2-bs 0
NO</td></tr>
<tr><td>IE3-bs 0
5_Mexico/CDMX-INER_02/2020|EPI_ISL_424348|Mexico_CDMX|55|F|EH_Spain_France|3_13_2020
Spain/Madrid_H12_1905/2020|EPI_ISL_421175|ESP_Madrid|Age_25|Sex_F|D0_NA|EH_NA|2020_03_29
Basal-bs: None</td><td>IE3-bs 0
YES</td><td>IE3-bs 0
NO</td><td>IE3-bs 0
YES-POLYTOMY</td><td>IE3-bs 0
NO</td></tr>
<tr><td>IE4-bs 56
2_Mexico/CDMX-INER_01/2020|EPI_ISL_424345|Mexico_CDMX|42|M|EH_Spain|3_12_2020
Hungary/2/2020|EPI_ISL_418183|HUN_Baranya|Age_26|Sex_F|D0_H|EH_NA|2020_03_17
Basal--bs 0: None</td><td>IE4-bs 61
NO</td><td>IE4-bs 0
NO</td><td>IE4-bs 0
NO-POLYTOMY</td><td>IE4-bs 0
NO</td></tr>
<tr><td>IE5-bs 68
Wales/PHWC_25551/2020|EPI_ISL_421004|GBR_Wales|Age_73|Sex_M|D0_NA|EH_NA|2020_03_23
16_Mexico/Chiapas-InDRE_02/2020|EPI_ISL_424666|Mexico_Chiapas|18|F|EH_Italy|2_29_2020
Basal--bs 0: None</td><td>IE5-bs 19
YES</td><td>IE5-bs 0
NO</td><td>IE5-bs 0
NO</td><td>IE5-bs 0
NO-POLYTOMY</td></tr>
<tr><td>IE6-bs 0
33_Mexico/CDMX-InDRE_01/2020|EPI_ISL_412972|Mexico_CDMX|35|M|EH_Italy|2_27_2020
Basal--bs 1:England/20122119502/2020|EPI_ISL_418681|GBR_England|Age_31|Sex_F|D0_NA|EH_NA|2020_03_17</td><td>IE6-bs 1
NO</td><td>IE6-bs 0
NO-POLYTOMY</td><td>IE6-bs 0
NO-POLYTOMY</td><td>IE6-bs 0
NO-POLYTOMY</td></tr>
<tr><td>IE7-bs 84
6_Mexico/CDMX-INER_03/2020|EPI_ISL_424625|Mexico_CDMX|29|M|EH_Spain|3_13_2020
England/20108034006/2020|EPI_ISL_417258|GBR_England|Age_74|Sex_F|D0_NA|EH_NA|2020_03_06</td><td>IE7-bs 67
YES</td><td>IE7-bs 0
YES</td><td>IE7-bs 27
YES</td><td>IE7-bs 0
NO</td></tr>
<tr><td>IE8-bs 42
Italy/TE4959/2020|EPI_ISL_418259|ITA_Abruzzo|Age_76|Sex_M|D0_NA|EH_NA|2020_03_14
13_Mexico/Chihuahua-IMSS_01/2020|EPI_ISL_424731|Mexico_Chihuahua|21|M|EH_UK_France_USA|3_13_2020
Basal--bs 0: None</td><td>IE8-bs 18
YES</td><td>IE8-bs 0
NO</td><td>IE8-bs 0
NO-POLYTOMY</td><td>IE8-bs 0
NO-POLYTOMY</td></tr>
<tr><td>IE9-bs 91
7_Mexico/CDMX-INER_04/2020|EPI_ISL_424626|Mexico_CDMX|25|F|EH_Egypt_Barcelona_Spain|3_15_2020
England/SHEF_C0707/2020|EPI_ISL_420270|GBR_England|Age_73|Sex_F|D0_NA|EH_NA|2020_03_22
Basal-bs: None</td><td>IE9-bs 79
YES</td><td>IE9-bs 0
YES</td><td>IE9-bs 0
NO-POLYTOMY</td><td>IE9-bs 0
NO</td></tr>
<tr><td>IE10-bs 99
Australia/VIC110/2020|EPI_ISL_419716|AUS_Victoria|Age_62|Sex_F|D0_NA|EH_NA|2020_03_18
24_Mexico/CDMX-InDRE_06/2020|EPI_ISL_424673|Mexico_CDMX|63|F|EH_Denver_USA|3_12_2020</td><td>IE10-bs 0
NO</td><td>IE10-bs 2
YES</td><td>IE10-bs 0
YES-POLYTOMY</td><td>IE10-bs 0
YES-POLYTOMY</td></tr>
<tr><td>LT11-bs 100 CLUSTER
31_Mexico/CDMX-INCMNSZ_04/2020|EPI_ISL_426364|Mexico_CDMX|70|M|EH_Vail_USA|3_12_2020
8_Mexico/CDMX-INER_05/2020|EPI_ISL_424627|Mexico_CDMX|38|M|EH_None|3_15_2020
27_Mexico/CDMX-INCMNSZ_01/2020|EPI_ISL_426361|Mexico_CDMX|32|M|EH_None|3_12_2020
30_Mexico/CDMX-INCMNSZ_03/2020|EPI_ISL_426363|Mexico_CDMX|38|M|EH_None|3_12_2020
Basal-bs: None</td><td>IE11-bs 98 CLUSTER
YES</td><td>C11.1--bs 0
BROKEN CLUSTER</td><td>C11.1--bs 0
BROKEN CLUSTER</td><td>IE11-bs 89 CLUSTER
YES</td></tr>
<tr><td>IE12-bs 2
28_Mexico/CDMX-INCMNSZ_02/202|EPI_ISL_426362|Mexico_CDMX|71|M|EH_Vail_USA_Germany|3_10_2020
Basal--bs 0: Spain/CastillayLeon201372/2020|EPI_ISL_418249|ESP_Castilla_y_Leon|Age_25|Sex_F|D0_NA|EH_NA|2020_03_03</td><td>IE12-bs 0
YES</td><td>IE12-bs 0
YES</td><td>IE12-bs 0
YES-POLYTOMY</td><td>IE12-bs 0
NO</td></tr>
<tr><td>IE13 -bs 87
Chile/Talca_2/2020|EPI_ISL_414578|CHL_Talca|Age_33|Sex_F|D0_NA|EH_NA|2020_03_04
Chile/Talca_1/2020|EPI_ISL_414577|CHL_Talca|Age_33|Sex_M|D0_R|EH_Asia_Europe|2020_03_02
17_Mexico/EdoMex-InDRE_03/2020|EPI_ISL_424667|Mexico_Edomex|71|M|EH_Italy|3_4_2020</td><td>IE13-bs 0
YES</td><td>IE13-bs 0
YES</td><td>IE13-bs 33
YES</td><td>IE13-bs 0
NO</td></tr>
<tr><td>Basal-bs 2: 19_Mexico/Queretaro-InDRE_04/2020|EPI_ISL_424670|Mexico_Queretaro|43|M|EH_Spain_Holand_USA|13_10_2020</td><td>NO-POLYTOMY-BROKEN CLUSTER WITH 19</td><td>NO-POLYTOMY-BROKEN CLUSTER WITH 19</td><td>NO-POLYTOMY-BROKEN CLUSTER WITH 19</td><td>NO</td></tr>
</tbody>
</table>

[1] Consistency for clustering patterns observed within >2 trees and/or bootstrap support values >50 are indicated in red. YES/NO indicates conserved clustering patterns.

Supplementary Table 3. List of sequences and corresponding metadata used for the reduced alignments.

Virus_name	Accession_ID	Location_Country_City	Age_X	Sex_M/F	DO_S/D/NA	EH_Country	Collection_date
Australia/NSW05/2020	EPI_ISL_412975	AUS_New_South_Wales	Age_43	Sex_M	D0_R	EH_Iran	2_28_2020
Australia/NSW14/2020	EPI_ISL_413600	AUS_New_South_Wales	Age_41	Sex_F	D0_R	EH_NA	3_3_2020
Australia/NSW27/2020	EPI_ISL_417390	AUS_New_South_Wales	Age_72	Sex_M	D0_NA	EH_NA	3_8_2020
Australia/QLDID919/2020	EPI_ISL_417031	AUS_Queensland	Age_63	Sex_F	D0_NA	EH_NA	3_11_2020
Australia/VIC110/2020	EPI_ISL_419716	AUS_Victoria	Age_62	Sex_F	D0_NA	EH_NA	3_18_2020
Australia/VIC123/2020	EPI_ISL_419731	AUS_Victoria	Age_69	Sex_M	D0_NA	EH_NA	3_20_2020
Australia/VIC128/2020	EPI_ISL_419730	AUS_Victoria	Age_27	Sex_M	D0_NA	EH_NA	3_20_2020
Australia/VIC130/2020	EPI_ISL_419823	AUS_Victoria	Age_74	Sex_M	D0_NA	EH_NA	3_21_2020
Australia/VIC134/2020	EPI_ISL_419827	AUS_Victoria	Age_21	Sex_F	D0_NA	EH_NA	3_22_2020
Australia/VIC138/2020	EPI_ISL_419834	AUS_Victoria	Age_79	Sex_NA	D0_NA	EH_NA	2_23_2020
Australia/VIC154/2020	EPI_ISL_419851	AUS_Victoria	Age_39	Sex_M	D0_NA	EH_NA	3_17_2020
Australia/VIC163/2020	EPI_ISL_419860	AUS_Victoria	Age_26	Sex_M	D0_NA	EH_NA	3_18_2020
Australia/VIC164/2020	EPI_ISL_419861	AUS_Victoria	Age_37	Sex_NA	D0_NA	EH_NA	3_18_2020
Australia/VIC177/2020	EPI_ISL_419874	AUS_Victoria	Age_66	Sex_M	D0_NA	EH_NA	3_18_2020
Australia/VIC194/2020	EPI_ISL_419890	AUS_Victoria	Age_31	Sex_M	D0_NA	EH_NA	3_19_2020
Australia/VIC20/2020	EPI_ISL_419741	AUS_Victoria	Age_NA	Sex_NA	D0_NA	EH_NA	3_8_2020
Australia/VIC204/2020	EPI_ISL_419899	AUS_Victoria	Age_69	Sex_M	D0_NA	EH_NA	3_19_2020
Australia/VIC213/2020	EPI_ISL_419908	AUS_Victoria	Age_24	Sex_M	D0_NA	EH_NA	3_20_2020
Australia/VIC222/2020	EPI_ISL_419917	AUS_Victoria	Age_74	Sex_M	D0_NA	EH_NA	3_20_2020
Australia/VIC226/2020	EPI_ISL_419921	AUS_Victoria	Age_67	Sex_M	D0_NA	EH_NA	3_20_2020
Australia/VIC228/2020	EPI_ISL_419923	AUS_Victoria	Age_67	Sex_NA	D0_NA	EH_NA	3_20_2020
Australia/VIC244/2020	EPI_ISL_419939	AUS_Victoria	Age_59	Sex_M	D0_NA	EH_NA	3_21_2020
Australia/VIC249/2020	EPI_ISL_419944	AUS_Victoria	Age_58	Sex_M	D0_NA	EH_NA	3_21_2020
Australia/VIC254/2020	EPI_ISL_419949	AUS_Victoria	Age_67	Sex_M	D0_NA	EH_NA	3_21_2020
Australia/VIC256/2020	EPI_ISL_420036	AUS_Victoria	Age_61	Sex_F	D0_NA	EH_NA	3_21_2020
Australia/VIC274/2020	EPI_ISL_419967	AUS_Victoria	Age_80	Sex_F	D0_NA	EH_NA	3_22_2020
Australia/VIC278/2020	EPI_ISL_419971	AUS_Victoria	Age_40	Sex_M	D0_NA	EH_NA	3_22_2020
Australia/VIC293/2020	EPI_ISL_419984	AUS_Victoria	Age_48	Sex_F	D0_NA	EH_NA	3_23_2020
Australia/VIC299/2020	EPI_ISL_419990	AUS_Victoria	Age_74	Sex_F	D0_NA	EH_NA	3_23_2020
Australia/VIC300/2020	EPI_ISL_419991	AUS_Victoria	Age_35	Sex_NA	D0_NA	EH_NA	3_23_2020
Australia/VIC304/2020	EPI_ISL_419995	AUS_Victoria	Age_69	Sex_F	D0_NA	EH_NA	3_23_2020
Australia/VIC60/2020	EPI_ISL_419772	AUS_Victoria	Age_42	Sex_M	D0_NA	EH_NA	3_13_2020
Australia/VIC68/2020	EPI_ISL_419782	AUS_Victoria	Age_65	Sex_M	D0_NA	EH_NA	3_13_2020
Australia/VIC69/2020	EPI_ISL_419783	AUS_Victoria	Age_62	Sex_F	D0_NA	EH_NA	3_13_2020
Australia/VIC79/2020	EPI_ISL_419791	AUS_Victoria	Age_37	Sex_M	D0_NA	EH_NA	3_14_2020
Australia/VIC82/2020	EPI_ISL_419794	AUS_Victoria	Age_43	Sex_M	D0_NA	EH_NA	3_14_2020
Austria/CeMM0001/2020	EPI_ISL_419654	AUT	Age_27	Sex_F	D0_NA	EH_NA	3_3_2020
Austria/CeMM0002/2020	EPI_ISL_419655	AUT_Vienna	Age_73	Sex_M	D0_NA	EH_NA	2_26_2020
Austria/CeMM0009/2020	EPI_ISL_419662	AUT_Vienna	Age_72	Sex_M	D0_D	EH_NA	3_14_2020
Austria/CeMM0020/2020	EPI_ISL_419673	AUT	Age_37	Sex_F	D0_NA	EH_NA	3_22_2020
Belarus/ChVir2072/2020	EPI_ISL_419692	BLR	Age_NA	Sex_NA	D0_NA	EH_NA	03_2020
Belgium/BJ_0325181/2020	EPI_ISL_420438	BEL_Herselt	Age_85	Sex_M	D0_NA	EH_NA	3_25_2020
Belgium/DME_0324135/2020	EPI_ISL_420392	BEL_Linter	Age_76	Sex_M	D0_NA	EH_NA	3_24_2020
Belgium/DMM_0325180/2020	EPI_ISL_420437	BEL_Grimbergen	Age_38	Sex_M	D0_NA	EH_NA	3_25_2020
Belgium/DRV_0325157/2020	EPI_ISL_420414	BEL_Wanze	Age_29	Sex_M	D0_NA	EH_NA	3_25_2020
Belgium/DV_0324117/2020	EPI_ISL_420374	BEL_Beersel	Age_49	Sex_F	D0_NA	EH_NA	3_24_2020
Belgium/DVG_0325146/2020	EPI_ISL_420403	BEL_Geraardsbergen	Age_56	Sex_M	D0_NA	EH_NA	3_25_2020
Belgium/JJC_0325165/2020	EPI_ISL_420422	BEL_Tielt_Winge	Age_91	Sex_M	D0_NA	EH_NA	3_25_2020
Belgium/MNL_0324130/2020	EPI_ISL_420387	BEL_Sint_Agatha_Berchem	Age_51	Sex_F	D0_NA	EH_NA	3_24_2020
Belgium/RS_030257/2020	EPI_ISL_418986	BEL_Hoegaarden	Age_18	Sex_M	D0_NA	EH_NA	3_2_2020
Belgium/UGent_11/2020	EPI_ISL_419259	BEL_Ghent	Age_64	Sex_M	D0_NA	EH_NA	3_24_2020
Belgium/ULG_10028/2020	EPI_ISL_421202	BEL_ Liege	Age_45	Sex_F	D0_NA	EH_NA	3_30_2020
Belgium/VAG_03013/2020	EPI_ISL_415155	BEL_Huldenberg	Age_14	Sex_F	D0_NA	EH_NA	3_1_2020
Belgium/VHV_0324118/2020	EPI_ISL_420375	BEL_Tervuren	Age_38	Sex_F	D0_NA	EH_NA	3_24_2020
Belgium/VLM_03011/2020	EPI_ISL_415153	BEL_Huldenberg	Age_48	Sex_F	D0_NA	EH_NA	3_3_2020
Belgium/VPE_030650/2020	EPI_ISL_418805	BEL_Deinze	Age_28	Sex_M	D0_NA	EH_NA	3_6_2020
Brazil/ES_225/2020	EPI_ISL_415128	BRA_Espirito_Santo	Age_37	Sex_F	D0_NA	EH_NA	2_29_2020
Canada/BC_4078583/2020	EPI_ISL_418824	CAN_British_Columbia	Age_59	Sex_F	D0_NA	EH_NA	3_3_2020
Canada/ON_PHL3458/2020	EPI_ISL_418368	CAN_Ontario	Age_34	Sex_F	D0_NA	EH_NA	3_12_2020
Canada/ON_PHL7590/2020	EPI_ISL_418373	CAN_Ontario	Age_70	Sex_M	D0_NA	EH_NA	3_14_2020
Canada/ON_PHL8580/2020	EPI_ISL_418330	CAN_Ontario	Age_40	Sex_F	D0_NA	EH_NA	3_5_2020
Chile/Santiago_op4d1/2020	EPI_ISL_415661	CHL_Santiago	Age_17	Sex_M	D0_NA	EH_NA	3_8_2020
Chile/Talca_1/2020	EPI_ISL_414577	CHL_Talca	Age_33	Sex_M	D0_R	EH_Asia_Europe	3_2_2020
Chile/Talca_2/2020	EPI_ISL_414578	CHL_Talca	Age_33	Sex_F	D0_NA	EH_NA	3_4_2020
Denmark/SSI_02/2020	EPI_ISL_416143	DNK_Copenhagen	Age_54	Sex_M	D0_NA	EH_NA	2_28_2020
Denmark/SSI_04/2020	EPI_ISL_416153	DNK_Copenhagen	Age_49	Sex_M	D0_NA	EH_NA	3_2_2020
England/200960041/2020	EPI_ISL_414008	GBR_England	Age_42	Sex_M	D0_NA	EH_NA	2_27_2020
England/200960515/2020	EPI_ISL_414009	GBR_England	Age_43	Sex_F	D0_NA	EH_NA	2_25_2020
England/200990723/2020	EPI_ISL_414012	GBR_England	Age_54	Sex_F	D0_NA	EH_NA	2_27_2020
England/20104035803/2020	EPI_ISL_417238	GBR_England	Age_80	Sex_M	D0_NA	EH_NA	3_3_2020
England/20108034006/2020	EPI_ISL_417258	GBR_England	Age_74	Sex_F	D0_NA	EH_NA	3_6_2020
England/20109050706/2020	EPI_ISL_417268	GBR_England	Age_59	Sex_M	D0_NA	EH_NA	3_5_2020
England/20122074602/2020	EPI_ISL_418676	GBR_England	Age_89	Sex_M	D0_NA	EH_NA	3_10_2020
England/20122119502/2020	EPI_ISL_418681	GBR_England	Age_31	Sex_F	D0_NA	EH_NA	3_17_2020
England/20124049402/2020	EPI_ISL_418723	GBR_England	Age_78	Sex_F	D0_NA	EH_NA	3_16_2020
England/20128035202/2020	EPI_ISL_420477	GBR_England	Age_56	Sex_F	D0_NA	EH_NA	3_18_2020
England/20139047804/2020	EPI_ISL_420697	GBR_England	Age_89	Sex_F	D0_NA	EH_NA	3_29_2020
England/20139048804/2020	EPI_ISL_420698	GBR_England	Age_61	Sex_M	D0_NA	EH_NA	3_28_2020
England/20139055304/2020	EPI_ISL_420715	GBR_England	Age_86	Sex_F	D0_NA	EH_NA	3_29_2020
England/20139056904/2020	EPI_ISL_420716	GBR_England	Age_88	Sex_M	D0_NA	EH_NA	3_26_2020
England/20139057004/2020	EPI_ISL_420717	GBR_England	Age_88	Sex_M	D0_NA	EH_NA	3_26_2020
England/20139060004/2020	EPI_ISL_420731	GBR_England	Age_64	Sex_M	D0_NA	EH_NA	3_28_2020
England/20139062704/2020	EPI_ISL_420742	GBR_England	Age_93	Sex_F	D0_NA	EH_NA	3_28_2020
England/SHEF_BFD54/2020	EPI_ISL_416740	GBR_England	Age_45	Sex_M	D0_NA	EH_NA	3_3_2020
England/SHEF_BFF6D/2020	EPI_ISL_418313	GBR_England	Age_93	Sex_M	D0_NA	EH_NA	3_24_2020
England/SHEF_C0163/2020	EPI_ISL_420255	GBR_England	Age_31	Sex_M	D0_NA	EH_NA	3_25_2020
England/SHEF_C0181/2020	EPI_ISL_420260	GBR_England	Age_53	Sex_M	D0_NA	EH_NA	3_24_2020
England/SHEF_C0585/2020	EPI_ISL_420247	GBR_England	Age_45	Sex_F	D0_NA	EH_NA	3_25_2020
England/SHEF_C05FE/2020	EPI_ISL_420243	GBR_England	Age_85	Sex_F	D0_NA	EH_NA	3_25_2020
England/SHEF_C0707/2020	EPI_ISL_420270	GBR_England	Age_73	Sex_F	D0_NA	EH_NA	3_22_2020
England/SHEF_C07CB/2020	EPI_ISL_420158	GBR_England	Age_54	Sex_F	D0_NA	EH_NA	3_28_2020
England/Sheff01/2020	EPI_ISL_414500	GBR_England	Age_27	Sex_F	D0_NA	EH_NA	3_4_2020
England/Sheff02/2020	EPI_ISL_414501	GBR_England	Age_26	Sex_M	D0_NA	EH_NA	3_3_2020
Finland/FIN03032020B/2020	EPI_ISL_413603	FIN_Helsinki	Age_55	Sex_F	D0_NA	EH_NA	3_3_2020
France/GE1583/2020	EPI_ISL_414600	FRA_Grand_Est	Age_33	Sex_M	D0_H	EH_NA	2_26_2020
France/GE1583/2020	EPI_ISL_414623	FRA_Grand_Est	Age_36	Sex_M	D0_NA	EH_NA	2_25_2020
Georgia/Tb_468/2020	EPI_ISL_415643	GEO_Tbilisi	Age_NA	Sex_M	D0_NA	EH_NA	3_10_2020
Georgia/Tb_537/2020	EPI_ISL_416480	GEO_Tbilisi	Age_NA	Sex_M	D0_NA	EH_NA	3_11_2020
Georgia/Tb_54/2020	EPI_ISL_415641	GEO_Tbilisi	Age_NA	Sex_F	D0_NA	EH_NA	2_27_2020
Germany/BavPat3/2020	EPI_ISL_414521	DEU_Bavaria	Age_38	Sex_F	D0_H	EH_NA	3_2_2020
Germany/NRW_01/2020	EPI_ISL_413488	DEU_North_Rhine_Westphalia	Age_NA	Sex_NA	D0_NA	EH_NA	2_28_2020
Germany/NRW_04/2020	EPI_ISL_414499	DEU_North_Rhine_Westphalia	Age_NA	Sex_NA	D0_NA	EH_NA	2_26_2020
Germany/NRW_09/2020	EPI_ISL_414509	DEU_North_Rhine_Westphalia	Age_NA	Sex_NA	D0_NA	EH_NA	2_28_2020
Germany/NRW_15/2020	EPI_ISL_419532	DEU_Duesseldor	Age_NA	Sex_NA	D0_NA	EH_NA	3_11_2020
Greece/16/2020	EPI_ISL_418265	Greece_Athens	Age_NA	Sex_NA	D0_NA	EH_NA	3_18_2020
Guangzhou/GZMU0031/2020	EPI_ISL_414687	CHN	Age_60	Sex_M	D0_NA	EH_NA	2_25_2020
Hong_Kong/HKPU29_0102/2020	EPI_ISL_417187	HKG_Hong_Kong	Age_91	Sex_F	D0_NA	EH_NA	2_8_2020
Hong_Kong/HKPU32_0402/2020	EPI_ISL_417193	HKG_Hong_Kong	Age_22	Sex_M	D0_NA	EH_NA	2_9_2020
Hong_Kong/HKPU40_2801/2020	EPI_ISL_419215	HKG_Hong_Kong	Age_86	Sex_F	D0_NA	EH_NA	2_10_2020
Hungary/2/2020	EPI_ISL_418183	HUN_Baranya	Age_26	Sex_F	D0_H	EH_NA	3_17_2020
Iceland/150/2020	EPI_ISL_417711	ISL_Reykjavik	Age_40	Sex_M	D0_NA	EH_AUS	3_13_2020
Iceland/189/2020	EPI_ISL_417709	ISL_Reykjavik	Age_71	Sex_F	D0_NA	EH_NA	3_16_2020
Iceland/253/2020	EPI_ISL_417581	ISL_Reykjavik	Age_17	Sex_F	D0_NA	EH_AUS	3_17_2020
Iceland/313/2020	EPI_ISL_417642	ISL_Reykjavik	Age_20	Sex_F	D0_NA	EH_AUS	3_18_2020
Iceland/314/2020	EPI_ISL_417643	ISL_Reykjavik	Age_22	Sex_M	D0_NA	EH_AUS	3_18_2020
Iceland/334/2020	EPI_ISL_417663	ISL_Reykjavik	Age_68	Sex_F	D0_NA	EH_UK	3_14_2020
Iceland/335/2020	EPI_ISL_417664	ISL_Reykjavik	Age_50	Sex_F	D0_NA	EH_NA	3_13_2020
Iceland/38/2020	EPI_ISL_417672	ISL_Reykjavik	Age_38	Sex_M	D0_NA	EH_UK	3_16_2020
Italy/INMI3/2020	EPI_ISL_417921	ITA_Rome	Age_32	Sex_M	D0_NA	EH_NA	3_1_2020
Italy/TE4959/2020	EPI_ISL_418259	ITA_Abruzzo	Age_76	Sex_M	D0_NA	EH_NA	3_14_2020
Japan/DP0236/2020	EPI_ISL_416585	JPN_Diamond_Princess	Age_NA	Sex_NA	D0_A	EH_NA	2_16_2020
Japan/DP0457/2020	EPI_ISL_416601	JPN_Diamond_Princess	Age_NA	Sex_NA	D0_A	EH_NA	2_16_2020
Japan/DP0588/2020	EPI_ISL_416610	JPN_Diamond_Princess	Age_NA	Sex_NA	D0_A	EH_NA	2_17_2020
Japan/DP0699/2020	EPI_ISL_416617	JPN_Diamond_Princess	Age_NA	Sex_NA	D0_A	EH_NA	2_17_2020
Japan/DP0743/2020	EPI_ISL_416621	JPN_Diamond_Princess	Age_NA	Sex_NA	D0_A	EH_NA	2_17_2020
Japan/DP0880/2020	EPI_ISL_416633	JPN_Diamond_Princess	Age_NA	Sex_NA	D0_A	EH_NA	2_17_2020
Japan/UT_NCGM02/2020	EPI_ISL_418809	JPN_Tokyo	Age_NA	Sex_NA	D0_NA	EH_NA	2_1_2020
Luxembourg/LNS7866283/2020	EPI_ISL_419596	LUX_Luxembourg	Age_27	Sex_M	D0_NA	EH_NA	3_12_2020
Netherlands/Limburg_4/2020	EPI_ISL_414426	NLD_Limburg	Age_NA	Sex_NA	D0_NA	EH_NA	3_3_2020
Netherlands/NA_23/2020	EPI_ISL_415480	NLD_Netherlands	Age_NA	Sex_NA	D0_NA	EH_NA	3_9_2020
Netherlands/NoordBrabant_1/2020	EPI_ISL_414428	NLD_North_Brabant	Age_NA	Sex_NA	D0_NA	EH_NA	3_2_2020
Netherlands/NoordBrabant_5/2020	EPI_ISL_414430	NLD_North_Brabant	Age_NA	Sex_NA	D0_NA	EH_NA	3_5_2020
Norway/2090/2020	EPI_ISL_420153	NOR	Age_NA	Sex_NA	D0_NA	EH_NA	3_16_2020
Panama/328677/2020	EPI_ISL_415152	PAN_Panama_City	Age_40	Sex_F	D0_NA	EH_Europe	3_6_2020
Portugal/PT0009/2020	EPI_ISL_417994	PRT_Portugal	Age_72	Sex_F	D0_NA	EH_NA	3_8_2020
Portugal/PT0024/2020	EPI_ISL_418009	PRT_Portugal	Age_29	Sex_F	D0_NA	EH_NA	3_15_2020
Senegal/136/2020	EPI_ISL_418216	SEN_Dakar	Age_51	Sex_M	D0_L	EH_NA	3_13_2020
Shanghai/SH0012/2020	EPI_ISL_416325	CHN_Shanghai	Age_76	Sex_M	D0_NA	EH_NA	2_2_2020
Shanghai/SH0026/2020	EPI_ISL_416335	CHN_Shanghai	Age_26	Sex_M	D0_NA	EH_NA	2_2_2020
Shanghai/SH0054/2020	EPI_ISL_416362	CHN_Shanghai	Age_39	Sex_F	D0_NA	EH_NA	2_2_2020
Shanghai/SH0056/2020	EPI_ISL_416364	CHN_Shanghai	Age_59	Sex_M	D0_NA	EH_NA	2_8_2020
Shanghai/SH0074/2020	EPI_ISL_416377	CHN_Shanghai	Age_25	Sex_M	D0_NA	EH_NA	2_7_2020
Shanghai/SH0112/2020	EPI_ISL_416400	CHN_Shanghai	Age_33	Sex_F	D0_NA	EH_NA	2_2_2020
Singapore/17/2020	EPI_ISL_418992	SGP_Singapore	Age_71	Sex_M	D0_NA	EH_NA	2_10_2020
Singapore/25/2020	EPI_ISL_420102	SGP_Singapore	Age_62	Sex_M	D0_NA	EH_NA	3_5_2020
Singapore/26/2020	EPI_ISL_420103	SGP_Singapore	Age_62	Sex_F	D0_NA	EH_NA	3_5_2020
Singapore/29/2020	EPI_ISL_420106	SGP_Singapore	Age_33	Sex_F	D0_NA	EH_NA	3_6_2020
Singapore/3/2020	EPI_ISL_407988	SGP_Singapore	Age_56	Sex_M	D0_NA	EH_NA	2_1_2020
South_Korea/KUMC01/2020	EPI_ISL_413017	KOR_South_Korea	Age_NA	Sex_NA	D0_NA	EH_NA	2_6_2020
Spain/Andalucia201617/2020	EPI_ISL_419230	ESP_Andalusia	Age_NA	Sex_F	D0_NA	EH_NA	3_5_2020
Spain/CastillaLaMancha201328/2020	EPI_ISL_418245	ESP_Castilla_La_Mancha	Age_76	Sex_M	D0_NA	EH_NA	3_1_2020
Spain/CastillaLaMancha201329/2020	EPI_ISL_418246	ESP_Castilla_La_Mancha	Age_56	Sex_M	D0_NA	EH_NA	3_1_2020
Spain/CastillayLeon201372/2020	EPI_ISL_418249	ESP_Castilla_y_Leon	Age_25	Sex_F	D0_NA	EH_NA	3_3_2020
Spain/LaRioja201575/2020	EPI_ISL_419234	ESP_La_Rioja	Age_57	Sex_M	D0_NA	EH_NA	3_3_2020
Spain/Madrid_H11_40/2020	EPI_ISL_417967	ESP_Madrid	Age_44	Sex_F	D0_NA	EH_NA	3_12_2020
Spain/Madrid_H12_1502/2020	EPI_ISL_421172	ESP_Madrid	Age_32	Sex_F	D0_NA	EH_NA	3_9_2020
Spain/Madrid_H12_1804/2021	EPI_ISL_421174	ESP_Madrid	Age_47	Sex_F	D0_NA	EH_NA	3_29_2020
Spain/Madrid_H12_1905/2020	EPI_ISL_421175	ESP_Madrid	Age_25	Sex_F	D0_NA	EH_NA	3_29_2020
Spain/Madrid_R5_8/2020	EPI_ISL_417980	ESP_Madrid	Age_84	Sex_M	D0_NA	EH_NA	3_3_2020
Spain/Madrid201442/2020	EPI_ISL_417010	ESP_Madrid	Age_58	Sex_F	D0_NA	EH_NA	3_4_2020
Spain/Madrid201738/2020	EPI_ISL_419237	ESP_Madrid	Age_95	Sex_M	D0_NA	EH_NA	3_7_2020
Spain/Valencia16/2020	EPI_ISL_419680	ESP_Valencia	Age_49	Sex_F	D0_NA	EH_NA	3_10_2020
Spain/Valencia3/2020	EPI_ISL_414598	ESP_Valencia	Age_89	Sex_M	D0_H	EH_NA	3_5_2020
Spain/Valencia5/2020	EPI_ISL_416484	ESP_Valencia	Age_43	Sex_M	D0_NA	EH_NA	2_27_2020
Spain/Valencia6/2020	EPI_ISL_416485	ESP_Valencia	Age_58	Sex_M	D0_NA	EH_NA	2_27_2020
Spain/VH000001133/2020	EPI_ISL_418860	ESP_Barcelona	Age_74	Sex_M	D0_NA	EH_NA	3_15_2020
Sweden/01/2020	EPI_ISL_411951	Sweden	Age_NA	Sex_NA	D0_NA	EH_NA	2_7_2020
Switzerland/1000477806/2020	EPI_ISL_413024	CHE_Zurich	Age_30	Sex_M	D0_NA	EH_NA	2_29_2020
Switzerland/BL0902/2020	EPI_ISL_414021	CHE_Basel	Age_23	Sex_M	D0_NA	EH_NA	2_27_2020
Switzerland/GR2988/2020	EPI_ISL_415698	CHE	Age_55	Sex_NA	D0_NA	EH_NA	2_27_2020
Switzerland/GR3043/2020	EPI_ISL_415699	CHE	Age_36	Sex_NA	D0_NA	EH_NA	2_27_2020
USA/CA_CDPH_UC4/2020	EPI_ISL_413561	USA_California	Age_NA	Sex_NA	D0_NA	EH_NA	2_27_2020
USA/CruiseA_21/2020	EPI_ISL_414480	USA	Age_NA	Sex_NA	D0_NA	EH_NA	2_21_2020
USA/RI_0520/2020	EPI_ISL_419553	USA_Rhode_Island	Age_48	Sex_M	D0_NA	EH_NA	2_28_2020
USA/RI_0556/2020	EPI_ISL_420795	USA_Rhode_Island	Age_17	Sex_F	D0_NA	EH_NA	3_1_2020
USA/TX1/2020	EPI_ISL_411956	USA_Texas	Age_50	Sex_F	D0_NA	EH_Asia	2_11_2020
USA/VA_DCLS_0021/2020	EPI_ISL_419713	USA_Virginia	Age_NA	Sex_NA	D0_NA	EH_NA	3_11_2020
USA/WA_UW22/2020	EPI_ISL_414591	USA_Washington	Age_NA	Sex_NA	D0_NA	EH_NA	3_6_2020
USA/WA_UW349/2020	EPI_ISL_418916	USA_Illinois	Age_NA	Sex_NA	D0_NA	EH_NA	3_13_2020
USA/WI_02/2020	EPI_ISL_416489	USA_Wisconsin	Age_NA	Sex_NA	D0_NA	EH_NA	3_15_2020
Wales/PHWC_246B9/2020	EPI_ISL_419440	UK_Wales	Age_28	Sex_M	D0_NA	EH_NA	3_17_2020
Wales/PHWC_25551/2020	EPI_ISL_421004	GBR_Wales	Age_73	Sex_M	D0_NA	EH_NA	3_23_2020
Wuhan_Hu_1	MN908947	China_Wuhan	Age_41	Sex_M	DO_D	EH_None	12_26_19

Supplementary Table 4. Nucleotide changes within the Mexican samples compared to the reference strain Wuhan-Hu-1. Sequences were order by their philogenetic position in Figure 2.

	nt change/position in WG nt aln vs MN908947																																																																					
	3	39	241	823	936	1308	1387	1391	2438	2452	2932	2940	3037	5210	5211	6304	6842	6995	8782	9477	10795	11083	12406	14408	14805	14971	16120	16171	17470	17639	17747	17858	18060	18459	18466	18754	18860	19170	19509	19839	20268	21707	23280	23403	23422	23751	24694	25156	25159	25337	25588	25591	25716	25979	26088	26191	26232	27506	27709	28144	28193	28638	28657	28812	28683	28881	28882	28883	29700	29734	29867
MN908947	T	A	C	C	C	A	C	T	G	A	A	C	C	G	C	T	T	A	C	T	T	G	C	C	C	A	G	A	C	C	C	A	C	A	G	C	C	C	G	T	A	C	C	A	C	C	A	C	T	G	A	A	T	G	C	C	T	G	G	T	G	C	C	G	C	G	G	G	A	G	T
7_Mexico/CDMX-INER_04	-	.	T	.	.	.	.	.	.	.	.	T	T	.	.	.	A	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	G	.	.	.	.	.	.	.	.	.	.	.	.	C	.	.	.	.	.	.	.	.	.	.	.	.	.	-
22_Mexico/Puebla-InDRE_05	.	.	T	.	.	G	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.	T	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.	G	.	.	G	.	.	.	.	.	.	.	.	.	.	.	.	.	T	.	.	.	T	.	.	.	.	.	.	G	.	.
2_Mexico/CDMX-INER_01	.	.	T	T	.	.	.	.	.	.	.	.	T	.	.	.	N	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	G	.	.	G	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	C	-
32_Mexico/CDMX-INCMNSZ_05	N	.	T	.	.	.	T	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	G	.	.	G	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	C	.
5_Mexico/CDMX-INER_02	.	.	T	.	.	.	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.	T	T	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	G	.	.	G	.	.	.	T	G	.	.	.	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-
6_Mexico/CDMX-INER_03	N	G	T	.	.	N	.	.	A	G	N	N	T	T	T	C	N	N	.	.	C	.	.	T	.	.	.	G	.	.	.	.	.	G	A	N	G	T	A	.	.	.	.	N	N	.	.	.	.	.	.	.	.	.	.	G	N	N	N	.	.	.	.	N	N	N	N	N	.	.	.
13_Mexico/Chihuahua-IMSS_01	-	-	T	.	.	.	.	N	.	.	T	.	T	.	.	.	N	T	N	N	.	.	.	T	N	N	.	.	.	.	.	.	.	.	.	G	.	.	.	.	.	.	.	G	.	G	.	.	.	.	T	G	N	.	.	.	.	N	.	.	.	.	.	.	.	A	A	C	.	.	.
33_Mexico/CDMX-InDRE_01	.	.	T	.	.	.	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	G	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	A	A	C	.	.	.
16_Mexico/Chiapas-InDRE_02	N	N	T	.	.	.	N	G	.	.	.	.	N	.	.	N	N	N	N	.	.	N	.	N	.	T	A	.	.	.	.	.	.	.	.	N	.	N	.	C	.	.	N	N	.	.	N	.	.	.	N	N	N	.	.	.	.	N	N	N	T	.	.	.	.	A	A	C	.	.	N
27_Mexico/CDMX-INCMNSZ_01	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.	.	T	G	T	.	.	.	.	.	.	.	.	T	.	.	T	.	T	.	.	.	.	.	.	.	.	.	.	.	.	C	.	.	.	.	.	.	.	.	.	.	.
30_Mexico/CDMX-INCMNSZ_03	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.	.	T	G	T	.	.	.	.	.	.	.	.	T	.	.	T	.	T	.	.	.	.	.	.	.	.	.	.	.	.	C	.	.	.	.	.	.	.	.	.	.	.
31_Mexico/CDMX-INCMNSZ_04	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.	.	T	G	T	.	.	.	.	.	.	.	.	T	.	.	T	.	T	.	.	.	.	.	.	.	.	.	.	.	.	C	.	.	.	.	.	.	.	.	.	.	.
8_Mexico/CDMX-INER_05	-	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.	.	T	G	T	.	.	.	.	.	.	.	.	T	.	.	T	.	T	.	.	.	.	.	.	.	.	.	.	.	T	C	.	.	.	.	.	.	.	.	.	.	C
24_Mexico/CDMX-InDRE_06	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.	.	.	.	T	.	.	T	.	.	.	.	.	.	.	.	T	G	T	.	.	.	.	.	.	.	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.	.	.	C	.	.	.	T	.	.	.	.	.	.	.
28_Mexico/CDMX-INCMNSZ_02	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	T	A	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.	T	.	.	.	.	.	C	.	.	T	.	T	.	.	.	.	.	.
19_Mexico/Queretaro-InDRE_04	G	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	T	.	.	.	.	C	.	.	.	.	.	.	.	.	.	.	.
17_Mexico/EdoMex-InDRE_03	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	T	.	.	.	.	C	.	.	.	.	.	.	.	.	.	.	.
Lineage defining mutations [1]			A2	NS	NS												NS					NS	NS	A2a									B1											A2				NS	NS				NS				NS			B				NS							

[1] General lineage defining mutations are shown in blue and orange, as defined in https://nextstrain.org/ncov/global. Unique changes identfiied in Nextstrain are marked as NS.

List of total variant sites of the Mexican samples compared to the reference strain Wuhan-1 (MN908947):

Samples	Variant sites
7_Mexico/CDMX-INER_04	7
22_Mexico/Puebla-InDRE_05	10
2_Mexico/CDMX-INER_01	7
32_Mexico/CDMX-INCMNSZ_05	8
5_Mexico/CDMX-INER_02	9
6_Mexico/CDMX-INER_03	17
13_Mexico/Chihuahua-IMSS_01	13
33_Mexico/CDMX-InDRE_01	7
16_Mexico/Chiapas-InDRE_02	9
27_Mexico/CDMX-INCMNSZ_01	8
30_Mexico/CDMX-INCMNSZ_03	8
31_Mexico/CDMX-INCMNSZ_04	8
8_Mexico/CDMX-INER_05	10
24_Mexico/CDMX-InDRE_06	9
28_Mexico/CDMX-INCMNSZ_02	8
19_Mexico/Queretaro-InDRE_04	4
17_Mexico/EdoMex-InDRE_03	4

Supplementary Table 5. Amino acid changes within the Mexican samples compared to the reference strain Wuhan-Hu-1.

	Genomic region in WG concatenated ORF aln[1], site/aa change compared to MN908947																													
	Orf1a (1-4405)								Orf1b (4406-7000)								S (7001-8282)						Orf3 (8505-8779)			Orf7a (8780-8900)		Orf8 (8901-9021)	N (9022-9440)	
	224	**889**	**892**	**1649**	**2193**	**2244**	**3071**	**3606**	**4619**	**5190**	**5207**	**5696**	**5732**	**5769**	**6068**	**6103**	**7058**	**7582**	**7623**	**7739**	**8208**	**8268**	**8571**	**8700**	**8771**	**8817**	**8885**	**8984**	**9224**	**9225**
MN908947	T	L	P	A	S	I	F	L	P	E	N	S	P	Y	P	A	H	T	D	S	D	D	K	G	P	G	A	L	R	G
7_Mexico/CDMX-INER_04	.	.	L	.	T	.	.	.	L	.	.	.	.	.	.	.	.	.	G	.	.	.	.	.	.	.	.	.	.	.
22_Mexico/Puebla-InDRE_05	.	.	.	.	.	.	.	.	L	.	.	L	.	.	.	.	.	.	G	.	.	.	.	.	.	V	.	.	.	.
2_Mexico/CDMX-INER_01	.	.	.	.	X	.	.	.	L	.	.	.	.	.	.	.	.	.	G	.	.	.	.	.	.	.	.	.	.	.
32_Mexico/CDMX-INCMNSZ_05	.	.	.	.	.	.	.	.	L	.	.	.	.	.	.	.	.	.	G	.	.	Y	.	.	.	.	.	.	.	.
5_Mexico/CDMX-INER_02	.	.	.	.	.	.	.	.	L	.	.	.	.	.	.	.	.	.	G	.	E	.	.	.	.	.	.	.	.	.
6_Mexico/CDMX-INER_03	.	X	X	L	X	X	.	.	L	.	D	.	.	.	X	G	.	.	X	.	.	.	.	.	A	X	X	.	X	X
13_Mexico/Chihuahua-IMSS_01	.	F	.	.	X	F	X	.	L	.	.	.	.	.	A	.	.	.	G	C	.	.	E	.	.	X	.	.	K	R
33_Mexico/CDMX-InDRE_01	.	.	.	.	.	.	.	.	L	.	.	.	.	.	.	.	.	.	G	.	.	.	.	.	.	.	.	.	K	R
16_Mexico/Chiapas-InDRE_02	.	.	.	.	X	X	.	.	X	K	.	.	.	.	X	.	.	X	X	.	.	.	X	.	.	X	X	X	K	R
27_Mexico/CDMX-INCMNSZ_01	.	.	.	.	.	.	.	.	.	.	.	.	L	C	.	.	Y	.	.	.	.	.	.	.	.	.	.	S	.	.
30_Mexico/CDMX-INCMNSZ_03	.	.	.	.	.	.	.	.	.	.	.	.	L	C	.	.	Y	.	.	.	.	.	.	.	.	.	.	S	.	.
31_Mexico/CDMX-INCMNSZ_04	.	.	.	.	.	.	.	.	.	.	.	.	L	C	.	.	Y	.	.	.	.	.	.	.	.	.	.	S	.	.
8_Mexico/CDMX-INER_05	.	.	.	.	.	.	.	.	.	.	.	.	L	C	.	.	Y	.	.	.	.	.	.	.	.	.	S	S	.	.
24_Mexico/CDMX-InDRE_06	I	.	.	.	.	.	.	F	.	.	.	.	L	C	.	.	.	.	.	.	.	.	.	.	.	.	.	S	.	.
28_Mexico/CDMX-INCMNSZ_02	.	.	.	.	.	.	Y	.	.	.	.	.	.	.	.	.	.	I	.	.	.	.	.	V	.	.	.	S	.	.
19_Mexico/Queretaro-InDRE_04	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	S	.	.
17_Mexico/EdoMex-InDRE_03	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	S	.	.
Frequency[3]	T99	L99	P99	A99	S99	I99	F98 Y2	L83 F15	L58 P42	E99	N99	S99	P87 L12	Y86 C13	P99	A99	H99	T99	Y58 D41	S99	D99	D99	K99	G98 V2	P99	G99	A99	L82 S18	R83 K16	G83 R16
Non-conservative amino-acid change[2]	🟥		🟥										🟥				🟥	🟥	🟥	🟥				🟥	🟥		🟥	🟥		🟥
Changes observed [2]	#	▨	*		NS		§	WS NS	WS			†	WS	WS	▨	▨	■	▨	WS	▨	NS	$	▨	§	▨	‡	▨	WS	WS	WS
Lineage defining mutations[2]									**A2a (P314L)**										**A2/G (D614G)**									**B/S (L84S)**		
Evidence for positive selection[4]																			🟩									🟩		

[1] General lineage defining mutations are shown in blue and orange, as defined in https://nextstrain.org/ncov/global and in GISAID preliminary analysis summary update 2020-04-08 1500UTC. No changes observed in M CDS (8283-8504).

[2]

Non-conservative amino-acid changes shown in red

Cluster defining homoplassic mutation of the Mexican sequences are shown in black.

Widespread mutations are indicated under WS. Mutations also in Nexstrain are marked as NS. Unique changes to the Mexican sequences representing singletons are shown in gray.

\# Shared with USA/WA_UW153/2020|EPI_ISL_416691|2020_03_13

* Shared with England/SHEF_C0707/2020|EPI_ISL_420270|2020_03_22

§ Shared with 45 sequences, mostly from Spain.

† Shared with 5 sequences from Australia, Portugal, Spain and USA.

‡ Shared with Portugal/PT0024/2020|EPI_ISL_418009|2020_03_15

$ USA/WA_UW304/2020|EPI_ISL_418872|2020_03_23

[3] Frequency of a given aa in percentage observed in the aln. Only changes present in > 1% of the sequences in the aln are shown.

[4] Sites with a dN/dS >1 are shown in green, as compared to the list of sites determined under diverse dN/dS models described in http://covid19.datamonkey.org/2020/04/01/covid19-analysis/