|   | Unique ID | MMWR Yr;Week | C | D | E | Lineage (GISAID 5/2/22) |
|---|-----------|---------------|---|---|---|-------------------------|
| 1 | CCF-0140  | 2022;11       | 28.29 | 27.74 | EPI_ISL_11378504 | AY.103 |
| 2 | Penn21    | 2022;10       | 24.1 | 23.8 | EPI_ISL_12001578 | AY.3 |
| 3 | CCF-0853  | 2022;10       | 24.78 | 24.63 | EPI_ISL_10942196 | B.1.596 |
| 4 | YNHH-0040 | 2022;10       | 27.8 | 27.4 | EPI_ISL_11503915 | BA.1 |
| 5 | YNHH-0150 | 2022;11       | 22.4 | 22.2 | EPI_ISL_11576371 | BA.1 |
| 6 | YNHH-0273 | 2022;12       | 23.8 | 23.6 | EPI_ISL_11812115 | BA.1 |
| 7 | YNHH-0296 | 2022;12       | 20.5 | 20.5 | EPI_ISL_11812234 | BA.1 |
| 8 | YNHH-0742 | 2022;13       | 22.7 | 22.7 | EPI_ISL_12109200 | BA.1 |
| 9 | MSK 38    | 2022;12       | 18.31 | 17.9 | EPI_ISL_12146396 | BA.1 |
| 10| MSK 35    | 2022;11       | 36.27 | 34.56 | EPI_ISL_12146844 | BA.1 |
| 11| MSK 75    | 2022;14       | 29.35 | 27.75 | EPI_ISL_12148530 | BA.1 |
| 12| CCF-0860  | 2022;10       | 19.23 | 18.82 | EPI_ISL_10942135 | BA.1.1 |
| 13| CCF-0861  | 2022;10       | 22.79 | 22.18 | EPI_ISL_10942136 | BA.1.1 |
| 14| CCF-0862  | 2022;10       | 19.07 | 19.05 | EPI_ISL_10942137 | BA.1.1 |
| 15| CCF-0863  | 2022;10       | 19.1 | 18.82 | EPI_ISL_10942138 | BA.1.1 |
| 16| CCF-0003  | 2022;10       | 20.94 | 21.08 | EPI_ISL_10942173 | BA.1.1 |
| 17| CCF-0855  | 2022;10       | 20.05 | 19.68 | EPI_ISL_10942174 | BA.1.1 |
| 18| CCF-0857  | 2022;10       | 19.45 | 19.54 | EPI_ISL_10942175 | BA.1.1 |
| 19| CCF-0019  | 2022;10       | 23.03 | 23.16 | EPI_ISL_11169944 | BA.1.1 |
| 20| CCF-0020  | 2022;10       | 21.26 | 21.42 | EPI_ISL_11169945 | BA.1.1 |
| 21| CCF-0023  | 2022;10       | 21.32 | 21.35 | EPI_ISL_11169946 | BA.1.1 |
| 22| CCF-0024  | 2022;10       | 18.21 | 18.37 | EPI_ISL_11169947 | BA.1.1 |
| 23| CCF-0025  | 2022;10       | 19.77 | 19.55 | EPI_ISL_11169948 | BA.1.1 |
| 24| CCF-0030  | 2022;10       | 19.79 | 19.89 | EPI_ISL_11169949 | BA.1.1 |
| 25| CCF-0037  | 2022;10       | 22.64 | 23.33 | EPI_ISL_11169950 | BA.1.1 |
| 26| CCF-0044  | 2022;10       | 23.33 | 23.43 | EPI_ISL_11169951 | BA.1.1 |
| 27| CCF-0043  | 2022;10       | 19.66 | 20.16 | EPI_ISL_11169952 | BA.1.1 |
| 28| CCF-0051  | 2022;10       | 19.63 | 19.39 | EPI_ISL_11169953 | BA.1.1 |
| 29| CCF-0053  | 2022;10       | 18.9 | 19.61 | EPI_ISL_11169954 | BA.1.1 |
| 30| CCF-0054  | 2022;10       | 17.54 | 17.41 | EPI_ISL_11169955 | BA.1.1 |
| 31| CCF-0057  | 2022;10       | 20.42 | 20.38 | EPI_ISL_11169956 | BA.1.1 |
| 32| CCF-0062  | 2022;10       | 19.65 | 19.71 | EPI_ISL_11169957 | BA.1.1 |
| 33| CCF-0063  | 2022;10       | 17.01 | 17.4 | EPI_ISL_11169958 | BA.1.1 |
| 34| CCF-0066  | 2022;11       | 24.74 | 25.09 | EPI_ISL_11169959 | BA.1.1 |
| 35| CCF-0068  | 2022;11       | 24.15 | 24.09 | EPI_ISL_11169960 | BA.1.1 |
| 36| CCF-0070  | 2022;11       | 18.12 | 18.25 | EPI_ISL_11169961 | BA.1.1 |
| 37| CCF-0071  | 2022;11       | 22.71 | 22.91 | EPI_ISL_11169962 | BA.1.1 |
| 38| CCF-0845  | 2022;10       | 19.41 | 19.12 | EPI_ISL_11169976 | BA.1.1 |
| 39| CCF-0846  | 2022;10       | 18.95 | 18.44 | EPI_ISL_11169977 | BA.1.1 |
| 40| CCF-0839  | 2022;10       | 23.95 | 23.37 | EPI_ISL_11169978 | BA.1.1 |
| 41| CCF-0833  | 2022;10       | 23.81 | 23.35 | EPI_ISL_11169979 | BA.1.1 |
| 42| CCF-0830  | 2022;10       | 20.69 | 20.51 | EPI_ISL_11169980 | BA.1.1 |
| 43| CCF-0828  | 2022;10       | 22.99 | 22.55 | EPI_ISL_11169981 | BA.1.1 |
|   |   |   |   |   |   |
|---|---|---|---|---|---|
| A | B     | C  | D  | E                  | F  |
| 45| CCF-0827 | 2022;10 | 20.21 | 20.01 | EPI_ISL_11169982 | BA.1.1 |
| 46| CCF-0824 | 2022;11 | 23.67 | 23.26 | EPI_ISL_11169983 | BA.1.1 |
| 47| CCF-0065 | 2022;10 | 21.62 | 21.92 | EPI_ISL_11169985 | BA.1.1 |
| 48| CCF-0034 | 2022;10 | 24.19 | 24.09 | EPI_ISL_11169988 | BA.1.1 |
| 49| CCF-0064 | 2022;10 | 17.92 | 18.12 | EPI_ISL_11169991 | BA.1.1 |
| 50| CCF-0141 | 2022;11 | 21.39 | 21.45 | EPI_ISL_11378466 | BA.1.1 |
| 51| CCF-0819 | 2022;11 | 17.95 | 17.81 | EPI_ISL_11378467 | BA.1.1 |
| 52| CCF-0126 | 2022;11 | 20.35 | 20.49 | EPI_ISL_11378471 | BA.1.1 |
| 53| CCF-0114 | 2022;11 | 16.17 | 16.22 | EPI_ISL_11378474 | BA.1.1 |
| 54| CCF-0117 | 2022;11 | 19.57 | 19.72 | EPI_ISL_11378475 | BA.1.1 |
| 55| CCF-0111 | 2022;11 | 19.7  | 20.56 | EPI_ISL_11378477 | BA.1.1 |
| 56| CCF-0107 | 2022;11 | 21.17 | 21.64 | EPI_ISL_11378478 | BA.1.1 |
| 57| CCF-0099 | 2022;11 | 19.93 | 20.47 | EPI_ISL_11378481 | BA.1.1 |
| 58| CCF-0095 | 2022;11 | 23.97 | 24.09 | EPI_ISL_11378482 | BA.1.1 |
| 59| CCF-0090 | 2022;11 | 19.66 | 19.54 | EPI_ISL_11378484 | BA.1.1 |
| 60| CCF-0081 | 2022;11 | 19.54 | 19.54 | EPI_ISL_11378485 | BA.1.1 |
| 61| CCF-0085 | 2022;11 | 20.45 | 20.28 | EPI_ISL_11378488 | BA.1.1 |
| 62| CCF-0079 | 2022;12 | 20.39 | 21.33 | EPI_ISL_11378489 | BA.1.1 |
| 63| CCF-0800 | 2022;11 | 19.03 | 18.41 | EPI_ISL_11378490 | BA.1.1 |
| 64| CCF-0803 | 2022;11 | 21.18 | 21.02 | EPI_ISL_11378491 | BA.1.1 |
| 65| CCF-0807 | 2022;11 | 21.92 | 21.61 | EPI_ISL_11378492 | BA.1.1 |
| 66| CCF-0812 | 2022;11 | 24.66 | 24.21 | EPI_ISL_11378495 | BA.1.1 |
| 67| CCF-0104 | 2022;11 | 19.83 | 19.92 | EPI_ISL_11378499 | BA.1.1 |
| 68| YNHH-0035 | 2022;10 | 18.3  | 18.1  | EPI_ISL_11503891 | BA.1.1 |
| 69| YNHH-0034 | 2022;10 | 21.4  | 21.1  | EPI_ISL_11503899 | BA.1.1 |
| 70| YNHH-0055 | 2022;10 | 24    | 24.4  | EPI_ISL_11576285 | BA.1.1 |
| 71| YNHH-0077 | 2022;10 | 21.1  | 20.9  | EPI_ISL_11576302 | BA.1.1 |
| 72| YNHH-0076 | 2022;10 | 28.1  | 28    | EPI_ISL_11576304 | BA.1.1 |
| 73| YNHH-0070 | 2022;10 | 25    | 24.7  | EPI_ISL_11576305 | BA.1.1 |
| 74| YNHH-0122 | 2022;11 | 24.5  | 24.2  | EPI_ISL_11576322 | BA.1.1 |
| 75| YNHH-0111 | 2022;11 | 22.3  | 21.7  | EPI_ISL_11576329 | BA.1.1 |
| 76| YNHH-0106 | 2022;10 | 20.5  | 20.2  | EPI_ISL_11576337 | BA.1.1 |
| 77| YNHH-0084 | 2022;10 | 19    | 18.8  | EPI_ISL_11576343 | BA.1.1 |
| 78| YNHH-0125 | 2022;11 | 30.6  | 30.1  | EPI_ISL_11576345 | BA.1.1 |
| 79| YNHH-0079 | 2022;10 | 20.2  | 19.8  | EPI_ISL_11576347 | BA.1.1 |
| 80| YNHH-0087 | 2022;10 | 22.2  | 21.8  | EPI_ISL_11576349 | BA.1.1 |
| 81| YNHH-0099 | 2022;10 | 21.8  | 21.5  | EPI_ISL_11576352 | BA.1.1 |
| 82| YNHH-0128 | 2022;11 | 30.3  | 29.3  | EPI_ISL_11576353 | BA.1.1 |
| 83| YNHH-0105 | 2022;10 | 20.3  | 20    | EPI_ISL_11576355 | BA.1.1 |
| 84| YNHH-0083 | 2022;10 | 29.3  | 28.9  | EPI_ISL_11576361 | BA.1.1 |
| 85| YNHH-0086 | 2022;10 | 30.7  | 30.1  | EPI_ISL_11576362 | BA.1.1 |
| 86| YNHH-0152 | 2022;11 | 23.8  | 23.4  | EPI_ISL_11576363 | BA.1.1 |
| 87| YNHH-0112 | 2022;11 | 23.1  | 22.8  | EPI_ISL_11576365 | BA.1.1 |
| 88| YNHH-0130 | 2022;11 | 28.2  | 27.8  | EPI_ISL_11576367 | BA.1.1 |
|   |   |   |   |   |   |
|---|---|---|---|---|---|
| A | B | C  | D  | E                          | F       |
| 89 | YNHH-0143 | 2022;11 | 23.9 | 23.1 EPI_ISL_11576376 | BA.1.1 |
| 90 | YNHH-0132 | 2022;11 | 19.3 | 18.9 EPI_ISL_11576377 | BA.1.1 |
| 91 | YNHH-0154 | 2022;11 | 25.1 | 24.5 EPI_ISL_11576389 | BA.1.1 |
| 92 | YNHH-0163 | 2022;11 | 21.5 | 21.4 EPI_ISL_11576390 | BA.1.1 |
| 93 | YNHH-0165 | 2022;11 | 22.8 | 22.6 EPI_ISL_11576392 | BA.1.1 |
| 94 | YNHH-0158 | 2022;11 | 20.4 | 20.1 EPI_ISL_11576395 | BA.1.1 |
| 95 | YNHH-0157 | 2022;11 | 19.6 | 19.4 EPI_ISL_11576407 | BA.1.1 |
| 96 | YNHH-0140 | 2022;11 | 23.6 | 23.4 EPI_ISL_11576411 | BA.1.1 |
| 97 | YNHH-0168 | 2022;11 | 18.8 | 18.8 EPI_ISL_11576416 | BA.1.1 |
| 98 | YNHH-0169 | 2022;11 | 22.2 | 21.9 EPI_ISL_11576417 | BA.1.1 |
| 99 | Columbia 54 | 2022;12 | 21.3 | 21.3 EPI_ISL_11680561 | BA.1.1 |
| 100 | CCF-0143 | 2022;12 | 21.9 | 22.11 EPI_ISL_11695352 | BA.1.1 |
| 101 | CCF-0149 | 2022;12 | 20.13 | 20.34 EPI_ISL_11695353 | BA.1.1 |
| 102 | CCF-0166 | 2022;12 | 24.06 | 24.17 EPI_ISL_11695356 | BA.1.1 |
| 103 | CCF-0188 | 2022;12 | 18.45 | 18.3 EPI_ISL_11695359 | BA.1.1 |
| 104 | CCF-0189 | 2022;12 | 20.48 | 20.23 EPI_ISL_11695360 | BA.1.1 |
| 105 | CCF-0191 | 2022;12 | 18.57 | 18.48 EPI_ISL_11695361 | BA.1.1 |
| 106 | CCF-0202 | 2022;13 | 21.53 | 21.44 EPI_ISL_11695363 | BA.1.1 |
| 107 | CCF-0783 | 2022;12 | 18 | 17.71 EPI_ISL_11695364 | BA.1.1 |
| 108 | CCF-0774 | 2022;12 | 17.95 | 18.03 EPI_ISL_11695367 | BA.1.1 |
| 109 | CCF-0773 | 2022;12 | 19.97 | 19.67 EPI_ISL_11695368 | BA.1.1 |
| 110 | CCF-0767 | 2022;12 | 23.46 | 22.62 EPI_ISL_11695369 | BA.1.1 |
| 111 | CCF-0768 | 2022;12 | 20.22 | 19.83 EPI_ISL_11695370 | BA.1.1 |
| 112 | CCF-0205 | 2022;13 | 21.97 | 22.22 EPI_ISL_11695377 | BA.1.1 |
| 113 | CCF-0179 | 2022;12 | 20.83 | 20.66 EPI_ISL_11695380 | BA.1.1 |
| 114 | YNHH-0200 | 2022;11 | 21.2 | 20.7 EPI_ISL_11812209 | BA.1.1 |
| 115 | YNHH-0202 | 2022;11 | 29.8 | 29.4 EPI_ISL_11812212 | BA.1.1 |
| 116 | YNHH-0266 | 2022;12 | 18 | 17.6 EPI_ISL_11812217 | BA.1.1 |
| 117 | YNHH-0263 | 2022;11 | 19.4 | 19.2 EPI_ISL_11812219 | BA.1.1 |
| 118 | YNHH-0238 | 2022;11 | 26.7 | 26.1 EPI_ISL_11812222 | BA.1.1 |
| 119 | YNHH-0256 | 2022;11 | 20.5 | 20.5 EPI_ISL_11812223 | BA.1.1 |
| 120 | YNHH-0236 | 2022;11 | 20.3 | 20.1 EPI_ISL_11812224 | BA.1.1 |
| 121 | YNHH-0239 | 2022;11 | 18.4 | 18.5 EPI_ISL_11812225 | BA.1.1 |
| 122 | YNHH-0260 | 2022;11 | 23.4 | 22.9 EPI_ISL_11812226 | BA.1.1 |
| 123 | YNHH-0308 | 2022;12 | 21.4 | 20.8 EPI_ISL_11812227 | BA.1.1 |
| 124 | YNHH-0314 | 2022;12 | 23.2 | 22.8 EPI_ISL_11812228 | BA.1.1 |
| 125 | YNHH-0220 | 2022;11 | 19.8 | 19.6 EPI_ISL_11812229 | BA.1.1 |
| 126 | YNHH-0186 | 2022;11 | 20.6 | 20.2 EPI_ISL_11812231 | BA.1.1 |
| 127 | YNHH-0181 | 2022;11 | 25.9 | 25.7 EPI_ISL_11812232 | BA.1.1 |
| 128 | YNHH-0339 | 2022;12 | 18.6 | 18.6 EPI_ISL_11812235 | BA.1.1 |
| 129 | YNHH-0276 | 2022;12 | 21.9 | 21.4 EPI_ISL_11812236 | BA.1.1 |
| 130 | YNHH-0310 | 2022;12 | 31.8 | 26 EPI_ISL_11812237 | BA.1.1 |
| 131 | YNHH-0208 | 2022;11 | 26.8 | 26.5 EPI_ISL_11812245 | BA.1.1 |
| 132 | YNHH-0278 | 2022;12 | 27.5 | 27.2 EPI_ISL_11812264 | BA.1.1 |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| A | B  | C  | D  | E     | F     |
|---|----|----|----|------|------|
| 133 | YNHH-0275  | 2022;12 | 27.1 | 26.7 | EPI_ISL_11812269 | BA.1.1 |
| 134 | YNHH-0326  | 2022;12 | 29.5 | 29   | EPI_ISL_11812270 | BA.1.1 |
| 135 | YNHH-0303  | 2022;12 | 29.2 | 28.5 | EPI_ISL_11812278 | BA.1.1 |
| 136 | YNHH-0269  | 2022;12 | 27.7 | 27.1 | EPI_ISL_11812279 | BA.1.1 |
| 137 | YNHH-0285  | 2022;12 | 29.9 | 29.2 | EPI_ISL_11812284 | BA.1.1 |
| 138 | YNHH-0234  | 2022;11 | 29.1 | 28.6 | EPI_ISL_11812289 | BA.1.1 |
| 139 | YNHH-0175  | 2022;11 | 24.7 | 24.3 | EPI_ISL_11812291 | BA.1.1 |
| 140 | CCF-0771   | 2022;12 | 16.05 | 15.58 | EPI_ISL_11889732 | BA.1.1 |
| 141 | CCF-0230   | 2022;13 | 18.69 | 18.77 | EPI_ISL_11889736 | BA.1.1 |
| 142 | CCF-0727   | 2022;13 | 24.24 | 24.04 | EPI_ISL_11889739 | BA.1.1 |
| 143 | CCF-0732   | 2022;13 | 19.48 | 19.57 | EPI_ISL_11889740 | BA.1.1 |
| 144 | CCF-0742   | 2022;13 | 19.04 | 18.75 | EPI_ISL_11889741 | BA.1.1 |
| 145 | CCF-0745   | 2022;13 | 23.94 | 23.56 | EPI_ISL_11889742 | BA.1.1 |
| 146 | Penn1      | 2022;10 | 24.3 | 23.8 | EPI_ISL_12001561 | BA.1.1 |
| 147 | Penn4      | 2022;10 | 27.2 | 26.9 | EPI_ISL_12001563 | BA.1.1 |
| 148 | Penn5      | 2022;10 | 26.2 | 25.9 | EPI_ISL_12001564 | BA.1.1 |
| 149 | Penn8      | 2022;10 | 20.3 | 20   | EPI_ISL_12001565 | BA.1.1 |
| 150 | Penn9      | 2022;10 | 18.6 | 18.3 | EPI_ISL_12001566 | BA.1.1 |
| 151 | Penn12     | 2022;10 | 25.3 | 25   | EPI_ISL_12001568 | BA.1.1 |
| 152 | Penn18     | 2022;10 | 21   | 21.2 | EPI_ISL_12001575 | BA.1.1 |
| 153 | Penn20     | 2022;10 | 20.3 | 20   | EPI_ISL_12001576 | BA.1.1 |
| 154 | Penn31     | 2022;10 | 25.3 | 25.5 | EPI_ISL_12001583 | BA.1.1 |
| 155 | Penn38     | 2022;11 | 21.8 | 21.4 | EPI_ISL_12001592 | BA.1.1 |
| 156 | Penn39     | 2022;11 | 26.3 | 26   | EPI_ISL_12001606 | BA.1.1 |
| 157 | Penn47     | 2022;11 | 23.1 | 23.2 | EPI_ISL_12001637 | BA.1.1 |
| 158 | Penn51     | 2022;11 | 19.8 | 20   | EPI_ISL_12001646 | BA.1.1 |
| 159 | Penn57     | 2022;11 | 22.4 | 22.2 | EPI_ISL_12001654 | BA.1.1 |
| 160 | Penn63     | 2022;11 | 20.8 | 20.3 | EPI_ISL_12001657 | BA.1.1 |
| 161 | Penn70     | 2022;12 | 21.5 | 22   | EPI_ISL_12001661 | BA.1.1 |
| 162 | Penn85     | 2022;12 | 22.9 | 23   | EPI_ISL_12001695 | BA.1.1 |
| 163 | YNHH-0346  | 2022;12 | 28.9 | 28.6 | EPI_ISL_12006439 | BA.1.1 |
| 164 | YNHH-0380  | 2022;12 | 25.5 | 25.4 | EPI_ISL_12006450 | BA.1.1 |
| 165 | YNHH-0347  | 2022;12 | 23   | 22.8 | EPI_ISL_12006454 | BA.1.1 |
| 166 | YNHH-0443  | 2022;13 | 26.6 | 26.4 | EPI_ISL_12006458 | BA.1.1 |
| 167 | YNHH-0404  | 2022;12 | 22.6 | 22   | EPI_ISL_12006465 | BA.1.1 |
| 168 | YNHH-0440  | 2022;13 | 26.8 | 26.6 | EPI_ISL_12006466 | BA.1.1 |
| 169 | YNHH-0377  | 2022;12 | 30.2 | 29.8 | EPI_ISL_12006474 | BA.1.1 |
| 170 | YNHH-0442  | 2022;13 | 27.2 | 27.2 | EPI_ISL_12006476 | BA.1.1 |
| 171 | YNHH-0361  | 2022;12 | 28.5 | 28.4 | EPI_ISL_12006478 | BA.1.1 |
| 172 | YNHH-0450  | 2022;13 | 25.7 | 25.5 | EPI_ISL_12006484 | BA.1.1 |
| 173 | YNHH-0452  | 2022;13 | 20.3 | 19.9 | EPI_ISL_12006491 | BA.1.1 |
| 174 | YNHH-0447  | 2022;13 | 19   | 18.8 | EPI_ISL_12006505 | BA.1.1 |
| 175 | YNHH-0439  | 2022;13 | 26   | 25.6 | EPI_ISL_12006507 | BA.1.1 |
| 176 | YNHH-0457  | 2022;13 | 19   | 18.5 | EPI_ISL_12006513 | BA.1.1 |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| A |   | B | C  | D  | E             | F             |
|---|---|---|---|---|---------------|---------------|
| 177 | YNHH-0403 | 2022;12 | 26.6 | 25.9 | EPI_ISL_12006514 | BA.1.1         |
| 178 | YNHH-0446 | 2022;13 | 29.8 | 29.2 | EPI_ISL_12006515 | BA.1.1         |
| 179 | YNHH-0428 | 2022;12 | 21.2 | 21.1 | EPI_ISL_12006521 | BA.1.1         |
| 180 | YNHH-0371 | 2022;12 | 18.8 | 18.5 | EPI_ISL_12006524 | BA.1.1         |
| 181 | YNHH-0362 | 2022;12 | 30.5 | 30.3 | EPI_ISL_12006528 | BA.1.1         |
| 182 | YNHH-0429 | 2022;12 | 29.6 | 29.1 | EPI_ISL_12006529 | BA.1.1         |
| 183 | YNHH-0378 | 2022;12 | 22.8 | 22.4 | EPI_ISL_12006531 | BA.1.1         |
| 184 | YNHH-0379 | 2022;12 | 22.7 | 22.6 | EPI_ISL_12006538 | BA.1.1         |
| 185 | YNHH-0468 | 2022;13 | 29.1 | 28.6 | EPI_ISL_12006565 | BA.1.1         |
| 186 | YNHH-0399 | 2022;12 | 29.1 | 28.6 | EPI_ISL_12006585 | BA.1.1         |
| 187 | YNHH-0391 | 2022;12 | 22.8 | 22.6 | EPI_ISL_12006586 | BA.1.1         |
| 188 | YNHH-0519 | 2022;13 | 29  | 28.6 | EPI_ISL_12006588 | BA.1.1         |
| 189 | YNHH-0383 | 2022;12 | 27.4 | 27.1 | EPI_ISL_12006600 | BA.1.1         |
| 190 | YNHH-0471 | 2022;13 | 23.2 | 22.6 | EPI_ISL_12006602 | BA.1.1         |
| 191 | YNHH-0493 | 2022;13 | 22.8 | 22.3 | EPI_ISL_12006609 | BA.1.1         |
| 192 | YNHH-0472 | 2022;13 | 30.8 | 30.2 | EPI_ISL_12006618 | BA.1.1         |
| 193 | YNHH-0611 | 2022;13 | 25.6 | 25.2 | EPI_ISL_12109120 | BA.1.1         |
| 194 | YNHH-0593 | 2022;13 | 25.2 | 24.9 | EPI_ISL_12109126 | BA.1.1         |
| 195 | YNHH-0649 | 2022;13 | 24.4 | 24.3 | EPI_ISL_12109127 | BA.1.1         |
| 196 | YNHH-0681 | 2022;13 | 26  | 25.9 | EPI_ISL_12109172 | BA.1.1         |
| 197 | YNHH-0776 | 2022;14 | 24.7 | 24.4 | EPI_ISL_12109189 | BA.1.1         |
| 198 | YNHH-0687 | 2022;13 | 28  | 27.7 | EPI_ISL_12109193 | BA.1.1         |
| 199 | YNHH-0542 | 2022;13 | 30.8 | 29.9 | EPI_ISL_12109227 | BA.1.1         |
| 200 | YNHH-0671 | 2022;13 | 27.5 | 27.2 | EPI_ISL_12109239 | BA.1.1         |
| 201 | YNHH-0651 | 2022;13 | 24.8 | 24.5 | EPI_ISL_12109266 | BA.1.1         |
| 202 | YNHH-0662 | 2022;13 | 22.9 | 22.4 | EPI_ISL_12109280 | BA.1.1         |
| 203 | MSK 37    | 2022;11 | 24.01| 23.32| EPI_ISL_12145500| BA.1.1         |
| 204 | MSK 31    | 2022;11 | 30.27| 29.37| EPI_ISL_12146381| BA.1.1         |
| 205 | MSK 30    | 2022;11 | 29.01| 28.32| EPI_ISL_12146382| BA.1.1         |
| 206 | MSK 29    | 2022;11 | 30.71| 29.74| EPI_ISL_12146385| BA.1.1         |
| 207 | MSK 32    | 2022;11 | 29.88| 28.46| EPI_ISL_12146578| BA.1.1         |
| 208 | MSK 28    | 2022;10 | 24.48| 23.89| EPI_ISL_12146881| BA.1.1         |
| 209 | MSK 60    | 2022;14 | 22.09| 21.84| EPI_ISL_12148445| BA.1.1         |
| 210 | MSK 64    | 2022;14 | 31.66| 30.5 | EPI_ISL_12148473| BA.1.1         |
| 211 | MSK 65    | 2022;14 | 30.59| 26.69| EPI_ISL_12148491| BA.1.1         |
| 212 | MSK 66    | 2022;14 | 19.56| 19.14| EPI_ISL_12148504| BA.1.1         |
| 213 | MSK 69    | 2022;14 | 27.16| 26.67| EPI_ISL_12148507| BA.1.1         |
| 214 | Columbia 185| 2022;15| 28.1 | 27.6 | EPI_ISL_12191775| BA.1.1         |
| 215 | YNHH-0381 | 2022;12 | 28.9 | 28.2 | EPI_ISL_12006592| BA.1.1         |
| 216 | YNHH-0876 | 2022;14 | 21.9 | 21.7 | EPI_ISL_12109274| BA.1.1         |
| 217 | MSK 23    | 2022;10 | 25.78| 25.06| EPI_ISL_12150690| BA.1.1         |
| 218 | YNHH-0700 | 2022;13 | 20.6 | 20.2 | EPI_ISL_12109211| BA.1.1        |
| 219 | MSK 24    | 2022;10 | 32.24| 31.43| EPI_ISL_12150691| BA.1.1         |
| 220 | CCF-0004  | 2022;10 | 18.19| 18.36| EPI_ISL_10942121| BA.1.1         |
|   | A          | B          | C   | D   | E            | F       |
|---|------------|------------|-----|-----|--------------|---------|
| 221| YNHH-0116  | 2022;11    | 19.1| 18.5| EPI_ISL_11576338 | BA.1.15 |
| 222| YNHH-0115  | 2022;11    | 29.3| 28.6| EPI_ISL_11576340 | BA.1.15 |
| 223| CCF-0150   | 2022;12    | 16.09| 16.08| EPI_ISL_11695378 | BA.1.15 |
| 224| CCF-0776   | 2022;12    | 23.23| 22.68| EPI_ISL_11695381 | BA.1.15 |
| 225| YNHH-0247  | 2022;11    | 24.9| 24.1| EPI_ISL_11812220 | BA.1.15 |
| 226| YNHH-0001  | 2022;11    | 23.4| 23.1| EPI_ISL_11812221 | BA.1.15 |
| 227| Penn2      | 2022;10    | 23  | 22.6| EPI_ISL_12001562 | BA.1.15 |
| 228| Penn23     | 2022;10    | 22.1| 21.8| EPI_ISL_12001581 | BA.1.15 |
| 229| MSK 27     | 2022;10    | 30.26| 29.54| EPI_ISL_12146864 | BA.1.15 |
| 230| CCF-0763   | 2022;12    | 23.7| 23.26| EPI_ISL_11695382 | BA.1.15 |
| 231| YNHH-0237  | 2022;11    | 21.1| 21.1| EPI_ISL_11812216 | BA.1.15 |
| 232| YNHH-0284  | 2022;12    | 23.3| 22.6| EPI_ISL_11812116 | BA.1.17 |
| 233| YNHH-0484  | 2022;13    | 24.7| 24.4| EPI_ISL_12006589 | BA.1.18 |
| 234| YNHH-0207  | 2022;11    | 23.1| 23.2| EPI_ISL_11812238 | BA.1.2  |
| 235| CCF-0091   | 2022;11    | 24.74| 24.65| EPI_ISL_11378501 | BA.1.20 |
| 236| CCF-0031   | 2022;10    | 20.46| 20.63| EPI_ISL_11169930 | BA.2    |
| 237| CCF-0118   | 2022;11    | 23.91| 23.86| EPI_ISL_11378434 | BA.2    |
| 238| CCF-0102   | 2022;11    | 15.62| 15.97| EPI_ISL_11378438 | BA.2    |
| 239| CCF-0797   | 2022;12    | 19.69| 19.63| EPI_ISL_11378443 | BA.2    |
| 240| CCF-0805   | 2022;11    | 19.77| 19.42| EPI_ISL_11378445 | BA.2    |
| 241| CCF-0813   | 2022;11    | 21.2 | 20.94| EPI_ISL_11378447 | BA.2    |
| 242| CCF-0814   | 2022;11    | 16.59| 16.37| EPI_ISL_11378448 | BA.2    |
| 243| YNHH-0033  | 2022;10    | 23.4 | 23.1 | EPI_ISL_11503890 | BA.2    |
| 244| YNHH-0031  | 2022;10    | 31  | 30.4 | EPI_ISL_11503914 | BA.2    |
| 245| YNHH-0056  | 2022;10    | 20.5 | 20.3 | EPI_ISL_11576284 | BA.2    |
| 246| YNHH-0061  | 2022;10    | 20.9 | 20.6 | EPI_ISL_11576286 | BA.2    |
| 247| YNHH-0060  | 2022;10    | 18.6 | 18.7 | EPI_ISL_11576287 | BA.2    |
| 248| YNHH-0043  | 2022;10    | 29.3 | 28.9 | EPI_ISL_11576288 | BA.2    |
| 249| YNHH-0059  | 2022;10    | 19.8 | 19.6 | EPI_ISL_11576290 | BA.2    |
| 250| YNHH-0069  | 2022;10    | 20.4 | 20.3 | EPI_ISL_11576303 | BA.2    |
| 251| YNHH-0089  | 2022;10    | 18.6 | 18.4 | EPI_ISL_11576317 | BA.2    |
| 252| YNHH-0114  | 2022;11    | 26.2 | 25.6 | EPI_ISL_11576318 | BA.2    |
| 253| YNHH-0090  | 2022;10    | 17.9 | 17.5 | EPI_ISL_11576320 | BA.2    |
| 254| YNHH-0095  | 2022;10    | 23.9 | 23.9 | EPI_ISL_11576321 | BA.2    |
| 255| YNHH-0110  | 2022;10    | 20.4 | 20.4 | EPI_ISL_11576324 | BA.2    |
| 256| YNHH-0098  | 2022;10    | 21.8 | 21.5 | EPI_ISL_11576327 | BA.2    |
| 257| YNHH-0121  | 2022;11    | 20  | 19.6 | EPI_ISL_11576331 | BA.2    |
| 258| YNHH-0085  | 2022;10    | 21.6 | 21.4 | EPI_ISL_11576344 | BA.2    |
| 259| YNHH-0096  | 2022;10    | 28.2 | 27.8 | EPI_ISL_11576350 | BA.2    |
| 260| YNHH-0072  | 2022;10    | 29.6 | 29.1 | EPI_ISL_11576357 | BA.2    |
| 261| YNHH-0100  | 2022;10    | 20.8 | 20.2 | EPI_ISL_11576358 | BA.2    |
| 262| YNHH-0097  | 2022;10    | 18.8 | 18.5 | EPI_ISL_11576359 | BA.2    |
| 263| YNHH-0109  | 2022;10    | 27.9 | 27.5 | EPI_ISL_11576360 | BA.2    |
| 264| YNHH-0133  | 2022;11    | 22.5 | 21.9 | EPI_ISL_11576364 | BA.2    |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

| A   | B           | C  | D  | E                     | F  |
|-----|-------------|----|----|-----------------------|----|
| 265 | YNHH-0137   | 2022;11 | 19.8 | 19.6 EPI_ISL_11576366 | BA.2 |
| 266 | YNHH-0135   | 2022;11 | 20.5 | 20.6 EPI_ISL_11576368 | BA.2 |
| 267 | YNHH-0129   | 2022;11 | 20.9 | 20.5 EPI_ISL_11576374 | BA.2 |
| 268 | YNHH-0131   | 2022;11 | 19.5 | 19.2 EPI_ISL_11576375 | BA.2 |
| 269 | YNHH-0160   | 2022;11 | 21.8 | 21.6 EPI_ISL_11576388 | BA.2 |
| 270 | YNHH-0145   | 2022;11 | 20.7 | 20.4 EPI_ISL_11576396 | BA.2 |
| 271 | YNHH-0166   | 2022;11 | 27.8 | 27.3 EPI_ISL_11576397 | BA.2 |
| 272 | YNHH-0170   | 2022;11 | 31.4 | 30.3 EPI_ISL_11576399 | BA.2 |
| 273 | YNHH-0173   | 2022;11 | 24.8 | 24.6 EPI_ISL_11576405 | BA.2 |
| 274 | YNHH-0146   | 2022;11 | 24.2 | 24.1 EPI_ISL_11576409 | BA.2 |
| 275 | CCF-0145    | 2022;12 | 22.31 | 22.22 EPI_ISL_11695306 | BA.2 |
| 276 | CCF-0148    | 2022;12 | 19.65 | 19.37 EPI_ISL_11695309 | BA.2 |
| 277 | CCF-0199    | 2022;13 | 22.65 | 22.61 EPI_ISL_11695329 | BA.2 |
| 278 | CCF-0203    | 2022;13 | 19.69 | 19.78 EPI_ISL_11695330 | BA.2 |
| 279 | CCF-0775    | 2022;12 | 21.41 | 21.03 EPI_ISL_11695335 | BA.2 |
| 280 | CCF-0766    | 2022;12 | 15.65 | 15.37 EPI_ISL_11695337 | BA.2 |
| 281 | CCF-0760    | 2022;13 | 23.65 | 23.46 EPI_ISL_11695338 | BA.2 |
| 282 | YNHH-0264   | 2022;12 | 15.6 | 15.3 EPI_ISL_11812120 | BA.2 |
| 283 | YNHH-0244   | 2022;11 | 23.8 | 23.3 EPI_ISL_11812126 | BA.2 |
| 284 | YNHH-0188   | 2022;11 | 24.6 | 24.7 EPI_ISL_11812129 | BA.2 |
| 285 | YNHH-0189   | 2022;11 | 25.6 | 25.2 EPI_ISL_11812132 | BA.2 |
| 286 | YNHH-0232   | 2022;11 | 26.4 | 25.8 EPI_ISL_11812133 | BA.2 |
| 287 | YNHH-0253   | 2022;11 | 25.8 | 25.3 EPI_ISL_11812138 | BA.2 |
| 288 | YNHH-0231   | 2022;11 | 21.8 | 21.3 EPI_ISL_11812143 | BA.2 |
| 289 | YNHH-0265   | 2022;12 | 25.5 | 25 EPI_ISL_11812145 | BA.2 |
| 290 | YNHH-0274   | 2022;12 | 18.3 | 18 EPI_ISL_11812157 | BA.2 |
| 291 | YNHH-0254   | 2022;11 | 21.3 | 20.9 EPI_ISL_11812158 | BA.2 |
| 292 | YNHH-0297   | 2022;12 | 20.8 | 20.4 EPI_ISL_11812160 | BA.2 |
| 293 | YNHH-0252   | 2022;11 | 19.9 | 19.4 EPI_ISL_11812161 | BA.2 |
| 294 | YNHH-0320   | 2022;12 | 21.1 | 20.8 EPI_ISL_11812164 | BA.2 |
| 295 | YNHH-0270   | 2022;12 | 17.7 | 17.3 EPI_ISL_11812166 | BA.2 |
| 296 | YNHH-0219   | 2022;11 | 22.7 | 22.4 EPI_ISL_11812173 | BA.2 |
| 297 | YNHH-0182   | 2022;11 | 18.3 | 18 EPI_ISL_11812180 | BA.2 |
| 298 | YNHH-0288   | 2022;12 | 24.2 | 23.9 EPI_ISL_11812181 | BA.2 |
| 299 | YNHH-0290   | 2022;12 | 24.2 | 23.9 EPI_ISL_11812182 | BA.2 |
| 300 | YNHH-0242   | 2022;11 | 18.9 | 18.7 EPI_ISL_11812183 | BA.2 |
| 301 | YNHH-0294   | 2022;12 | 20.2 | 20.1 EPI_ISL_11812185 | BA.2 |
| 302 | YNHH-0312   | 2022;12 | 24.1 | 23.8 EPI_ISL_11812188 | BA.2 |
| 303 | YNHH-0225   | 2022;11 | 17.6 | 17.2 EPI_ISL_11812191 | BA.2 |
| 304 | YNHH-0286   | 2022;12 | 23.5 | 23.3 EPI_ISL_11812192 | BA.2 |
| 305 | YNHH-0282   | 2022;12 | 17.5 | 17.6 EPI_ISL_11812193 | BA.2 |
| 306 | YNHH-0335   | 2022;12 | 21.9 | 21.5 EPI_ISL_11812194 | BA.2 |
| 307 | YNHH-0291   | 2022;12 | 23.1 | 22.8 EPI_ISL_11812199 | BA.2 |
| 308 | YNHH-0277   | 2022;12 | 23 | 22.7 EPI_ISL_11812201 | BA.2 |
### Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 309 | YNHH-0311 | 2022;12 | 31 | 30.4 | EPI_ISL_11812241 | BA.2 |
| 310 | YNHH-0304 | 2022;12 | 30.1 | 29.6 | EPI_ISL_11812244 | BA.2 |
| 311 | YNHH-0258 | 2022;11 | 26.4 | 26.2 | EPI_ISL_11812254 | BA.2 |
| 312 | YNHH-0262 | 2022;11 | 22 | 21.8 | EPI_ISL_11812255 | BA.2 |
| 313 | YNHH-0187 | 2022;11 | 27.4 | 26.9 | EPI_ISL_11812256 | BA.2 |
| 314 | YNHH-0289 | 2022;12 | 27.7 | 27.2 | EPI_ISL_11812257 | BA.2 |
| 315 | YNHH-0180 | 2022;11 | 29 | 29.1 | EPI_ISL_11812259 | BA.2 |
| 316 | YNHH-0228 | 2022;11 | 24.6 | 24.3 | EPI_ISL_11812262 | BA.2 |
| 317 | YNHH-0216 | 2022;11 | 30.6 | 29.9 | EPI_ISL_11812274 | BA.2 |
| 318 | YNHH-0185 | 2022;11 | 27.9 | 27.4 | EPI_ISL_11812282 | BA.2 |
| 319 | YNHH-0243 | 2022;11 | 30.9 | 29.8 | EPI_ISL_11812286 | BA.2 |
| 320 | CCF-0265 | 2022;14 | 17.57 | 18.11 | EPI_ISL_11889669 | BA.2 |
| 321 | CCF-0259 | 2022;13 | 16.56 | 19.67 | EPI_ISL_11889673 | BA.2 |
| 322 | CCF-0260 | 2022;13 | 17.08 | 17.43 | EPI_ISL_11889674 | BA.2 |
| 323 | CCF-0258 | 2022;13 | 23.01 | 23.74 | EPI_ISL_11889675 | BA.2 |
| 324 | CCF-0252 | 2022;13 | 21.72 | 22.2 | EPI_ISL_11889681 | BA.2 |
| 325 | CCF-0246 | 2022;13 | 26.39 | 26.98 | EPI_ISL_11889687 | BA.2 |
| 326 | CCF-0236 | 2022;13 | 17.34 | 17.37 | EPI_ISL_11889695 | BA.2 |
| 327 | CCF-0225 | 2022;13 | 23.55 | 23.39 | EPI_ISL_11889702 | BA.2 |
| 328 | CCF-0218 | 2022;13 | 27.07 | 26.82 | EPI_ISL_11889706 | BA.2 |
| 329 | CCF-0723 | 2022;13 | 20.06 | 19.75 | EPI_ISL_11889716 | BA.2 |
| 330 | CCF-0725 | 2022;13 | 18.28 | 17.8 | EPI_ISL_11889721 | BA.2 |
| 331 | Penn22 | 2022;10 | 17.9 | 17.7 | EPI_ISL_12001580 | BA.2 |
| 332 | Penn32 | 2022;10 | 24.2 | 23.7 | EPI_ISL_12001585 | BA.2 |
| 333 | Penn34 | 2022;10 | 19.9 | 19.7 | EPI_ISL_12001586 | BA.2 |
| 334 | Penn53 | 2022;11 | 19.2 | 18.9 | EPI_ISL_12001647 | BA.2 |
| 335 | Penn62 | 2022;11 | 16.4 | 16.4 | EPI_ISL_12001656 | BA.2 |
| 336 | Penn71 | 2022;12 | 15 | 14.8 | EPI_ISL_12001660 | BA.2 |
| 337 | Penn82 | 2022;12 | 17.9 | 17.8 | EPI_ISL_12001684 | BA.2 |
| 338 | YNHH-0363 | 2022;12 | 27.1 | 26.9 | EPI_ISL_12006440 | BA.2 |
| 339 | YNHH-0375 | 2022;12 | 19.5 | 19.2 | EPI_ISL_12006442 | BA.2 |
| 340 | YNHH-0343 | 2022;12 | 20.6 | 20.1 | EPI_ISL_12006447 | BA.2 |
| 341 | YNHH-0351 | 2022;12 | 30.5 | 30 | EPI_ISL_12006448 | BA.2 |
| 342 | YNHH-0373 | 2022;12 | 30.2 | 29.5 | EPI_ISL_12006449 | BA.2 |
| 343 | YNHH-0445 | 2022;13 | 23.3 | 23.3 | EPI_ISL_12006452 | BA.2 |
| 344 | YNHH-0427 | 2022;12 | 26.9 | 26.7 | EPI_ISL_12006459 | BA.2 |
| 345 | YNHH-0398 | 2022;12 | 19.1 | 19 | EPI_ISL_12006460 | BA.2 |
| 346 | YNHH-0411 | 2022;12 | 29.3 | 28.9 | EPI_ISL_12006468 | BA.2 |
| 347 | YNHH-0376 | 2022;12 | 25.3 | 25.3 | EPI_ISL_12006481 | BA.2 |
| 348 | YNHH-0437 | 2022;13 | 22.1 | 21.4 | EPI_ISL_12006483 | BA.2 |
| 349 | YNHH-0384 | 2022;12 | 21.4 | 21.2 | EPI_ISL_12006497 | BA.2 |
| 350 | YNHH-0400 | 2022;12 | 22.8 | 22.4 | EPI_ISL_12006506 | BA.2 |
| 351 | YNHH-0448 | 2022;13 | 28.8 | 28.3 | EPI_ISL_12006508 | BA.2 |
| 352 | YNHH-0397 | 2022;12 | 18.8 | 18.5 | EPI_ISL_12006516 | BA.2 |
### Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| A | B       | C   | D   | E           | F   |
|---|---------|-----|-----|-------------|-----|
| 353 | YNHH-0360 | 2022;12 | 23.1 | 22.4 | EPI_ISL_12006517 | BA.2   |
| 354 | YNHH-0454 | 2022;13 | 20  | 19.8 | EPI_ISL_12006523 | BA.2   |
| 355 | YNHH-0357 | 2022;12 | 23.1 | 23   | EPI_ISL_12006526 | BA.2   |
| 356 | YNHH-0496 | 2022;13 | 20.5 | 20.2 | EPI_ISL_12006532 | BA.2   |
| 357 | YNHH-0489 | 2022;13 | 16.6 | 16.4 | EPI_ISL_12006540 | BA.2   |
| 358 | YNHH-0470 | 2022;13 | 30.8 | 30.4 | EPI_ISL_12006541 | BA.2   |
| 359 | YNHH-0390 | 2022;12 | 26.8 | 26.5 | EPI_ISL_12006547 | BA.2   |
| 360 | YNHH-0490 | 2022;13 | 19   | 18.7 | EPI_ISL_12006550 | BA.2   |
| 361 | YNHH-0487 | 2022;13 | 20.5 | 20.4 | EPI_ISL_12006551 | BA.2   |
| 362 | YNHH-0464 | 2022;13 | 22.1 | 22.3 | EPI_ISL_12006556 | BA.2   |
| 363 | YNHH-0502 | 2022;13 | 19   | 18.7 | EPI_ISL_12006557 | BA.2   |
| 364 | YNHH-0463 | 2022;13 | 29.5 | 28.9 | EPI_ISL_12006558 | BA.2   |
| 365 | YNHH-0374 | 2022;12 | 21.7 | 21.6 | EPI_ISL_12006562 | BA.2   |
| 366 | YNHH-0466 | 2022;13 | 21.2 | 20.6 | EPI_ISL_12006563 | BA.2   |
| 367 | YNHH-0386 | 2022;12 | 22.4 | 22.1 | EPI_ISL_12006570 | BA.2   |
| 368 | YNHH-0465 | 2022;13 | 23.1 | 22.8 | EPI_ISL_12006573 | BA.2   |
| 369 | YNHH-0522 | 2022;13 | 19   | 18.6 | EPI_ISL_12006574 | BA.2   |
| 370 | YNHH-0491 | 2022;13 | 29.6 | 29   | EPI_ISL_12006582 | BA.2   |
| 371 | YNHH-0432 | 2022;13 | 24.5 | 24.2 | EPI_ISL_12006587 | BA.2   |
| 372 | YNHH-0505 | 2022;13 | 20.8 | 20.5 | EPI_ISL_12006595 | BA.2   |
| 373 | YNHH-0483 | 2022;13 | 29   | 28.9 | EPI_ISL_12006597 | BA.2   |
| 374 | YNHH-0526 | 2022;13 | 19.8 | 19.7 | EPI_ISL_12006605 | BA.2   |
| 375 | YNHH-0534 | 2022;13 | 22.4 | 22   | EPI_ISL_12006606 | BA.2   |
| 376 | YNHH-0485 | 2022;13 | 25.4 | 25.2 | EPI_ISL_12006612 | BA.2   |
| 377 | YNHH-0474 | 2022;13 | 23   | 22.4 | EPI_ISL_12006619 | BA.2   |
| 378 | YNHH-0460 | 2022;13 | 23   | 22.3 | EPI_ISL_12006620 | BA.2   |
| 379 | CCF-0693 | 2022;14 | 19.26 | 18.74 | EPI_ISL_12079931 | BA.2   |
| 380 | CCF-0678 | 2022;14 | 16.31 | 16.11 | EPI_ISL_12079935 | BA.2   |
| 381 | CCF-0322 | 2022;14 | 18.52 | 18.81 | EPI_ISL_12079949 | BA.2   |
| 382 | CCF-0666 | 2022;14 | 20.71 | 20.57 | EPI_ISL_12079951 | BA.2   |
| 383 | CCF-0326 | 2022;14 | 21.62 | 22.44 | EPI_ISL_12079953 | BA.2   |
| 384 | CCF-0334 | 2022;14 | 16.6  | 16.79 | EPI_ISL_12079955 | BA.2   |
| 385 | CCF-0341 | 2022;14 | 18.12 | 18.26 | EPI_ISL_12079956 | BA.2   |
| 386 | CCF-0662 | 2022;14 | 19.07 | 18.78 | EPI_ISL_12079958 | BA.2   |
| 387 | CCF-0380 | 2022;15 | 18.33 | 18.57 | EPI_ISL_12079967 | BA.2   |
| 388 | CCF-0650 | 2022;14 | 16.49 | 16.37 | EPI_ISL_12079972 | BA.2   |
| 389 | CCF-0384 | 2022;15 | 20.15 | 20.25 | EPI_ISL_12080000 | BA.2   |
| 390 | CCF-0677 | 2022;14 | 23.6  | 23.57 | EPI_ISL_12080003 | BA.2   |
| 391 | CCF-0318 | 2022;14 | 19.83 | 19.99 | EPI_ISL_12080011 | BA.2   |
| 392 | YNHH-0536 | 2022;13 | 22   | 21.6 | EPI_ISL_12109111 | BA.2   |
| 393 | YNHH-0575 | 2022;13 | 20   | 19.9 | EPI_ISL_12109112 | BA.2   |
| 394 | YNHH-0565 | 2022;13 | 20.8  | 20.2 | EPI_ISL_12109118 | BA.2   |
| 395 | YNHH-0714 | 2022;13 | 18.9  | 18.7 | EPI_ISL_12109123 | BA.2   |
| 396 | YNHH-0638 | 2022;13 | 19.5  | 19.2 | EPI_ISL_12109128 | BA.2   |
Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|    |     |     |     |     |     |
|----|-----|-----|-----|-----|-----|
| A  | YNHH-0557 | 2022;13 | 23.9 | 23.5 | EPI_ISL_12109134 | BA.2 |
|    | YNHH-0608 | 2022;13 | 18.5 | 18.4 | EPI_ISL_12109140 | BA.2 |
|    | YNHH-0644 | 2022;13 | 17.9 | 17.6 | EPI_ISL_12109150 | BA.2 |
|    | YNHH-0724 | 2022;13 | 16.8 | 16.8 | EPI_ISL_12109153 | BA.2 |
|    | YNHH-0760 | 2022;14 | 16.2 | 15.8 | EPI_ISL_12109157 | BA.2 |
|    | YNHH-0604 | 2022;13 | 17.4 | 17.4 | EPI_ISL_12109159 | BA.2 |
|    | YNHH-0630 | 2022;13 | 17.3 | 17.6 | EPI_ISL_12109160 | BA.2 |
|    | YNHH-0716 | 2022;13 | 15.8 | 15.7 | EPI_ISL_12109162 | BA.2 |
|    | YNHH-0556 | 2022;13 | 17.8 | 17.6 | EPI_ISL_12109164 | BA.2 |
|    | YNHH-0634 | 2022;13 | 21  | 20.9 | EPI_ISL_12109166 | BA.2 |
|    | YNHH-0774 | 2022;14 | 14.8 | 15.3 | EPI_ISL_12109167 | BA.2 |
|    | YNHH-0717 | 2022;13 | 22.4 | 22.1 | EPI_ISL_12109170 | BA.2 |
|    | YNHH-0713 | 2022;13 | 24.2 | 23.8 | EPI_ISL_12109177 | BA.2 |
|    | YNHH-0653 | 2022;13 | 19.1 | 18.8 | EPI_ISL_12109180 | BA.2 |
|    | YNHH-0696 | 2022;13 | 20.4 | 20.1 | EPI_ISL_12109185 | BA.2 |
|    | YNHH-0697 | 2022;13 | 17.3 | 17.1 | EPI_ISL_12109191 | BA.2 |
|    | YNHH-0730 | 2022;13 | 25.3 | 25.1 | EPI_ISL_12109192 | BA.2 |
|    | YNHH-0666 | 2022;13 | 18.5 | 18.6 | EPI_ISL_12109196 | BA.2 |
|    | YNHH-0754 | 2022;14 | 21.4 | 21.4 | EPI_ISL_12109197 | BA.2 |
|    | YNHH-0782 | 2022;14 | 18.1 | 18    | EPI_ISL_12109204 | BA.2 |
|    | YNHH-0670 | 2022;13 | 22.8 | 22.7 | EPI_ISL_12109206 | BA.2 |
|    | YNHH-0701 | 2022;13 | 23.1 | 23    | EPI_ISL_12109207 | BA.2 |
|    | YNHH-0789 | 2022;14 | 18.5 | 18.3 | EPI_ISL_12109209 | BA.2 |
|    | YNHH-0856 | 2022;14 | 25.5 | 25.1 | EPI_ISL_12109210 | BA.2 |
|    | YNHH-0726 | 2022;13 | 23.5 | 23.4 | EPI_ISL_12109213 | BA.2 |
|    | YNHH-0735 | 2022;13 | 20   | 20    | EPI_ISL_12109216 | BA.2 |
|    | YNHH-0691 | 2022;13 | 22.6 | 22.2 | EPI_ISL_12109229 | BA.2 |
|    | YNHH-0712 | 2022;13 | 26.5 | 26.2 | EPI_ISL_12109232 | BA.2 |
|    | YNHH-0584 | 2022;13 | 23.1 | 22.9 | EPI_ISL_12109235 | BA.2 |
|    | YNHH-0628 | 2022;13 | 22   | 21.8 | EPI_ISL_12109244 | BA.2 |
|    | YNHH-0624 | 2022;13 | 24.7 | 24.5 | EPI_ISL_12109245 | BA.2 |
|    | YNHH-0613 | 2022;13 | 25.9 | 25.7 | EPI_ISL_12109247 | BA.2 |
|    | YNHH-0631 | 2022;13 | 17.6 | 17.6 | EPI_ISL_12109248 | BA.2 |
|    | YNHH-0639 | 2022;13 | 30   | 29.9 | EPI_ISL_12109249 | BA.2 |
|    | YNHH-0606 | 2022;13 | 23.4 | 23.2 | EPI_ISL_12109253 | BA.2 |
|    | YNHH-0573 | 2022;13 | 29.3 | 28.7 | EPI_ISL_12109255 | BA.2 |
|    | YNHH-0623 | 2022;13 | 23.1 | 22.8 | EPI_ISL_12109259 | BA.2 |
|    | YNHH-0612 | 2022;13 | 18.1 | 17.9 | EPI_ISL_12109263 | BA.2 |
|    | YNHH-0728 | 2022;13 | 21.2 | 20.9 | EPI_ISL_12109264 | BA.2 |
|    | YNHH-0710 | 2022;13 | 20   | 19.8 | EPI_ISL_12109268 | BA.2 |
|    | YNHH-0836 | 2022;14 | 19.6 | 19.4 | EPI_ISL_12109269 | BA.2 |
|    | YNHH-0715 | 2022;13 | 22.3 | 21.9 | EPI_ISL_12109270 | BA.2 |
|    | YNHH-0702 | 2022;13 | 19   | 18.8 | EPI_ISL_12109271 | BA.2 |
|    | YNHH-0778 | 2022;14 | 17.5 | 17.2 | EPI_ISL_12109273 | BA.2 |
## Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| A |   | B   |   |   |   |
| 441 | YNHH-0675 | 2022;13 | 21.8 | 21.6 | EPI_ISL_12109277 | BA.2 |
| 442 | YNHH-0878 | 2022;14 | 18.0 | 18.0 | EPI_ISL_12109282 | BA.2 |
| 443 | YNHH-0767 | 2022;14 | 17.3 | 17.1 | EPI_ISL_12109283 | BA.2 |
| 444 | YNHH-0711 | 2022;13 | 19.4 | 19.3 | EPI_ISL_12109285 | BA.2 |
| 445 | YNHH-0768 | 2022;14 | 23.9 | 23.9 | EPI_ISL_12109286 | BA.2 |
| 446 | YNHH-0777 | 2022;14 | 18.2 | 18.1 | EPI_ISL_12109288 | BA.2 |
| 447 | YNHH-0655 | 2022;13 | 20.8 | 20.5 | EPI_ISL_12109292 | BA.2 |
| 448 | YNHH-0766 | 2022;14 | 21.2 | 21.0 | EPI_ISL_12109294 | BA.2 |
| 449 | MSK 39 | 2022;12 | 29.35 | 28.92 | EPI_ISL_12145504 | BA.2 |
| 450 | MSK 40 | 2022;12 | 23.43 | 22.53 | EPI_ISL_12145513 | BA.2 |
| 451 | MSK 41 | 2022;12 | 32.51 | 30.54 | EPI_ISL_12145519 | BA.2 |
| 452 | MSK 26 | 2022;10 | 29.39 | 28.24 | EPI_ISL_12146857 | BA.2 |
| 453 | MSK 25 | 2022;10 | 27.01 | 28.14 | EPI_ISL_12146861 | BA.2 |
| 454 | MSK 45 | 2022;13 | 20.27 | 20.02 | EPI_ISL_12148420 | BA.2 |
| 455 | MSK 49 | 2022;13 | 26.79 | 25.86 | EPI_ISL_12148431 | BA.2 |
| 456 | MSK 52 | 2022;13 | 20.96 | 20.46 | EPI_ISL_12148432 | BA.2 |
| 457 | MSK 51 | 2022;13 | 25.83 | 25.24 | EPI_ISL_12148433 | BA.2 |
| 458 | MSK 59 | 2022;13 | 24.78 | 24.11 | EPI_ISL_12148435 | BA.2 |
| 459 | MSK 58 | 2022;13 | 20.8 | 22.34 | EPI_ISL_12148440 | BA.2 |
| 460 | MSK 54 | 2022;13 | 19.05 | 18.56 | EPI_ISL_12148449 | BA.2 |
| 461 | MSK 67 | 2022;14 | 16.51 | 16.06 | EPI_ISL_12148505 | BA.2 |
| 462 | MSK 68 | 2022;14 | 18.01 | 17.67 | EPI_ISL_12148506 | BA.2 |
| 463 | MSK 72 | 2022;14 | 25.43 | 25.18 | EPI_ISL_12148528 | BA.2 |
| 464 | Columbia 41 | 2022;11 | 22.1 | 21.6 | EPI_ISL_12191744 | BA.2 |
| 465 | Columbia 51 | 2022;12 | 30.3 | 30.7 | EPI_ISL_12191746 | BA.2 |
| 466 | Columbia 71 | 2022;12 | 26.8 | 26.7 | EPI_ISL_12191747 | BA.2 |
| 467 | Columbia 91 | 2022;13 | 19.8 | 19.4 | EPI_ISL_12191752 | BA.2 |
| 468 | Columbia 144 | 2022;14 | 24.4 | 23.9 | EPI_ISL_12191764 | BA.2 |
| 469 | Columbia 139 | 2022;14 | 19.4 | 19.4 | EPI_ISL_12191767 | BA.2 |
| 470 | Columbia 162 | 2022;15 | 25.4 | 25.2 | EPI_ISL_12191772 | BA.2 |
| 471 | CCF-0856 | 2022;10 | 19.08 | 18.89 | EPI_ISL_10942193 | BA.2.10 |
| 472 | YNHH-0049 | 2022;10 | 25.1 | 24.9 | EPI_ISL_11503898 | BA.2.10 |
| 473 | YNHH-0088 | 2022;10 | 18.6 | 18.4 | EPI_ISL_11576341 | BA.2.10 |
| 474 | YNHH-0082 | 2022;10 | 19.3 | 18.7 | EPI_ISL_11576348 | BA.2.10 |
| 475 | YNHH-0119 | 2022;11 | 22.9 | 22.3 | EPI_ISL_11576356 | BA.2.10 |
| 476 | YNHH-0171 | 2022;11 | 24.7 | 24.2 | EPI_ISL_11576394 | BA.2.10 |
| 477 | Columbia 61 | 2022;12 | 18.4 | 18.6 | EPI_ISL_11680562 | BA.2.10 |
| 478 | CCF-0153 | 2022;12 | 19.19 | 19.89 | EPI_ISL_11695310 | BA.2.10 |
| 479 | YNHH-0224 | 2022;11 | 18.2 | 18.0 | EPI_ISL_11812169 | BA.2.10 |
| 480 | YNHH-0302 | 2022;12 | 16.9 | 16.7 | EPI_ISL_11812195 | BA.2.10 |
| 481 | YNHH-0215 | 2022;11 | 22.0 | 21.5 | EPI_ISL_11812198 | BA.2.10 |
| 482 | YNHH-0279 | 2022;12 | 29.6 | 29.1 | EPI_ISL_11812243 | BA.2.10 |
| 483 | YNHH-0272 | 2022;12 | 29.3 | 28.7 | EPI_ISL_11812247 | BA.2.10 |
| 484 | YNHH-0192 | 2022;11 | 28.5 | 27.8 | EPI_ISL_11812251 | BA.2.10 |

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|   |   |   |   |
|---|---|---|---|
| A | B       | C   | D   |
| 485 | YNHH-0183 | 2022;11 | 29.3 | 28.7 | EPI_ISL_11812275 | BA.2.10 |
| 486 | Penn10 | 2022;10 | 22.7 | 22.4 | EPI_ISL_12001567 | BA.2.10 |
| 487 | Penn46 | 2022;11 | 21.2 | 20.9 | EPI_ISL_12001636 | BA.2.10 |
| 488 | YNHH-0550 | 2022;13 | 21.9 | 21.4 | EPI_ISL_12006607 | BA.2.10 |
| 489 | CCF-0315 | 2022;14 | 16.7 | 16.62 | EPI_ISL_12079925 | BA.2.10 |
| 490 | CCF-0661 | 2022;14 | 17.43 | 17.28 | EPI_ISL_12079957 | BA.2.10 |
| 491 | CCF-0702 | 2022;14 | 15.45 | 15.26 | EPI_ISL_12079986 | BA.2.10 |
| 492 | CCF-0331 | 2022;14 | 18.82 | 19.06 | EPI_ISL_12080002 | BA.2.10 |
| 493 | CCF-0686 | 2022;14 | 21.09 | 20.85 | EPI_ISL_12080008 | BA.2.10 |
| 494 | YNHH-0589 | 2022;13 | 30.9 | 30.5 | EPI_ISL_12109119 | BA.2.10 |
| 495 | YNHH-0583 | 2022;13 | 26.5 | 26.2 | EPI_ISL_12109158 | BA.2.10 |
| 496 | YNHH-0725 | 2022;13 | 21.6 | 21.3 | EPI_ISL_12109198 | BA.2.10 |
| 497 | YNHH-0674 | 2022;13 | 20.4 | 20.4 | EPI_ISL_12109214 | BA.2.10 |
| 498 | YNHH-0596 | 2022;13 | 19.4 | 19.2 | EPI_ISL_12109222 | BA.2.10 |
| 499 | YNHH-0618 | 2022;13 | 27.5 | 27 | EPI_ISL_12109252 | BA.2.10 |
| 500 | YNHH-0685 | 2022;13 | 21 | 20.7 | EPI_ISL_12109276 | BA.2.10 |
| 501 | YNHH-0872 | 2022;14 | 17.6 | 17.4 | EPI_ISL_12109279 | BA.2.10 |
| 502 | YNHH-0382 | 2022;12 | 23.2 | 23.5 | EPI_ISL_12006490 | BA.2.10.1 |
| 503 | YNHH-0422 | 2022;12 | 23.5 | 23.1 | EPI_ISL_12006498 | BA.2.10.1 |
| 504 | YNHH-0761 | 2022;14 | 24.2 | 24 | EPI_ISL_12109281 | BA.2.10.1 |
| 505 | CCF-0005 | 2022;10 | 21.53 | 21.42 | EPI_ISL_10942191 | BA.2.12 |
| 506 | CCF-0027 | 2022;10 | 20.73 | 20.47 | EPI_ISL_11169928 | BA.2.12 |
| 507 | CCF-0029 | 2022;10 | 18.47 | 18.5 | EPI_ISL_11169929 | BA.2.12 |
| 508 | CCF-0842 | 2022;10 | 24.99 | 24.37 | EPI_ISL_11169936 | BA.2.12 |
| 509 | CCF-0829 | 2022;10 | 22.69 | 22.19 | EPI_ISL_11169938 | BA.2.12 |
| 510 | CCF-0139 | 2022;11 | 17.45 | 17.21 | EPI_ISL_11378425 | BA.2.12 |
| 511 | CCF-0793 | 2022;12 | 22.43 | 22.08 | EPI_ISL_11378427 | BA.2.12 |
| 512 | CCF-0128 | 2022;11 | 16.55 | 16.52 | EPI_ISL_11378428 | BA.2.12 |
| 513 | CCF-0115 | 2022;11 | 18.49 | 18.95 | EPI_ISL_11378432 | BA.2.12 |
| 514 | CCF-0116 | 2022;11 | 20.03 | 19.94 | EPI_ISL_11378433 | BA.2.12 |
| 515 | CCF-0112 | 2022;11 | 18.8 | 18.75 | EPI_ISL_11378436 | BA.2.12 |
| 516 | YNHH-0117 | 2022;11 | 19.6 | 19.3 | EPI_ISL_11576333 | BA.2.12 |
| 517 | CCF-0794 | 2022;12 | 24.07 | 23.76 | EPI_ISL_11695304 | BA.2.12 |
| 518 | CCF-0164 | 2022;12 | 16.7 | 16.76 | EPI_ISL_11695316 | BA.2.12 |
| 519 | CCF-0183 | 2022;12 | 27.27 | 27.24 | EPI_ISL_11695320 | BA.2.12 |
| 520 | CCF-0184 | 2022;12 | 24.41 | 24.44 | EPI_ISL_11695321 | BA.2.12 |
| 521 | CCF-0190 | 2022;12 | 17.2 | 17.36 | EPI_ISL_11695323 | BA.2.12 |
| 522 | CCF-0194 | 2022;12 | 24.3 | 24.4 | EPI_ISL_11695326 | BA.2.12 |
| 523 | CCF-0782 | 2022;12 | 28.77 | 28.04 | EPI_ISL_11695331 | BA.2.12 |
| 524 | CCF-0786 | 2022;12 | 17.86 | 17.74 | EPI_ISL_11695332 | BA.2.12 |
| 525 | CCF-0787 | 2022;12 | 21.58 | 21.15 | EPI_ISL_11695333 | BA.2.12 |
| 526 | CCF-0753 | 2022;13 | 20.34 | 19.86 | EPI_ISL_11695351 | BA.2.12 |
| 527 | YNHH-0248 | 2022;11 | 20 | 19.8 | EPI_ISL_11812146 | BA.2.12 |
| 528 | YNHH-0305 | 2022;12 | 19.4 | 19.2 | EPI_ISL_11812147 | BA.2.12 |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| A |   |   |   |   |   |
| 529 | YNHH-0229 | 2022;11 | 21.7 | 21.2 | EPI_ISL_11812156 | BA.2.12 |
| 530 | YNHH-0306 | 2022;12 | 20.7 | 20.4 | EPI_ISL_11812184 | BA.2.12 |
| 531 | YNHH-0295 | 2022;12 | 22.1 | 21.6 | EPI_ISL_11812186 | BA.2.12 |
| 532 | CCF-0227 | 2022;13 | 26.5 | 26.51 | EPI_ISL_11889657 | BA.2.12 |
| 533 | CCF-0263 | 2022;14 | 25.34 | 25.61 | EPI_ISL_11889667 | BA.2.12 |
| 534 | CCF-0253 | 2022;13 | 17.11 | 17.26 | EPI_ISL_11889682 | BA.2.12 |
| 535 | CCF-0244 | 2022;13 | 24.81 | 25.27 | EPI_ISL_11889685 | BA.2.12 |
| 536 | CCF-0245 | 2022;13 | 21.34 | 21.46 | EPI_ISL_11889686 | BA.2.12 |
| 537 | CCF-0220 | 2022;13 | 18.38 | 18.15 | EPI_ISL_11889698 | BA.2.12 |
| 538 | CCF-0224 | 2022;13 | 26.27 | 26.22 | EPI_ISL_11889701 | BA.2.12 |
| 539 | CCF-0209 | 2022;13 | 19.28 | 19.37 | EPI_ISL_11889710 | BA.2.12 |
| 540 | CCF-0719 | 2022;13 | 26.88 | 26.34 | EPI_ISL_11889712 | BA.2.12 |
| 541 | CCF-0720 | 2022;13 | 23 | 22.64 | EPI_ISL_11889713 | BA.2.12 |
| 542 | CCF-0713 | 2022;13 | 23.54 | 23.17 | EPI_ISL_11889717 | BA.2.12 |
| 543 | CCF-0741 | 2022;13 | 26.69 | 26.11 | EPI_ISL_11889730 | BA.2.12 |
| 544 | CCF-0743 | 2022;13 | 24.48 | 24.19 | EPI_ISL_11889731 | BA.2.12 |
| 545 | Penn29 | 2022;10 | 20 | 20.1 | EPI_ISL_12001584 | BA.2.12 |
| 546 | Penn65 | 2022;11 | 27.5 | 26.8 | EPI_ISL_12001658 | BA.2.12 |
| 547 | YNHH-0365 | 2022;12 | 21.6 | 21.5 | EPI_ISL_12006441 | BA.2.12 |
| 548 | YNHH-0385 | 2022;12 | 24 | 23.8 | EPI_ISL_12006443 | BA.2.12 |
| 549 | YNHH-0453 | 2022;13 | 21.5 | 21.1 | EPI_ISL_12006444 | BA.2.12 |
| 550 | YNHH-0414 | 2022;12 | 25.6 | 25.2 | EPI_ISL_12006522 | BA.2.12 |
| 551 | YNHH-0467 | 2022;13 | 22.5 | 22 | EPI_ISL_12006535 | BA.2.12 |
| 552 | YNHH-0518 | 2022;13 | 19.2 | 19.2 | EPI_ISL_12006575 | BA.2.12 |
| 553 | YNHH-0458 | 2022;13 | 27.6 | 26.9 | EPI_ISL_12006596 | BA.2.12 |
| 554 | YNHH-0475 | 2022;13 | 19.4 | 19.2 | EPI_ISL_12006603 | BA.2.12 |
| 555 | CCF-0697 | 2022;14 | 18.26 | 17.72 | EPI_ISL_12079924 | BA.2.12 |
| 556 | CCF-0294 | 2022;14 | 21.6 | 21.88 | EPI_ISL_12079929 | BA.2.12 |
| 557 | CCF-0692 | 2022;14 | 21.55 | 21.2 | EPI_ISL_12079934 | BA.2.12 |
| 558 | CCF-0374 | 2022;15 | 18.61 | 18.6 | EPI_ISL_12079961 | BA.2.12 |
| 559 | CCF-0368 | 2022;15 | 18.13 | 17.89 | EPI_ISL_12079984 | BA.2.12 |
| 560 | YNHH-0586 | 2022;13 | 22.2 | 21.9 | EPI_ISL_12109135 | BA.2.12 |
| 561 | YNHH-0747 | 2022;13 | 23.7 | 23.3 | EPI_ISL_12109144 | BA.2.12 |
| 562 | YNHH-0588 | 2022;13 | 18.8 | 18.7 | EPI_ISL_12109152 | BA.2.12 |
| 563 | YNHH-0640 | 2022;13 | 20.6 | 20.2 | EPI_ISL_12109161 | BA.2.12 |
| 564 | YNHH-0689 | 2022;13 | 19.8 | 19.3 | EPI_ISL_12109178 | BA.2.12 |
| 565 | YNHH-0845 | 2022;14 | 20.1 | 19.7 | EPI_ISL_12109187 | BA.2.12 |
| 566 | YNHH-0746 | 2022;13 | 25.3 | 25.2 | EPI_ISL_12109188 | BA.2.12 |
| 567 | YNHH-0810 | 2022;14 | 22.3 | 22.2 | EPI_ISL_12109195 | BA.2.12 |
| 568 | YNHH-0745 | 2022;13 | 25.2 | 24.6 | EPI_ISL_12109205 | BA.2.12 |
| 569 | YNHH-0809 | 2022;14 | 24 | 23.7 | EPI_ISL_12109212 | BA.2.12 |
| 570 | YNHH-0678 | 2022;13 | 25.5 | 24.9 | EPI_ISL_12109215 | BA.2.12 |
| 571 | YNHH-0880 | 2022;14 | 18.4 | 18.2 | EPI_ISL_12109218 | BA.2.12 |
| 572 | YNHH-0749 | 2022;14 | 19.8 | 19.4 | EPI_ISL_12109220 | BA.2.12 |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| A | B | C  | D  | E             | F             |
|---|---|----|----|---------------|---------------|
| 573 | YNHH-0683 | 2022;13 | 22.5 | 22.5 | EPI_ISL_12109231 | BA.2.12 |
| 574 | YNHH-0684 | 2022;13 | 18.6 | 18.4 | EPI_ISL_12109238 | BA.2.12 |
| 575 | YNHH-0719 | 2022;13 | 16.7 | 16.7 | EPI_ISL_12109267 | BA.2.12 |
| 576 | YNHH-0693 | 2022;13 | 18.9 | 18.7 | EPI_ISL_12109295 | BA.2.12 |
| 577 | MSK 34    | 2022;11 | 30.01 | 28.94 | EPI_ISL_12146394 | BA.2.12 |
| 578 | MSK 48    | 2022;13 | 25.67 | 25.35 | EPI_ISL_12148418 | BA.2.12 |
| 579 | MSK 62    | 2022;14 | 16.47 | 16.22 | EPI_ISL_12148483 | BA.2.12 |
| 580 | MSK 70    | 2022;14 | 24.12 | 23.58 | EPI_ISL_12148526 | BA.2.12 |
| 581 | MSK 71    | 2022;14 | 26.64 | 25.85 | EPI_ISL_12148527 | BA.2.12 |
| 582 | Columbia 43 | 2022;12 | 25    | 25   | EPI_ISL_12191745 | BA.2.12 |
| 583 | Columbia 129 | 2022;14 | 27.7 | 27.4 | EPI_ISL_12191761 | BA.2.12 |
| 584 | Columbia 134 | 2022;14 | 21.7 | 21.3 | EPI_ISL_12191766 | BA.2.12 |
| 585 | Columbia 167 | 2022;15 | 15.3 | 15.4 | EPI_ISL_12191770 | BA.2.12 |
| 586 | Columbia 163 | 2022;15 | 20.2 | 19.7 | EPI_ISL_12191774 | BA.2.12 |
| 587 | CCF-0193  | 2022;12 | 17.75 | 22.59 | EPI_ISL_11695325 | BA.2.12 |
| 588 | CCF-0264  | 2022;14 | 26.04 | 30.6 | EPI_ISL_11889668 | BA.2.12 |
| 589 | CCF-0266  | 2022;14 | 23.96 | 27.84 | EPI_ISL_11889670 | BA.2.12 |
| 590 | CCF-0257  | 2022;13 | 20    | 24.01 | EPI_ISL_11889678 | BA.2.12 |
| 591 | CCF-0250  | 2022;13 | 23.5  | 28.08 | EPI_ISL_11889679 | BA.2.12 |
| 592 | CCF-0254  | 2022;13 | 26.44 | 31.02 | EPI_ISL_11889683 | BA.2.12 |
| 593 | CCF-0248  | 2022;13 | 18.25 | 23.24 | EPI_ISL_11889684 | BA.2.12 |
| 594 | CCF-0233  | 2022;13 | 22.04 | 26.38 | EPI_ISL_11889693 | BA.2.12 |
| 595 | CCF-0231  | 2022;13 | 23.93 | 28.81 | EPI_ISL_11889696 | BA.2.12 |
| 596 | CCF-0226  | 2022;13 | 23.7  | 28.31 | EPI_ISL_11889703 | BA.2.12 |
| 597 | CCF-0219  | 2022;13 | 17.65 | 22.43 | EPI_ISL_11889707 | BA.2.12 |
| 598 | CCF-0733  | 2022;13 | 21.44 | 24.74 | EPI_ISL_11889722 | BA.2.12 |
| 599 | Penn72    | 2022;12 | 22.54 | 25.53 | EPI_ISL_12001666 | BA.2.12 |
| 600 | Penn73    | 2022;12 | 18.68 | 22.15 | EPI_ISL_12001670 | BA.2.12 |
| 601 | Penn79    | 2022;12 | 18.68 | 22.19 | EPI_ISL_12001677 | BA.2.12 |
| 602 | Penn84    | 2022;12 | 19.45 | 23.22 | EPI_ISL_12001691 | BA.2.12 |
| 603 | YNHH-0461 | 2022;13 | 16.5  | 20.9  | EPI_ISL_12006534 | BA.2.12 |
| 604 | YNHH-0545 | 2022;13 | 19.9  | 23.6  | EPI_ISL_12006584 | BA.2.12 |
| 605 | CCF-0282  | 2022;14 | 18.24 | 22.79 | EPI_ISL_12079926 | BA.2.12 |
| 606 | CCF-0307  | 2022;14 | 18.52 | 23.11 | EPI_ISL_12079940 | BA.2.12 |
| 607 | CCF-0309  | 2022;14 | 20.69 | 25.79 | EPI_ISL_12079941 | BA.2.12 |
| 608 | CCF-0373  | 2022;15 | 21.25 | 26.46 | EPI_ISL_12079960 | BA.2.12 |
| 609 | CCF-0377  | 2022;15 | 21.5  | 26.53 | EPI_ISL_12079964 | BA.2.12 |
| 610 | CCF-0379  | 2022;15 | 16.17 | 20.88 | EPI_ISL_12079966 | BA.2.12 |
| 611 | CCF-0361  | 2022;14 | 16.22 | 21.06 | EPI_ISL_12079969 | BA.2.12 |
| 612 | CCF-0296  | 2022;14 | 16.48 | 21.51 | EPI_ISL_12079985 | BA.2.12 |
| 613 | CCF-0385  | 2022;15 | 22.99 | 28.62 | EPI_ISL_12080001 | BA.2.12 |
| 614 | CCF-0311  | 2022;14 | 22.83 | 26.99 | EPI_ISL_12080009 | BA.2.12 |
| 615 | CCF-0354  | 2022;14 | 21.87 | 25.78 | EPI_ISL_12080010 | BA.2.12 |
| 616 | CCF-0640  | 2022;15 | 24.2  | 27.88 | EPI_ISL_12080031 | BA.2.12 |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|   |   |   |   |   |   |
|---|---|---|---|---|---|
|   |   |   |   |   |   |
| 617 | YNHH-0629 | 2022;13 | 25.3 | 28.5 | EPI_ISL_12109122 | BA.2.12.1 |
| 618 | YNHH-0590 | 2022;13 | 19.3 | 22.6 | EPI_ISL_12109133 | BA.2.12.1 |
| 619 | YNHH-0648 | 2022;13 | 20.6 | 25.2 | EPI_ISL_12109148 | BA.2.12.1 |
| 620 | YNHH-0772 | 2022;14 | 20.6 | 24.6 | EPI_ISL_12109149 | BA.2.12.1 |
| 621 | YNHH-0840 | 2022;14 | 18.3 | 22.4 | EPI_ISL_12109175 | BA.2.12.1 |
| 622 | YNHH-0752 | 2022;14 | 22.0 | 25.9 | EPI_ISL_12109183 | BA.2.12.1 |
| 623 | YNHH-0815 | 2022;14 | 19.2 | 21.9 | EPI_ISL_12109194 | BA.2.12.1 |
| 624 | YNHH-0757 | 2022;14 | 20.2 | 24.7 | EPI_ISL_12109275 | BA.2.12.1 |
| 625 | YNHH-0835 | 2022;14 | 19.9 | 19.9 | EPI_ISL_12109278 | BA.2.12.1 |
| 626 | YNHH-0650 | 2022;13 | 16.1 | 20.4 | EPI_ISL_12109287 | BA.2.12.1 |
| 627 | YNHH-0817 | 2022;14 | 16.6 | 21.9 | EPI_ISL_12109290 | BA.2.12.1 |
| 628 | MSK 1     | 2022;13 | 17.73 | 21.96 | EPI_ISL_12148421 | BA.2.12.1 |
| 629 | MSK 2     | 2022;13 | 25.56 | 28.87 | EPI_ISL_12148434 | BA.2.12.1 |
| 630 | MSK 3     | 2022;13 | 21.39 | 25.75 | EPI_ISL_12148451 | BA.2.12.1 |
| 631 | MSK 4     | 2022;13 | 24.25 | 28.37 | EPI_ISL_12148453 | BA.2.12.1 |
| 632 | MSK 5     | 2022;14 | 26.33 | 28.99 | EPI_ISL_12148472 | BA.2.12.1 |
| 633 | MSK 6     | 2022;14 | 27.51 | 30.91 | EPI_ISL_12148475 | BA.2.12.1 |
| 634 | MSK 7     | 2022;14 | 20.75 | 24.54 | EPI_ISL_12148497 | BA.2.12.1 |
| 635 | MSK 8     | 2022;14 | 16.97 | 21.01 | EPI_ISL_12148508 | BA.2.12.1 |
| 636 | MSK 9     | 2022;14 | 16.55 | 20.86 | EPI_ISL_12148511 | BA.2.12.1 |
| 637 | MSK 10    | 2022;14 | 24.28 | 27.9  | EPI_ISL_12148513 | BA.2.12.1 |
| 638 | MSK 11    | 2022;14 | 23.96 | 27.76 | EPI_ISL_12148519 | BA.2.12.1 |
| 639 | MSK 12    | 2022;14 | 17.63 | 21.97 | EPI_ISL_12148520 | BA.2.12.1 |
| 640 | MSK 13    | 2022;14 | 17.35 | 21.6  | EPI_ISL_12148521 | BA.2.12.1 |
| 641 | MSK 14    | 2022;14 | 21.09 | 25.27 | EPI_ISL_12148522 | BA.2.12.1 |
| 642 | MSK 15    | 2022;14 | 25.08 | 28.62 | EPI_ISL_12148523 | BA.2.12.1 |
| 643 | MSK 16    | 2022;14 | 20.82 | 25.24 | EPI_ISL_12148525 | BA.2.12.1 |
| 644 | Columbia 84 | 2022;13 | 26.7  | 30.4  | EPI_ISL_12191749 | BA.2.12.1 |
| 645 | Columbia 140 | 2022;14 | 18.6  | 21.6  | EPI_ISL_12191762 | BA.2.12.1 |
| 646 | Columbia 141 | 2022;14 | 19.6  | 24.3  | EPI_ISL_12191763 | BA.2.12.1 |
| 647 | Columbia 138 | 2022;14 | 24    | 27.5  | EPI_ISL_12191765 | BA.2.12.1 |
| 648 | Columbia 165 | 2022;15 | 19.9  | 24    | EPI_ISL_12191773 | BA.2.12.1 |
| 649 | Columbia 191 | 2022;15 | 18.3  | 22.6  | EPI_ISL_12191776 | BA.2.12.1 |
| 650 | Columbia 189 | 2022;15 | 26.6  | 30.1  | EPI_ISL_12191777 | BA.2.12.1 |
| 651 | Columbia 156 | 2022;14 | 24.1  | 28.2  | EPI_ISL_12191783 | BA.2.12.1 |
| 652 | Columbia 187 | 2022;15 | 19.7  | 24.1  | EPI_ISL_12191784 | BA.2.12.1 |
| 653 | Columbia 181 | 2022;15 | 16.7  | 20.3  | EPI_ISL_12191785 | BA.2.12.1 |
| 654 | Columbia 176 | 2022;15 | 26.5  | 30.3  | EPI_ISL_12191786 | BA.2.12.1 |
| 655 | WCMC-0116 | 2022;15 | 21.9  | 26    | EPI_ISL_12191787 | BA.2.12.1 |
| 656 | WCMC-0115 | 2022;14 | 29.1  | 31.9  | EPI_ISL_12191788 | BA.2.12.1 |
| 657 | CCF-0021 | 2022;10 | 17.01 | 17.74 | EPI_ISL_11169926 | BA.2.13 |
| 658 | CCF-0022 | 2022;10 | 17.04 | 17.5  | EPI_ISL_11169927 | BA.2.13 |
| 659 | YNHH-0402 | 2022;12 | 22.3  | 22.1  | EPI_ISL_12006473 | BA.2.13 |
| 660 | YNHH-0626 | 2022;13 | 24.5  | 24.3  | EPI_ISL_12109121 | BA.2.13 |
## Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

| A         | B         | C    | D    | E          | F               |
|-----------|-----------|------|------|------------|-----------------|
| 661       | YNHH-0646 | 2022;13 | 20.4 | 20.2       | EPI_ISL_12109171 | BA.2.13        |
| 662       | CCF-0163  | 2022;12 | 17.48 | 17.6       | EPI_ISL_11695315 | BA.2.16        |
| 663       | YNHH-0259 | 2022;11 | 20    | 19.4       | EPI_ISL_11812203 | BA.2.16        |
| 664       | YNHH-0500 | 2022;13 | 25.2  | 24.8       | EPI_ISL_12006613 | BA.2.16        |
| 665       | YNHH-0587 | 2022;13 | 25.3  | 25         | EPI_ISL_12109250 | BA.2.16        |
| 666       | MSK 55    | 2022;13 | 23.51 | 22.89      | EPI_ISL_12148448 | BA.2.16        |
| 667       | CCF-0039  | 2022;10 | 15.73 | 16.14      | EPI_ISL_11169940 | BA.2.3         |
| 668       | CCF-0041  | 2022;10 | 25.57 | 25.44      | EPI_ISL_11169941 | BA.2.3         |
| 669       | CCF-0060  | 2022;10 | 26.01 | 26.22      | EPI_ISL_11169993 | BA.2.3         |
| 670       | CCF-0123  | 2022;11 | 22.59 | 23.15      | EPI_ISL_11378429 | BA.2.3         |
| 671       | CCF-0093  | 2022;11 | 25.54 | 25.71      | EPI_ISL_11378439 | BA.2.3         |
| 672       | CCF-0084  | 2022;11 | 18.79 | 18.8       | EPI_ISL_11378442 | BA.2.3         |
| 673       | YNHH-0127 | 2022;11 | 16.1  | 15.8       | EPI_ISL_11576385 | BA.2.3         |
| 674       | YNHH-0155 | 2022;11 | 18.7  | 18.6       | EPI_ISL_11576391 | BA.2.3         |
| 675       | CCF-0159  | 2022;12 | 26.07 | 26.9       | EPI_ISL_11695313 | BA.2.3         |
| 676       | CCF-0167  | 2022;12 | 22.79 | 23.23      | EPI_ISL_11695317 | BA.2.3         |
| 677       | CCF-0192  | 2022;12 | 15.91 | 16.05      | EPI_ISL_11695324 | BA.2.3         |
| 678       | YNHH-0344 | 2022;12 | 25.4  | 24.6       | EPI_ISL_11812159 | BA.2.3         |
| 679       | YNHH-0283 | 2022;12 | 30.9  | 30.5       | EPI_ISL_11812239 | BA.2.3         |
| 680       | CCF-0251  | 2022;13 | 20.02 | 19.94      | EPI_ISL_11889680 | BA.2.3         |
| 681       | CCF-0247  | 2022;13 | 21.84 | 21.71      | EPI_ISL_11889688 | BA.2.3         |
| 682       | CCF-0234  | 2022;13 | 18.43 | 19.19      | EPI_ISL_11889694 | BA.2.3         |
| 683       | CCF-0232  | 2022;13 | 18.13 | 18.23      | EPI_ISL_11889697 | BA.2.3         |
| 684       | CCF-0223  | 2022;13 | 20.29 | 20.14      | EPI_ISL_11889700 | BA.2.3         |
| 685       | CCF-0722  | 2022;13 | 15.47 | 15.25      | EPI_ISL_11889715 | BA.2.3         |
| 686       | CCF-0715  | 2022;13 | 18.22 | 17.88      | EPI_ISL_11889719 | BA.2.3         |
| 687       | CCF-0730  | 2022;13 | 19.68 | 19.46      | EPI_ISL_11889723 | BA.2.3         |
| 688       | CCF-0735  | 2022;13 | 18.53 | 18.4       | EPI_ISL_11889724 | BA.2.3         |
| 689       | CCF-0736  | 2022;13 | 17.74 | 17.68      | EPI_ISL_11889725 | BA.2.3         |
| 690       | CCF-0737  | 2022;13 | 18.75 | 18.55      | EPI_ISL_11889726 | BA.2.3         |
| 691       | CCF-0738  | 2022;13 | 17.38 | 17.16      | EPI_ISL_11889727 | BA.2.3         |
| 692       | CCF-0739  | 2022;13 | 20.76 | 20.36      | EPI_ISL_11889728 | BA.2.3         |
| 693       | Penn56    | 2022;11 | 27.4  | 27.1       | EPI_ISL_12001653 | BA.2.3         |
| 694       | Penn76    | 2022;12 | 22.4  | 22         | EPI_ISL_12001673 | BA.2.3         |
| 695       | YNHH-0364 | 2022;12 | 17.9  | 17.9       | EPI_ISL_12006472 | BA.2.3         |
| 696       | YNHH-0456 | 2022;13 | 22.9  | 22.5       | EPI_ISL_12006475 | BA.2.3         |
| 697       | YNHH-0492 | 2022;13 | 22.8  | 22.5       | EPI_ISL_12006604 | BA.2.3         |
| 698       | CCF-0695  | 2022;14 | 20.91 | 20.62      | EPI_ISL_12079932 | BA.2.3         |
| 699       | CCF-0691  | 2022;14 | 21.25 | 20.88      | EPI_ISL_12079933 | BA.2.3         |
| 700       | CCF-0680  | 2022;14 | 21.48 | 21.23      | EPI_ISL_12079936 | BA.2.3         |
| 701       | CCF-0675  | 2022;14 | 22.9  | 22.43      | EPI_ISL_12079938 | BA.2.3         |
| 702       | CCF-0319  | 2022;14 | 17.58 | 17.94      | EPI_ISL_12079948 | BA.2.3         |
| 703       | CCF-0346  | 2022;14 | 18.57 | 18.67      | EPI_ISL_12079959 | BA.2.3         |
| 704       | CCF-0649  | 2022;15 | 19.44 | 19.1       | EPI_ISL_12079971 | BA.2.3         |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|    |     |     |     |     |     |     |
|----|-----|-----|-----|-----|-----|-----|
|    | A    | B    | C    | D    | E    | F    |
| 705 | CCF-0323 | 2022;14 | 17.62 | 18.04 | EPI_ISL_12079983 | BA.2.3 |
| 706 | CCF-0313 | 2022;14 | 18.27 | 18.72 | EPI_ISL_12080014 | BA.2.3 |
| 707 | CCF-0339 | 2022;14 | 23.39 | 23.76 | EPI_ISL_12080015 | BA.2.3 |
| 708 | YNHH-0563 | 2022;13 | 21.4 | 21.2 | EPI_ISL_12109125 | BA.2.3 |
| 709 | YNHH-0677 | 2022;13 | 20.7 | 20.5 | EPI_ISL_12109201 | BA.2.3 |
| 710 | YNHH-0818 | 2022;14 | 16.7 | 16.7 | EPI_ISL_12109293 | BA.2.3 |
| 711 | MSK 43 | 2022;12 | 34.09 | 31.16 | EPI_ISL_12145517 | BA.2.3 |
| 712 | MSK 73 | 2022;14 | 20.59 | 20.51 | EPI_ISL_12148529 | BA.2.3 |
| 713 | CCF-0330 | 2022;14 | 14.91 | 14.98 | EPI_ISL_12079954 | BA.2.3.2 |
| 714 | CCF-0239 | 2022;13 | 26.13 | 26.53 | EPI_ISL_11889689 | BA.2.5 |
| 715 | CCF-0212 | 2022;13 | 27.96 | 27.89 | EPI_ISL_11889709 | BA.2.5 |
| 716 | CCF-0769 | 2022;12 | 28.32 | 27.88 | EPI_ISL_11695336 | BA.2.6 |
| 717 | Penn94 | 2022;12 | 26.7 | 26.3 | EPI_ISL_12001703 | BA.2.6 |
| 718 | YNHH-0600 | 2022;13 | 20.3 | 20.1 | EPI_ISL_12109156 | BA.2.6 |
| 719 | YNHH-0159 | 2022;11 | 23.9 | 23.6 | EPI_ISL_11576401 | BA.2.7 |
| 720 | YNHH-0261 | 2022;11 | 22 | 21.8 | EPI_ISL_11812162 | BA.2.7 |
| 721 | YNHH-0246 | 2022;11 | 20.4 | 20.1 | EPI_ISL_11812167 | BA.2.7 |
| 722 | YNHH-0407 | 2022;12 | 22.5 | 22.3 | EPI_ISL_12006489 | BA.2.7 |
| 723 | YNHH-0389 | 2022;12 | 21.1 | 20.7 | EPI_ISL_12006539 | BA.2.7 |
| 724 | YNHH-0459 | 2022;13 | 23.7 | 23.4 | EPI_ISL_12006542 | BA.2.7 |
| 725 | YNHH-0482 | 2022;13 | 22.7 | 22.7 | EPI_ISL_12006543 | BA.2.7 |
| 726 | YNHH-0488 | 2022;13 | 25.9 | 25.3 | EPI_ISL_12006544 | BA.2.7 |
| 727 | YNHH-0388 | 2022;12 | 18.1 | 18 | EPI_ISL_12006554 | BA.2.7 |
| 728 | YNHH-0477 | 2022;13 | 18.7 | 18.4 | EPI_ISL_12006555 | BA.2.7 |
| 729 | YNHH-0476 | 2022;13 | 22.5 | 21.8 | EPI_ISL_12006566 | BA.2.7 |
| 730 | YNHH-0516 | 2022;13 | 26.8 | 26.5 | EPI_ISL_12006591 | BA.2.7 |
| 731 | YNHH-0524 | 2022;13 | 29.5 | 29 | EPI_ISL_12006615 | BA.2.7 |
| 732 | YNHH-0425 | 2022;12 | 17.7 | 17.5 | EPI_ISL_12006616 | BA.2.7 |
| 733 | YNHH-0537 | 2022;13 | 19.7 | 19.3 | EPI_ISL_12109113 | BA.2.7 |
| 734 | YNHH-0812 | 2022;14 | 24 | 23.7 | EPI_ISL_12109116 | BA.2.7 |
| 735 | YNHH-0740 | 2022;13 | 18.7 | 18.7 | EPI_ISL_12109136 | BA.2.7 |
| 736 | YNHH-0627 | 2022;13 | 21.1 | 21 | EPI_ISL_12109165 | BA.2.7 |
| 737 | YNHH-0659 | 2022;13 | 23.9 | 23.7 | EPI_ISL_12109173 | BA.2.7 |
| 738 | YNHH-0736 | 2022;13 | 21.8 | 21.6 | EPI_ISL_12109182 | BA.2.7 |
| 739 | YNHH-0692 | 2022;13 | 27.1 | 26.4 | EPI_ISL_12109184 | BA.2.7 |
| 740 | YNHH-0705 | 2022;13 | 22.6 | 22 | EPI_ISL_12109202 | BA.2.7 |
| 741 | YNHH-0657 | 2022;13 | 21.9 | 21.7 | EPI_ISL_12109221 | BA.2.7 |
| 742 | YNHH-0598 | 2022;13 | 19.9 | 19.7 | EPI_ISL_12109224 | BA.2.7 |
| 743 | YNHH-0636 | 2022;13 | 25.9 | 25.5 | EPI_ISL_12109225 | BA.2.7 |
| 744 | YNHH-0739 | 2022;13 | 20.9 | 20.7 | EPI_ISL_12109234 | BA.2.7 |
| 745 | YNHH-0193 | 2022;11 | 17.8 | 17.8 | EPI_ISL_118122174 | BA.2.8 |
| 746 | CCF-0851 | 2022;10 | 19.42 | 19.07 | EPI_ISL_10942192 | BA.2.9 |
| 747 | CCF-0042 | 2022;10 | 24.98 | 25.01 | EPI_ISL_11169931 | BA.2.9 |
| 748 | CCF-0841 | 2022;10 | 20.6 | 20.19 | EPI_ISL_11169935 | BA.2.9 |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|   | A      | B         | C     | D     | E                        | F  |
|---|--------|-----------|-------|-------|---------------------------|----|
| 749| CCF-0835 | 2022;10   | 19.93 | 19.68 | EPI_ISL_11169937         | BA.2.9 |
| 750| CCF-0074 | 2022;12   | 24.25 | 24.24 | EPI_ISL_11378423         | BA.2.9 |
| 751| CCF-0077 | 2022;12   | 19.19 | 19.3  | EPI_ISL_11378424         | BA.2.9 |
| 752| CCF-0821 | 2022;11   | 18.79 | 18.64 | EPI_ISL_11378426         | BA.2.9 |
| 753| CCF-0124 | 2022;11   | 24.44 | 25.08 | EPI_ISL_11378430         | BA.2.9 |
| 754| CCF-0119 | 2022;11   | 17.29 | 17.14 | EPI_ISL_11378435         | BA.2.9 |
| 755| CCF-0804 | 2022;11   | 19.48 | 19.06 | EPI_ISL_11378444         | BA.2.9 |
| 756| CCF-0806 | 2022;11   | 19.02 | 19    | EPI_ISL_11378446         | BA.2.9 |
| 757| YNHH-0046| 2022;10   | 20    | 19.9  | EPI_ISL_11576289         | BA.2.9 |
| 758| YNHH-0052| 2022;10   | 27.4  | 26.7  | EPI_ISL_11576295         | BA.2.9 |
| 759| YNHH-0148| 2022;11   | 20.1  | 19.7  | EPI_ISL_11576372         | BA.2.9 |
| 760| YNHH-0123| 2022;11   | 29.2  | 28.6  | EPI_ISL_11576373         | BA.2.9 |
| 761| YNHH-0161| 2022;11   | 17.7  | 17.7  | EPI_ISL_11576398         | BA.2.9 |
| 762| YNHH-0156| 2022;11   | 19.4  | 19.3  | EPI_ISL_11576404         | BA.2.9 |
| 763| YNHH-0149| 2022;11   | 24.8  | 24.4  | EPI_ISL_11576410         | BA.2.9 |
| 764| CCF-0144 | 2022;12   | 20.87 | 21.01 | EPI_ISL_11695305         | BA.2.9 |
| 765| CCF-0147 | 2022;12   | 21.14 | 21.14 | EPI_ISL_11695308         | BA.2.9 |
| 766| CCF-0155 | 2022;12   | 26.29 | 26.33 | EPI_ISL_11695311         | BA.2.9 |
| 767| CCF-0156 | 2022;12   | 22.28 | 22.37 | EPI_ISL_11695312         | BA.2.9 |
| 768| CCF-0161 | 2022;12   | 21.42 | 21.47 | EPI_ISL_11695314         | BA.2.9 |
| 769| CCF-0168 | 2022;12   | 22.86 | 23.59 | EPI_ISL_11695318         | BA.2.9 |
| 770| CCF-0181 | 2022;12   | 26.52 | 26.3  | EPI_ISL_11695319         | BA.2.9 |
| 771| CCF-0186 | 2022;12   | 25    | 25.07 | EPI_ISL_11695322         | BA.2.9 |
| 772| CCF-0195 | 2022;12   | 16.52 | 16.17 | EPI_ISL_11695327         | BA.2.9 |
| 773| CCF-0198 | 2022;13   | 26.62 | 27.59 | EPI_ISL_11695328         | BA.2.9 |
| 774| CCF-0777 | 2022;12   | 22.9  | 22.58 | EPI_ISL_11695334         | BA.2.9 |
| 775| CCF-0208 | 2022;13   | 24.23 | 24.36 | EPI_ISL_11695350         | BA.2.9 |
| 776| YNHH-0300| 2022;12   | 21.5  | 21.4  | EPI_ISL_11812150         | BA.2.9 |
| 777| YNHH-0218| 2022;11   | 25.7  | 25.5  | EPI_ISL_11812178         | BA.2.9 |
| 778| YNHH-0342| 2022;12   | 17.2  | 16.9  | EPI_ISL_11812197         | BA.2.9 |
| 779| YNHH-0333| 2022;12   | 27.8  | 27.5  | EPI_ISL_11812249         | BA.2.9 |
| 780| YNHH-0195| 2022;11   | 23.1  | 22.6  | EPI_ISL_11812260         | BA.2.9 |
| 781| YNHH-0223| 2022;11   | 30.2  | 29.5  | EPI_ISL_11812280         | BA.2.9 |
| 782| YNHH-0190| 2022;11   | 26.5  | 26.1  | EPI_ISL_11812283         | BA.2.9 |
| 783| YNHH-0217| 2022;11   | 25.5  | 25    | EPI_ISL_11812295         | BA.2.9 |
| 784| CCF-0268 | 2022;14   | 25.61 | 25.22 | EPI_ISL_11889671         | BA.2.9 |
| 785| CCF-0261 | 2022;13   | 23.16 | 23.13 | EPI_ISL_11889672         | BA.2.9 |
| 786| CCF-0255 | 2022;13   | 20.1  | 20.15 | EPI_ISL_11889676         | BA.2.9 |
| 787| CCF-0256 | 2022;13   | 18.1  | 18.34 | EPI_ISL_11889677         | BA.2.9 |
| 788| CCF-0241 | 2022;13   | 16.36 | 16.35 | EPI_ISL_11889690         | BA.2.9 |
| 789| CCF-0242 | 2022;13   | 20.37 | 21.36 | EPI_ISL_11889691         | BA.2.9 |
| 790| CCF-0243 | 2022;13   | 19.67 | 19.72 | EPI_ISL_11889692         | BA.2.9 |
| 791| CCF-0221 | 2022;13   | 18.12 | 17.94 | EPI_ISL_11889699         | BA.2.9 |
| 792| CCF-0228 | 2022;13   | 22.19 | 22.23 | EPI_ISL_11889704         | BA.2.9 |
Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|   | A          | B           | C    | D    | E                           | F     |
|---|------------|-------------|------|------|-----------------------------|-------|
| 793| CCF-0215   | 2022;13     | 18.1 | 18.35| EPI_ISL_11889708            | BA.2.9|
| 794| CCF-0207   | 2022;13     | 28.08| 28.11| EPI_ISL_11889711            | BA.2.9|
| 795| CCF-0746   | 2022;13     | 22.17| 21.62| EPI_ISL_11889714            | BA.2.9|
| 796| CCF-0714   | 2022;13     | 17.62| 17.6 | EPI_ISL_11889718            | BA.2.9|
| 797| CCF-0747   | 2022;13     | 20.15| 19.8 | EPI_ISL_11889729            | BA.2.9|
| 798| Penn40     | 2022;11     | 21.9 | 22.1 | EPI_ISL_12001609            | BA.2.9|
| 799| Penn48     | 2022;11     | 18.8 | 18.4 | EPI_ISL_12001638            | BA.2.9|
| 800| Penn68     | 2022;11     | 25.7 | 25.6 | EPI_ISL_12001659            | BA.2.9|
| 801| Penn80     | 2022;12     | 23.3 | 23.2 | EPI_ISL_12001682            | BA.2.9|
| 802| YNHH-0417  | 2022;12     | 21.8 | 21.5 | EPI_ISL_12006451            | BA.2.9|
| 803| YNHH-0420  | 2022;12     | 24.8 | 24.6 | EPI_ISL_12006457            | BA.2.9|
| 804| YNHH-0424  | 2022;12     | 21.4 | 21.1 | EPI_ISL_12006467            | BA.2.9|
| 805| YNHH-0409  | 2022;12     | 27.1 | 26.5 | EPI_ISL_12006482            | BA.2.9|
| 806| YNHH-0369  | 2022;12     | 23.5 | 23.4 | EPI_ISL_12006492            | BA.2.9|
| 807| YNHH-0416  | 2022;12     | 29.7 | 29.5 | EPI_ISL_12006499            | BA.2.9|
| 808| YNHH-0408  | 2022;12     | 27.4 | 26.8 | EPI_ISL_12006500            | BA.2.9|
| 809| YNHH-0481  | 2022;13     | 29.5 | 28.9 | EPI_ISL_12006536            | BA.2.9|
| 810| YNHH-0480  | 2022;13     | 29.3 | 28.9 | EPI_ISL_12006552            | BA.2.9|
| 811| YNHH-0393  | 2022;12     | 26.8 | 26.5 | EPI_ISL_12006578            | BA.2.9|
| 812| YNHH-0517  | 2022;13     | 23.3 | 23   | EPI_ISL_12006580            | BA.2.9|
| 813| YNHH-0494  | 2022;13     | 24.2 | 23.8 | EPI_ISL_12006581            | BA.2.9|
| 814| YNHH-0418  | 2022;12     | 19.5 | 19.3 | EPI_ISL_12006608            | BA.2.9|
| 815| YNHH-0503  | 2022;13     | 19.3 | 18.8 | EPI_ISL_12006611            | BA.2.9|
| 816| YNHH-0552  | 2022;13     | 20.8 | 20.5 | EPI_ISL_12006614            | BA.2.9|
| 817| CCF-0684   | 2022;14     | 19.11| 19.03| EPI_ISL_12079922            | BA.2.9|
| 818| CCF-0335   | 2022;14     | 19.47| 19.59| EPI_ISL_12079923            | BA.2.9|
| 819| CCF-0288   | 2022;14     | 18.01| 18.05| EPI_ISL_12079927            | BA.2.9|
| 820| CCF-0292   | 2022;14     | 19.61| 20.24| EPI_ISL_12079928            | BA.2.9|
| 821| CCF-0700   | 2022;14     | 22.14| 21.66| EPI_ISL_12079930            | BA.2.9|
| 822| CCF-0682   | 2022;14     | 18.91| 18.68| EPI_ISL_12079937            | BA.2.9|
| 823| CCF-0306   | 2022;14     | 15.57| 15.48| EPI_ISL_12079939            | BA.2.9|
| 824| CCF-0672   | 2022;14     | 18.44| 18.2 | EPI_ISL_12079942            | BA.2.9|
| 825| CCF-0671   | 2022;14     | 17.38| 17.16| EPI_ISL_12079943            | BA.2.9|
| 826| CCF-0324   | 2022;14     | 17.15| 17.53| EPI_ISL_12079950            | BA.2.9|
| 827| CCF-0668   | 2022;14     | 15.88| 15.56| EPI_ISL_12079952            | BA.2.9|
| 828| CCF-0375   | 2022;15     | 16.27| 16.49| EPI_ISL_12079962            | BA.2.9|
| 829| CCF-0376   | 2022;15     | 19.9 | 20.05| EPI_ISL_12079963            | BA.2.9|
| 830| CCF-0378   | 2022;15     | 19.44| 19.61| EPI_ISL_12079965            | BA.2.9|
| 831| CCF-0381   | 2022;15     | 17.03| 17.11| EPI_ISL_12079968            | BA.2.9|
| 832| CCF-0643   | 2022;15     | 18.44| 18.31| EPI_ISL_12079970            | BA.2.9|
| 833| CCF-0348   | 2022;14     | 21.06| 21.55| EPI_ISL_12080004            | BA.2.9|
| 834| CCF-0333   | 2022;14     | 22.26| 22.5 | EPI_ISL_12080005            | BA.2.9|
| 835| CCF-0328   | 2022;14     | 21.14| 21.33| EPI_ISL_12080006            | BA.2.9|
| 836| YNHH-0543  | 2022;13     | 18.8 | 18.4 | EPI_ISL_12109114            | BA.2.9|
|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| A | B   |   |   |   |   |   |
| 837 | YNHH-0585 | 2022;13 | 18.3 | 18.3 | EPI_ISL_12109115 | BA.2.9 |
| 838 | YNHH-0734 | 2022;13 | 18.8 | 18.5 | EPI_ISL_12109131 | BA.2.9 |
| 839 | YNHH-0579 | 2022;13 | 17.8 | 17.4 | EPI_ISL_12109139 | BA.2.9 |
| 840 | YNHH-0744 | 2022;13 | 25.8 | 25.6 | EPI_ISL_12109141 | BA.2.9 |
| 841 | YNHH-0665 | 2022;13 | 25 | 24.6 | EPI_ISL_12109151 | BA.2.9 |
| 842 | YNHH-0718 | 2022;13 | 18.3 | 18.1 | EPI_ISL_12109163 | BA.2.9 |
| 843 | YNHH-0622 | 2022;13 | 20.7 | 20.2 | EPI_ISL_12109168 | BA.2.9 |
| 844 | YNHH-0731 | 2022;13 | 23.1 | 23 | EPI_ISL_12109176 | BA.2.9 |
| 845 | YNHH-0706 | 2022;13 | 27.4 | 27.1 | EPI_ISL_12109179 | BA.2.9 |
| 846 | YNHH-0688 | 2022;13 | 20.4 | 19.9 | EPI_ISL_12109190 | BA.2.9 |
| 847 | YNHH-0763 | 2022;14 | 18.1 | 18.2 | EPI_ISL_12109219 | BA.2.9 |
| 848 | YNHH-0673 | 2022;13 | 18.4 | 18.3 | EPI_ISL_12109228 | BA.2.9 |
| 849 | YNHH-0574 | 2022;13 | 29 | 28.5 | EPI_ISL_12109243 | BA.2.9 |
| 850 | YNHH-0577 | 2022;13 | 29 | 28.4 | EPI_ISL_12109251 | BA.2.9 |
| 851 | YNHH-0582 | 2022;13 | 20.8 | 20.9 | EPI_ISL_12109254 | BA.2.9 |
| 852 | YNHH-0625 | 2022;13 | 17.8 | 18 | EPI_ISL_12109256 | BA.2.9 |
| 853 | YNHH-0562 | 2022;13 | 30.8 | 29.8 | EPI_ISL_12109258 | BA.2.9 |
| 854 | YNHH-0664 | 2022;13 | 19.2 | 18.9 | EPI_ISL_12109272 | BA.2.9 |
| 855 | YNHH-0758 | 2022;14 | 24.2 | 24.1 | EPI_ISL_12109289 | BA.2.9 |
| 856 | YNHH-0720 | 2022;13 | 25.2 | 25.1 | EPI_ISL_12109291 | BA.2.9 |
| 857 | MSK 33 | 2022;11 | 27.51 | 26.8 | EPI_ISL_12146393 | BA.2.9 |
| 858 | MSK 50 | 2022;13 | 17.65 | 17.78 | EPI_ISL_12148430 | BA.2.9 |
| 859 | MSK 57 | 2022;13 | 29.49 | 28.36 | EPI_ISL_12148439 | BA.2.9 |
| 860 | MSK 61 | 2022;14 | 22.35 | 21.66 | EPI_ISL_12148482 | BA.2.9 |
| 861 | Columbia 11 | 2022;10 | 25.7 | 25 | EPI_ISL_12191742 | BA.2.9 |
| 862 | Columbia 79 | 2022;13 | 18.6 | 18.7 | EPI_ISL_12191750 | BA.2.9 |
| 863 | Columbia 114 | 2022;14 | 22.8 | 22.5 | EPI_ISL_12191760 | BA.2.9 |
| 864 | Columbia 195 | 2022;15 | 32.7 | 33.3 | EPI_ISL_12191778 | BA.2.9 |
| 865 | Columbia 53 | 2022;12 | 26.9 | 27.3 | EPI_ISL_12198483 | BA.2.9 |
| 866 | YNHH-0707 | 2022;13 | 28.5 | 27.8 | EPI_ISL_12109199 | BA.3 |
| 867 | CCF-0002 | 2022;10 | 30.96 | 31.42 |   |   |
| 868 | CCF-0017 | 2022;10 | 32.44 | 33.53 |   |   |
| 869 | CCF-0040 | 2022;10 | 33.74 | 34.57 |   |   |
| 870 | CCF-0045 | 2022;10 | 33.75 | 35.09 |   |   |
| 871 | CCF-0055 | 2022;10 | 37.41 | 36.4 |   |   |
| 872 | CCF-0058 | 2022;10 | 36.36 | 35.96 |   |   |
| 873 | CCF-0067 | 2022;11 | 35.34 | 36.34 |   |   |
| 874 | CCF-0069 | 2022;11 | 34.47 | 35.38 |   |   |
| 875 | CCF-0073 | 2022;11 | 30.85 | 31.25 |   |   |
| 876 | CCF-0096 | 2022;11 | 31.26 | 31.51 |   |   |
| 877 | CCF-0097 | 2022;11 | 33.68 | 34.45 |   |   |
| 878 | CCF-0100 | 2022;11 | 32.36 | 32.88 |   |   |
| 879 | CCF-0101 | 2022;11 | 34.27 | 35.2 |   |   |
| 880 | CCF-0103 | 2022;11 | 33.8 | 34.46 |   |   |
### Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|    | A     | B     | C     | D     | E     | F     |
|----|-------|-------|-------|-------|-------|-------|
| 881| CCF-0108 | 2022;11 | 34.07 | 34.82 |
| 882| CCF-0110 | 2022;11 | 35.12 | 35.49 |
| 883| CCF-0120 | 2022;11 | 36.06 | 37.22 |
| 884| CCF-0131 | 2022;11 | 30.41 | 31.42 |
| 885| CCF-0162 | 2022;12 | 30.94 | 31.34 |
| 886| CCF-0169 | 2022;12 | 34.28 | 35.24 |
| 887| CCF-0170 | 2022;12 | 30.21 | 33.7  |
| 888| CCF-0172 | 2022;12 | 35.84 | 35.12 |
| 889| CCF-0178 | 2022;12 | 31.74 | 32.2  |
| 890| CCF-0180 | 2022;12 | 33.96 | 35.04 |
| 891| CCF-0182 | 2022;12 | 31.67 | 32.05 |
| 892| CCF-0187 | 2022;12 | 33.49 | 35.2  |
| 893| CCF-0200 | 2022;13 | 33.21 | 33.92 |
| 894| CCF-0211 | 2022;13 | 32.05 | 32.66 |
| 895| CCF-0213 | 2022;13 | 34.52 | 35.79 |
| 896| CCF-0217 | 2022;13 | 33.18 | 37.64 |
| 897| CCF-0235 | 2022;13 | 32.71 | 33.73 |
| 898| CCF-0237 | 2022;13 | 32.97 | 33.82 |
| 899| CCF-0238 | 2022;13 | 34.11 | 34.72 |
| 900| CCF-0240 | 2022;13 | 31.35 | 32.54 |
| 901| CCF-0249 | 2022;13 | 35.07 | 35.2  |
| 902| CCF-0262 | 2022;14 | 30.91 | 31.51 |
| 903| CCF-0285 | 2022;14 | 31.45 | 32.62 |
| 904| CCF-0290 | 2022;14 | 32.45 | 36.18 |
| 905| CCF-0295 | 2022;14 | 33.73 | 37.34 |
| 906| CCF-0308 | 2022;14 | 30.72 | 31.26 |
| 907| CCF-0310 | 2022;14 | 35.22 | 35.65 |
| 908| CCF-0321 | 2022;14 | 30.97 | 31.63 |
| 909| CCF-0327 | 2022;14 | 34.24 | 35.1  |
| 910| CCF-0329 | 2022;14 | 33.55 | 34.54 |
| 911| CCF-0340 | 2022;14 | 32.28 | 33.33 |
| 912| CCF-0347 | 2022;14 | 31.85 | 32.92 |
| 913| CCF-0362 | 2022;14 | 32.24 | 33.16 |
| 914| CCF-0391 | 2022;15 | 31.17 | 31.59 |
| 915| CCF-0393 | 2022;15 | 31.24 | 32.2  |
| 916| CCF-0422 | 2022;15 | 36.23 | 35.81 |
| 917| CCF-0427 | 2022;15 | 34.88 | 35.99 |
| 918| CCF-0432 | 2022;15 | 33.91 | 34.77 |
| 919| CCF-0433 | 2022;15 | 33.07 | 34.28 |
| 920| CCF-0434 | 2022;15 | 33   | 34.08 |
| 921| CCF-0449 | 2022;15 | 32.65 | 37.27 |
| 922| CCF-0451 | 2022;15 | 31.56 | 32.75 |
| 923| CCF-0457 | 2022;15 | 32.15 | 35.1  |
| 924| CCF-0468 | 2022;15 | 34.2  | 34.97 |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|    |     |     |     |     |     |     |
|----|-----|-----|-----|-----|-----|-----|
| A  | B   |     |     |     |     |     |
| 925| CCF-0475 | 2022;15 | 32.32 | 32.89 |
| 926| CCF-0476 | 2022;15 | 30.1  | 31.52 |
| 927| CCF-0492 | 2022;15 | 33.86 | 34.97 |
| 928| CCF-0498 | 2022;15 | 31.94 | 32.89 |
| 929| CCF-0515 | 2022;15 | 34.46 | 37.9 |
| 930| CCF-0518 | 2022;15 | 31.4  | 31.98 |
| 931| CCF-0524 | 2022;15 | 35.29 | 35.92 |
| 932| CCF-0535 | 2022;15 | 33.55 | 36.79 |
| 933| CCF-0546 | 2022;15 | 32.86 | 33.83 |
| 934| CCF-0553 | 2022;15 | 36.22 | 35.4 |
| 935| CCF-0557 | 2022;15 | 34.78 | 33.38 |
| 936| CCF-0563 | 2022;15 | 31.27 | 30.05 |
| 937| CCF-0571 | 2022;15 | 32.75 | 31.84 |
| 938| CCF-0576 | 2022;15 | 34.4  | 32.75 |
| 939| CCF-0585 | 2022;15 | 32.12 | 31.04 |
| 940| CCF-0589 | 2022;15 | 31.76 | 32.86 |
| 941| CCF-0594 | 2022;15 | 36.71 | 34.7 |
| 942| CCF-0612 | 2022;15 | 34.88 | 32.4 |
| 943| CCF-0614 | 2022;15 | 31.77 | 30.3 |
| 944| CCF-0615 | 2022;15 | 30.45 | 29.56 |
| 945| CCF-0617 | 2022;15 | 33.73 | 32.54 |
| 946| CCF-0636 | 2022;15 | 32.91 | 31.85 |
| 947| CCF-0639 | 2022;15 | 33.17 | 31.09 |
| 948| CCF-0656 | 2022;14 | 32.07 | 31.08 |
| 949| CCF-0665 | 2022;14 | 34.98 | 33.04 |
| 950| CCF-0676 | 2022;14 | 33.29 | 31.29 |
| 951| CCF-0683 | 2022;14 | 34.49 | 32.76 |
| 952| CCF-0687 | 2022;14 | 30.81 | 30.11 |
| 953| CCF-0704 | 2022;14 | 34.09 | 31.83 |
| 954| CCF-0706 | 2022;14 | 31.34 | 30.27 |
| 955| CCF-0718 | 2022;13 | 35.43 | 34.05 |
| 956| CCF-0728 | 2022;13 | 34.67 | 32.03 |
| 957| CCF-0729 | 2022;13 | 34.09 | 32.9 |
| 958| CCF-0734 | 2022;13 | 34.47 | 32.17 |
| 959| CCF-0744 | 2022;13 | 30.78 | 29.52 |
| 960| CCF-0754 | 2022;13 | 34.77 | 32.67 |
| 961| CCF-0755 | 2022;13 | 33.49 | 30.89 |
| 962| CCF-0764 | 2022;12 | 34.29 | 32.46 |
| 963| CCF-0770 | 2022;12 | 32.31 | 31.73 |
| 964| CCF-0779 | 2022;12 | 34.27 | 32.81 |
| 965| CCF-0780 | 2022;12 | 35.05 | 31.9 |
| 966| CCF-0788 | 2022;12 | 34.5  | 32.88 |
| 967| CCF-0789 | 2022;12 | 32.19 | 31.18 |
| 968| CCF-0796 | 2022;12 | 34.24 | 32.02 |

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### Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|   |   | A         | B       | C    | D    | E    | F    |
|---|---|-----------|---------|------|------|------|------|
| 969|   | CCF-0801  | 2022;11 | 34.2 | 31.68|      |      |
| 970|   | CCF-0810  | 2022;11 | 37.74| 35.03|      |      |
| 971|   | CCF-0816  | 2022;11 | 31.67| 30.78|      |      |
| 972|   | CCF-0818  | 2022;11 | 33.11| 31.3 |      |      |
| 973|   | CCF-0823  | 2022;11 | 34.43| 32.79|      |      |
| 974|   | CCF-0825  | 2022;11 | 35.06| 33.66|      |      |
| 975|   | CCF-0831  | 2022;10 | 34.22| 32.95|      |      |
| 976|   | CCF-0834  | 2022;10 | 34   | 31.68|      |      |
| 977|   | CCF-0836  | 2022;10 | 33.06| 31.55|      |      |
| 978|   | CCF-0840  | 2022;10 | 30.34| 29.69|      |      |
| 979|   | CCF-0847  | 2022;10 | 31.26| 30   |      |      |
| 980|   | CCF-0848  | 2022;10 | 30.05| 28.73|      |      |
| 981|   | CCF-0849  | 2022;10 | 31.74| 29.02|      |      |
| 982|   | CCF-0854  | 2022;10 | 36.03| 34.36|      |      |
| 983|   | CCF-0001  | 2022;10 | 26.69| 27.15|      |      |
| 984|   | CCF-0007  | 2022;10 | 21.04| 21.2 |      |      |
| 985|   | CCF-0008  | 2022;10 | 23.59| 23.53|      |      |
| 986|   | CCF-0009  | 2022;10 | 27.73| 27.61|      |      |
| 987|   | CCF-0011  | 2022;10 | 26.8 | 26.92|      |      |
| 988|   | CCF-0012  | 2022;10 | 20.39| 20.77|      |      |
| 989|   | CCF-0013  | 2022;10 | 20.95| 20.89|      |      |
| 990|   | CCF-0014  | 2022;10 | 25.27| 25.66|      |      |
| 991|   | CCF-0015  | 2022;10 | 20.22| 20.58|      |      |
| 992|   | CCF-0016  | 2022;10 | 16   | 16.27|      |      |
| 993|   | CCF-0018  | 2022;10 | 29.53| 29.85|      |      |
| 994|   | CCF-0026  | 2022;10 | 29.94| 30.14|      |      |
| 995|   | CCF-0028  | 2022;10 | 28.18| 28.64|      |      |
| 996|   | CCF-0032  | 2022;10 | 27.38| 27.56|      |      |
| 997|   | CCF-0035  | 2022;10 | 29.03| 29.54|      |      |
| 998|   | CCF-0036  | 2022;10 | 23.43| 23.61|      |      |
| 999|   | CCF-0052  | 2022;10 | 24.06| 24.14|      |      |
| 1000|  | CCF-0056  | 2022;10 | 28.78| 29.03|      |      |
| 1001|  | CCF-0059  | 2022;10 | 16.86| 17.07|      |      |
| 1002|  | CCF-0061  | 2022;10 | 29.38| 29.71|      |      |
| 1003|  | CCF-0072  | 2022;11 | 24.87| 25.22|      |      |
| 1004|  | CCF-0075  | 2022;12 | 23.63| 23.65|      |      |
| 1005|  | CCF-0076  | 2022;12 | 24.15| 24   |      |      |
| 1006|  | CCF-0078  | 2022;12 | 28.46| 28.39|      |      |
| 1007|  | CCF-0080  | 2022;11 | 18.38| 18.36|      |      |
| 1008|  | CCF-0082  | 2022;11 | 23.6 | 23.42|      |      |
| 1009|  | CCF-0083  | 2022;11 | 24.62| 24.77|      |      |
| 1010|  | CCF-0086  | 2022;11 | 29.81| 29.88|      |      |
| 1011|  | CCF-0087  | 2022;11 | 28.89| 29.08|      |      |
| 1012|  | CCF-0092  | 2022;11 | 29.5 | 29.96|      |      |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|   | A       | B       | C       | D       | E       | F       |
|---|---------|---------|---------|---------|---------|---------|
| 1013 | CCF-0094 | 2022;11 | 27.63   | 27.69   |         |         |
| 1014 | CCF-0098 | 2022;11 | 26.13   | 26.19   |         |         |
| 1015 | CCF-0105 | 2022;11 | 24.68   | 24.96   |         |         |
| 1016 | CCF-0106 | 2022;11 | 29.99   | 30.67   |         |         |
| 1017 | CCF-0109 | 2022;11 | 22.45   | 22.57   |         |         |
| 1018 | CCF-0113 | 2022;11 | 28.23   | 28.23   |         |         |
| 1019 | CCF-0121 | 2022;11 | 24.72   | 24.99   |         |         |
| 1020 | CCF-0122 | 2022;11 | 17.75   | 17.78   |         |         |
| 1021 | CCF-0125 | 2022;11 | 29.81   | 30.05   |         |         |
| 1022 | CCF-0127 | 2022;11 | 19.51   | 19.86   |         |         |
| 1023 | CCF-0129 | 2022;11 | 26.14   | 26.28   |         |         |
| 1024 | CCF-0130 | 2022;11 | 21.15   | 21.64   |         |         |
| 1025 | CCF-0132 | 2022;11 | 15.36   | 15.24   |         |         |
| 1026 | CCF-0134 | 2022;11 | 25.11   | 25.08   |         |         |
| 1027 | CCF-0135 | 2022;11 | 25.02   | 25      |         |         |
| 1028 | CCF-0136 | 2022;11 | 25.36   | 25.48   |         |         |
| 1029 | CCF-0137 | 2022;11 | 23.49   | 23.44   |         |         |
| 1030 | CCF-0138 | 2022;11 | 18.27   | 18.25   |         |         |
| 1031 | CCF-0142 | 2022;12 | 20.38   | 20.43   |         |         |
| 1032 | CCF-0146 | 2022;12 | 24.25   | 24.15   |         |         |
| 1033 | CCF-0151 | 2022;12 | 29.72   | 30.04   |         |         |
| 1034 | CCF-0152 | 2022;12 | 23.81   | 23.8    |         |         |
| 1035 | CCF-0154 | 2022;12 | 25.39   | 25.48   |         |         |
| 1036 | CCF-0157 | 2022;12 | 29.83   | 30.62   |         |         |
| 1037 | CCF-0158 | 2022;12 | 24.73   | 24.88   |         |         |
| 1038 | CCF-0160 | 2022;12 | 21.1    | 20.69   |         |         |
| 1039 | CCF-0165 | 2022;12 | 29.19   | 29.11   |         |         |
| 1040 | CCF-0171 | 2022;12 | 25.37   | 25.27   |         |         |
| 1041 | CCF-0173 | 2022;13 | 21.23   | 21.21   |         |         |
| 1042 | CCF-0174 | 2022;13 | 20.76   | 20.91   |         |         |
| 1043 | CCF-0175 | 2022;13 | 29.2    | 29.41   |         |         |
| 1044 | CCF-0176 | 2022;13 | 21.22   | 21.35   |         |         |
| 1045 | CCF-0177 | 2022;12 | 28.69   | 28.64   |         |         |
| 1046 | CCF-0185 | 2022;12 | 29.5    | 29.7    |         |         |
| 1047 | CCF-0197 | 2022;12 | 29.79   | 30.27   |         |         |
| 1048 | CCF-0201 | 2022;13 | 29.6    | 29.61   |         |         |
| 1049 | CCF-0206 | 2022;13 | 19.28   | 19.37   |         |         |
| 1050 | CCF-0214 | 2022;13 | 29.44   | 29.43   |         |         |
| 1051 | CCF-0216 | 2022;13 | 27.73   | 27.82   |         |         |
| 1052 | CCF-0229 | 2022;13 | 28.1    | 28.26   |         |         |
| 1053 | CCF-0267 | 2022;14 | 28.97   | 29.2    |         |         |
| 1054 | CCF-0269 | 2022;14 | 23.83   | 23.79   |         |         |
| 1055 | CCF-0270 | 2022;14 | 19.05   | 19.29   |         |         |
| 1056 | CCF-0271 | 2022;14 | 19.68   | 19.32   |         |         |
|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| 1057 | CCF-0272 | 2022;14 | 22.93 | 23.09 |   |   |
| 1058 | CCF-0273 | 2022;14 | 20.18 | 20.41 |   |   |
| 1059 | CCF-0274 | 2022;14 | 28.97 | 29.41 |   |   |
| 1060 | CCF-0275 | 2022;14 | 22.79 | 22.86 |   |   |
| 1061 | CCF-0276 | 2022;14 | 27.18 | 27.19 |   |   |
| 1062 | CCF-0277 | 2022;14 | 26.01 | 25.81 |   |   |
| 1063 | CCF-0278 | 2022;14 | 18.46 | 18.4 |   |   |
| 1064 | CCF-0279 | 2022;14 | 22.51 | 22.59 |   |   |
| 1065 | CCF-0280 | 2022;14 | 28.06 | 28.03 |   |   |
| 1066 | CCF-0281 | 2022;14 | 23.06 | 23.1 |   |   |
| 1067 | CCF-0283 | 2022;14 | 20.05 | 20.06 |   |   |
| 1068 | CCF-0286 | 2022;14 | 21.72 | 21.56 |   |   |
| 1069 | CCF-0287 | 2022;14 | 23.75 | 24.26 |   |   |
| 1070 | CCF-0289 | 2022;14 | 27.78 | 28.66 |   |   |
| 1071 | CCF-0291 | 2022;14 | 23.12 | 23.34 |   |   |
| 1072 | CCF-0293 | 2022;14 | 28.84 | 29.76 |   |   |
| 1073 | CCF-0301 | 2022;14 | 22.32 | 22.39 |   |   |
| 1074 | CCF-0302 | 2022;14 | 26.8 | 26.98 |   |   |
| 1075 | CCF-0303 | 2022;14 | 21.7 | 22.46 |   |   |
| 1076 | CCF-0304 | 2022;14 | 20.64 | 20.91 |   |   |
| 1077 | CCF-0305 | 2022;14 | 20.03 | 19.86 |   |   |
| 1078 | CCF-0312 | 2022;14 | 19.57 | 20.12 |   |   |
| 1079 | CCF-0314 | 2022;14 | 23.52 | 24.03 |   |   |
| 1080 | CCF-0316 | 2022;14 | 23.67 | 23.86 |   |   |
| 1081 | CCF-0320 | 2022;14 | 24.29 | 24.84 |   |   |
| 1082 | CCF-0325 | 2022;14 | 24.65 | 25.02 |   |   |
| 1083 | CCF-0332 | 2022;14 | 22.45 | 22.58 |   |   |
| 1084 | CCF-0336 | 2022;14 | 27.8 | 27.68 |   |   |
| 1085 | CCF-0338 | 2022;14 | 16.67 | 17.06 |   |   |
| 1086 | CCF-0342 | 2022;14 | 19.56 | 19.66 |   |   |
| 1087 | CCF-0344 | 2022;14 | 26 | 26.18 |   |   |
| 1088 | CCF-0345 | 2022;14 | 16.82 | 16.68 |   |   |
| 1089 | CCF-0350 | 2022;14 | 23.6 | 23.74 |   |   |
| 1090 | CCF-0352 | 2022;14 | 21.78 | 21.92 |   |   |
| 1091 | CCF-0353 | 2022;14 | 22.03 | 22.13 |   |   |
| 1092 | CCF-0355 | 2022;14 | 19.69 | 20.17 |   |   |
| 1093 | CCF-0356 | 2022;14 | 26.18 | 26.45 |   |   |
| 1094 | CCF-0357 | 2022;14 | 21.04 | 21.09 |   |   |
| 1095 | CCF-0358 | 2022;14 | 21.04 | 21.27 |   |   |
| 1096 | CCF-0359 | 2022;14 | 25.91 | 25.71 |   |   |
| 1097 | CCF-0360 | 2022;14 | 23.6 | 23.64 |   |   |
| 1098 | CCF-0363 | 2022;14 | 22.43 | 22.44 |   |   |
| 1099 | CCF-0365 | 2022;14 | 24.33 | 24.15 |   |   |
| 1100 | CCF-0367 | 2022;15 | 25.6 | 25.88 |   |   |
|   | A     | B    | C   |  | D   | E   |  |
|---|-------|------|-----|---|-----|-----|---|
| 1 | CCF-0369 | 2022;15 | 23.77 |  | 23.9 |  |  |
| 2 | CCF-0370 | 2022;15 | 17.49 |  | 17.69 |  |  |
| 3 | CCF-0372 | 2022;15 | 22.52 |  | 22.63 |  |  |
| 4 | CCF-0382 | 2022;15 | 21.74 |  | 21.77 |  |  |
| 5 | CCF-0383 | 2022;15 | 18.53 |  | 19.14 |  |  |
| 6 | CCF-0386 | 2022;15 | 20.34 |  | 20.48 |  |  |
| 7 | CCF-0387 | 2022;15 | 24.94 |  | 25.07 |  |  |
| 8 | CCF-0388 | 2022;15 | 27.22 |  | 27.19 |  |  |
| 9 | CCF-0389 | 2022;15 | 18.78 |  | 18.85 |  |  |
|10 | CCF-0392 | 2022;15 | 24.75 |  | 24.83 |  |  |
|11 | CCF-0394 | 2022;15 | 24.92 |  | 25.62 |  |  |
|12 | CCF-0395 | 2022;15 | 15.08 |  | 15.21 |  |  |
|13 | CCF-0396 | 2022;15 | 17.91 |  | 18.12 |  |  |
|14 | CCF-0399 | 2022;15 | 29.52 |  | 29.97 |  |  |
|15 | CCF-0400 | 2022;15 | 26.17 |  | 26.02 |  |  |
|16 | CCF-0401 | 2022;15 | 22.44 |  | 22.85 |  |  |
|17 | CCF-0402 | 2022;15 | 22.37 |  | 22.59 |  |  |
|18 | CCF-0403 | 2022;15 | 17.28 |  | 17.66 |  |  |
|19 | CCF-0405 | 2022;15 | 26.04 |  | 25.72 |  |  |
|20 | CCF-0406 | 2022;15 | 20.71 |  | 20.67 |  |  |
|21 | CCF-0407 | 2022;15 | 22.18 |  | 22.05 |  |  |
|22 | CCF-0408 | 2022;15 | 22.23 |  | 22.05 |  |  |
|23 | CCF-0411 | 2022;15 | 23.01 |  | 23.69 |  |  |
|24 | CCF-0413 | 2022;15 | 22.08 |  | 22.24 |  |  |
|25 | CCF-0415 | 2022;15 | 19.7 |  | 19.68 |  |  |
|26 | CCF-0416 | 2022;15 | 22.37 |  | 22.42 |  |  |
|27 | CCF-0417 | 2022;15 | 18.56 |  | 19.08 |  |  |
|28 | CCF-0418 | 2022;15 | 29.06 |  | 29.57 |  |  |
|29 | CCF-0420 | 2022;15 | 23.66 |  | 23.75 |  |  |
|30 | CCF-0421 | 2022;15 | 24.34 |  | 24.25 |  |  |
|31 | CCF-0423 | 2022;15 | 17.85 |  | 17.96 |  |  |
|32 | CCF-0424 | 2022;15 | 24.42 |  | 24.43 |  |  |
|33 | CCF-0425 | 2022;15 | 20.3 |  | 20.75 |  |  |
|34 | CCF-0429 | 2022;15 | 19.59 |  | 20.52 |  |  |
|35 | CCF-0430 | 2022;15 | 20.76 |  | 21.17 |  |  |
|36 | CCF-0435 | 2022;15 | 23.73 |  | 23.79 |  |  |
|37 | CCF-0436 | 2022;15 | 19.51 |  | 19.96 |  |  |
|38 | CCF-0437 | 2022;15 | 19.79 |  | 20.01 |  |  |
|39 | CCF-0438 | 2022;15 | 27.42 |  | 27.52 |  |  |
|40 | CCF-0439 | 2022;15 | 19.28 |  | 19.54 |  |  |
|41 | CCF-0440 | 2022;15 | 13.95 |  | 14.13 |  |  |
|42 | CCF-0441 | 2022;15 | 19.45 |  | 19.51 |  |  |
|43 | CCF-0442 | 2022;15 | 17.86 |  | 18.06 |  |  |
|44 | CCF-0443 | 2022;15 | 18.23 |  | 18.41 |  |  |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|   | A              | B      | C     | D     | E     | F     |
|---|----------------|--------|-------|-------|-------|-------|
| 1145 | CCF-0444      | 2022;15 | 29.54 | 29.85 |
| 1146 | CCF-0445      | 2022;15 | 22.12 | 22.29 |
| 1147 | CCF-0446      | 2022;15 | 21.56 | 21.65 |
| 1148 | CCF-0447      | 2022;15 | 28.96 | 29.2  |
| 1149 | CCF-0453      | 2022;15 | 21.67 | 22.18 |
| 1150 | CCF-0454      | 2022;15 | 21.22 | 21.37 |
| 1151 | CCF-0458      | 2022;15 | 25.7  | 25.91 |
| 1152 | CCF-0459      | 2022;15 | 15.13 | 15.26 |
| 1153 | CCF-0460      | 2022;15 | 23.71 | 23.97 |
| 1154 | CCF-0461      | 2022;15 | 20.7  | 20.94 |
| 1155 | CCF-0462      | 2022;15 | 19.24 | 19.35 |
| 1156 | CCF-0463      | 2022;15 | 23.31 | 23.45 |
| 1157 | CCF-0464      | 2022;15 | 19.4  | 20.31 |
| 1158 | CCF-0465      | 2022;15 | 18.34 | 18.56 |
| 1159 | CCF-0466      | 2022;15 | 26.76 | 27.61 |
| 1160 | CCF-0467      | 2022;15 | 28.58 | 28.87 |
| 1161 | CCF-0469      | 2022;15 | 28.62 | 28.94 |
| 1162 | CCF-0470      | 2022;15 | 19.49 | 20.03 |
| 1163 | CCF-0472      | 2022;15 | 17    | 17.06 |
| 1164 | CCF-0473      | 2022;15 | 24.9  | 25.81 |
| 1165 | CCF-0474      | 2022;15 | 24.03 | 23.98 |
| 1166 | CCF-0477      | 2022;15 | 20.29 | 20.14 |
| 1167 | CCF-0478      | 2022;15 | 16.49 | 16.79 |
| 1168 | CCF-0480      | 2022;15 | 17.05 | 16.93 |
| 1169 | CCF-0481      | 2022;15 | 17.21 | 17.35 |
| 1170 | CCF-0482      | 2022;15 | 20.46 | 20.64 |
| 1171 | CCF-0483      | 2022;15 | 27.31 | 19.74 |
| 1172 | CCF-0485      | 2022;15 | 19.42 | 19.41 |
| 1173 | CCF-0486      | 2022;15 | 19.16 | 19.39 |
| 1174 | CCF-0489      | 2022;15 | 19.06 | 19.13 |
| 1175 | CCF-0490      | 2022;15 | 19.94 | 20.24 |
| 1176 | CCF-0491      | 2022;15 | 18.8  | 19.03 |
| 1177 | CCF-0496      | 2022;15 | 19.67 | 19.82 |
| 1178 | CCF-0497      | 2022;15 | 21.22 | 21.94 |
| 1179 | CCF-0500      | 2022;15 | 24.68 | 25.48 |
| 1180 | CCF-0501      | 2022;15 | 17.23 | 17.25 |
| 1181 | CCF-0502      | 2022;15 | 26.92 | 26.73 |
| 1182 | CCF-0503      | 2022;15 | 24.07 | 24.78 |
| 1183 | CCF-0505      | 2022;15 | 20.5  | 21.66 |
| 1184 | CCF-0507      | 2022;15 | 25.18 | 25.18 |
| 1185 | CCF-0508      | 2022;15 | 17.82 | 18.18 |
| 1186 | CCF-0509      | 2022;15 | 22.57 | 22.7  |
| 1187 | CCF-0510      | 2022;15 | 24.84 | 24.96 |
| 1188 | CCF-0511      | 2022;15 | 21.37 | 21.5  |
|    |   |   |   |   |   |
|----|---|---|---|---|---|
| 1189 | CCF-0512 | 2022;15 | 17.5 | 17.55 |
| 1190 | CCF-0513 | 2022;15 | 18.75 | 19.01 |
| 1191 | CCF-0514 | 2022;15 | 22.8 | 23.04 |
| 1192 | CCF-0516 | 2022;15 | 21.27 | 21.38 |
| 1193 | CCF-0517 | 2022;15 | 19.22 | 19.8 |
| 1194 | CCF-0519 | 2022;15 | 18.56 | 18.8 |
| 1195 | CCF-0520 | 2022;15 | 19.88 | 19.83 |
| 1196 | CCF-0522 | 2022;15 | 21.07 | 21.17 |
| 1197 | CCF-0525 | 2022;15 | 29.03 | 29.44 |
| 1198 | CCF-0526 | 2022;15 | 21.94 | 22.13 |
| 1199 | CCF-0527 | 2022;15 | 20.35 | 20.42 |
| 1200 | CCF-0528 | 2022;15 | 16.92 | 17.02 |
| 1201 | CCF-0530 | 2022;15 | 18.49 | 18.53 |
| 1202 | CCF-0531 | 2022;15 | 22.17 | 23.3 |
| 1203 | CCF-0532 | 2022;15 | 17.08 | 17.65 |
| 1204 | CCF-0533 | 2022;15 | 28.22 | 28.6 |
| 1205 | CCF-0534 | 2022;15 | 21.26 | 21.33 |
| 1206 | CCF-0536 | 2022;15 | 20.08 | 20.29 |
| 1207 | CCF-0537 | 2022;15 | 15.57 | 16.05 |
| 1208 | CCF-0538 | 2022;15 | 17.41 | 18.06 |
| 1209 | CCF-0540 | 2022;15 | 20.93 | 21.41 |
| 1210 | CCF-0541 | 2022;15 | 23.27 | 23.89 |
| 1211 | CCF-0542 | 2022;15 | 19.13 | 19.92 |
| 1212 | CCF-0543 | 2022;15 | 20.72 | 20.71 |
| 1213 | CCF-0545 | 2022;15 | 25.03 | 25.47 |
| 1214 | CCF-0548 | 2022;15 | 21.8 | 21.99 |
| 1215 | CCF-0549 | 2022;15 | 21.5 | 21.53 |
| 1216 | CCF-0550 | 2022;15 | 18.23 | 18.63 |
| 1217 | CCF-0551 | 2022;15 | 19 | 19.52 |
| 1218 | CCF-0554 | 2022;15 | 27.43 | 27.59 |
| 1219 | CCF-0555 | 2022;15 | 17.85 | 18.03 |
| 1220 | CCF-0556 | 2022;15 | 26.09 | 25.98 |
| 1221 | CCF-0558 | 2022;15 | 26.69 | 26.88 |
| 1222 | CCF-0559 | 2022;15 | 21.82 | 21.64 |
| 1223 | CCF-0561 | 2022;15 | 27.48 | 27.1 |
| 1224 | CCF-0562 | 2022;15 | 26.52 | 26.05 |
| 1225 | CCF-0564 | 2022;15 | 13.82 | 13.23 |
| 1226 | CCF-0565 | 2022;15 | 16.32 | 16.28 |
| 1227 | CCF-0566 | 2022;15 | 18.94 | 18.8 |
| 1228 | CCF-0568 | 2022;15 | 21.74 | 21.58 |
| 1229 | CCF-0569 | 2022;15 | 26.08 | 25.57 |
| 1230 | CCF-0572 | 2022;15 | 17.27 | 17.12 |
| 1231 | CCF-0573 | 2022;15 | 20.36 | 20.02 |
| 1232 | CCF-0574 | 2022;15 | 22.64 | 22.27 |
|    | A      | B        | C   | D   | E   | F   |
|----|--------|----------|-----|-----|-----|-----|
| 1233| CCF-0575 | 2022;15  | 17.9 | 17.92 |
| 1234| CCF-0577 | 2022;15  | 20.34 | 20.09 |
| 1235| CCF-0581 | 2022;15  | 22.78 | 23.17 |
| 1236| CCF-0582 | 2022;15  | 16.11 | 15.81 |
| 1237| CCF-0587 | 2022;15  | 18.76 | 18.6  |
| 1238| CCF-0588 | 2022;15  | 18.27 | 18.12 |
| 1239| CCF-0591 | 2022;15  | 21.71 | 21.51 |
| 1240| CCF-0593 | 2022;15  | 22.02 | 21.68 |
| 1241| CCF-0595 | 2022;15  | 26.58 | 26.29 |
| 1242| CCF-0596 | 2022;15  | 22.39 | 21.97 |
| 1243| CCF-0597 | 2022;15  | 22.44 | 21.92 |
| 1244| CCF-0598 | 2022;15  | 14.37 | 13.93 |
| 1245| CCF-0601 | 2022;15  | 23.19 | 22.79 |
| 1246| CCF-0604 | 2022;15  | 20.58 | 20.18 |
| 1247| CCF-0605 | 2022;15  | 17.51 | 17.26 |
| 1248| CCF-0607 | 2022;15  | 20.65 | 20.2  |
| 1249| CCF-0608 | 2022;15  | 16.91 | 16.75 |
| 1250| CCF-0609 | 2022;15  | 20.08 | 19.71 |
| 1251| CCF-0610 | 2022;15  | 19.36 | 18.94 |
| 1252| CCF-0611 | 2022;15  | 25.18 | 24.84 |
| 1253| CCF-0613 | 2022;15  | 20.27 | 19.91 |
| 1254| CCF-0616 | 2022;15  | 25.29 | 24.73 |
| 1255| CCF-0618 | 2022;15  | 16.57 | 16.6  |
| 1256| CCF-0619 | 2022;15  | 22.07 | 21.7  |
| 1257| CCF-0620 | 2022;15  | 20.48 | 20.06 |
| 1258| CCF-0621 | 2022;15  | 21.76 | 21.38 |
| 1259| CCF-0623 | 2022;15  | 21.89 | 21.5  |
| 1260| CCF-0625 | 2022;15  | 17.89 | 17.85 |
| 1261| CCF-0626 | 2022;15  | 16.07 | 15.54 |
| 1262| CCF-0628 | 2022;15  | 17.61 | 17.52 |
| 1263| CCF-0630 | 2022;15  | 16.93 | 16.88 |
| 1264| CCF-0631 | 2022;15  | 19.59 | 19.31 |
| 1265| CCF-0632 | 2022;15  | 18.56 | 18.69 |
| 1266| CCF-0633 | 2022;15  | 18.47 | 18.35 |
| 1267| CCF-0635 | 2022;15  | 23.45 | 23.25 |
| 1268| CCF-0637 | 2022;15  | 17.12 | 17.01 |
| 1269| CCF-0644 | 2022;15  | 28.04 | 27.6  |
| 1270| CCF-0645 | 2022;15  | 20.83 | 20.67 |
| 1271| CCF-0646 | 2022;15  | 20.32 | 19.96 |
| 1272| CCF-0647 | 2022;15  | 29.57 | 29.01 |
| 1273| CCF-0648 | 2022;15  | 22.73 | 22.18 |
| 1274| CCF-0651 | 2022;14  | 19.31 | 19.13 |
| 1275| CCF-0652 | 2022;14  | 29.06 | 28.52 |
| 1276| CCF-0653 | 2022;14  | 26.35 | 25.9  |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|   |   | A     | B     | C     | D     | E     | F     |
|---|---|-------|-------|-------|-------|-------|-------|
| 1277 | 1278 | CCF-0654 | 2022;14 | 22.25 | 21.96 |
| 1279 | 1280 | CCF-0658 | 2022;14 | 18.83 | 18.53 |
| 1281 | 1282 | CCF-0659 | 2022;14 | 19.24 | 19.11 |
| 1283 | 1284 | CCF-0660 | 2022;14 | 23.71 | 23.4  |
| 1285 | 1286 | CCF-0663 | 2022;14 | 22.51 | 22.09 |
| 1287 | 1288 | CCF-0664 | 2022;14 | 26.78 | 26.56 |
| 1289 | 1290 | CCF-0667 | 2022;14 | 25.4  | 24.98 |
| 1291 | 1292 | CCF-0669 | 2022;14 | 28.07 | 27.5  |
| 1293 | 1294 | CCF-0670 | 2022;14 | 22.09 | 21.8  |
| 1295 | 1296 | CCF-0673 | 2022;14 | 18.06 | 17.76 |
| 1297 | 1298 | CCF-0674 | 2022;14 | 17.34 | 17.13 |
| 1299 | 1300 | CCF-0679 | 2022;14 | 23.21 | 22.76 |
| 1301 | 1302 | CCF-0681 | 2022;14 | 23.51 | 23.22 |
| 1303 | 1304 | CCF-0694 | 2022;14 | 25    | 24.51 |
| 1305 | 1306 | CCF-0696 | 2022;14 | 19.32 | 19.06 |
| 1307 | 1308 | CCF-0698 | 2022;14 | 26.63 | 26.19 |
| 1309 | 1310 | CCF-0699 | 2022;14 | 22.85 | 22.42 |
| 1311 | 1312 | CCF-0701 | 2022;14 | 26.4  | 26.5  |
| 1313 | 1314 | CCF-0703 | 2022;14 | 24.32 | 24.01 |
| 1315 | 1316 | CCF-0705 | 2022;14 | 25.2  | 24.62 |
| 1317 | 1318 | CCF-0710 | 2022;14 | 16.95 | 16.59 |
| 1319 | 1320 | CCF-0711 | 2022;14 | 20.56 | 20.15 |
| 1321 | 1322 | CCF-0712 | 2022;14 | 25.23 | 24.58 |
| 1323 | 1324 | CCF-0716 | 2022;14 | 28.41 | 27.63 |
| 1325 | 1326 | CCF-0721 | 2022;13 | 24.85 | 24.45 |
| 1327 | 1328 | CCF-0740 | 2022;13 | 28.95 | 28.35 |
| 1329 | 1330 | CCF-0748 | 2022;13 | 22.2  | 21.76 |
| 1331 | 1332 | CCF-0749 | 2022;13 | 17.89 | 17.78 |
| 1333 | 1334 | CCF-0750 | 2022;13 | 21.8  | 21.39 |
| 1335 | 1336 | CCF-0751 | 2022;13 | 27.45 | 26.84 |
| 1337 | 1338 | CCF-0756 | 2022;13 | 27.78 | 27.13 |
| 1339 | 1340 | CCF-0758 | 2022;13 | 23.04 | 22.87 |
| 1341 | 1342 | CCF-0781 | 2022;12 | 28.22 | 27.67 |
| 1343 | 1344 | CCF-0784 | 2022;12 | 28.92 | 28.26 |
| 1345 | 1346 | CCF-0790 | 2022;12 | 15    | 14.89 |
| 1347 | 1348 | CCF-0792 | 2022;12 | 28.82 | 28.33 |
| 1349 | 1350 | CCF-0799 | 2022;11 | 24.96 | 24.59 |
| 1351 | 1352 | CCF-0808 | 2022;11 | 19.93 | 19.81 |
| 1353 | 1354 | CCF-0809 | 2022;11 | 29.8  | 28.85 |
| 1355 | 1356 | CCF-0811 | 2022;11 | 22.19 | 21.95 |
| 1357 | 1358 | CCF-0815 | 2022;11 | 29.89 | 29.24 |
| 1359 | 1360 | CCF-0817 | 2022;11 | 21.81 | 21.31 |
| 1361 | 1362 | CCF-0838 | 2022;10 | 28.95 | 28.45 |
| 1363 | 1364 | CCF-0850 | 2022;10 | 24.62 | 23.93 |

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|    | A    | B    | C    | D    | E    | F    |
|----|------|------|------|------|------|------|
| 1321 | CCF-0852 | 2022;10 | 19.89 | 19.62 |      |      |
| 1322 | CCF-0859 | 2022;10 | 26.6  | 25.94 |      |      |
| 1323 | CCF-0196 | 2022;12 | 24.75 | 35.25 |      |      |
| 1324 | CCF-0222 | 2022;13 | 20.88 | 25.77 |      |      |
| 1325 | CCF-0284 | 2022;14 | 24.28 | 29.1  |      |      |
| 1326 | CCF-0317 | 2022;14 | 20.66 | 25.12 |      |      |
| 1327 | CCF-0337 | 2022;14 | 22.21 | 27.09 |      |      |
| 1328 | CCF-0351 | 2022;14 | 21.44 | 25.34 |      |      |
| 1329 | CCF-0364 | 2022;14 | 22.01 | 26.33 |      |      |
| 1330 | CCF-0366 | 2022;14 | 22.13 | 25.56 |      |      |
| 1331 | CCF-0371 | 2022;15 | 29.94 | 33.19 |      |      |
| 1332 | CCF-0390 | 2022;15 | 28.64 | 32.12 |      |      |
| 1333 | CCF-0397 | 2022;15 | 17.74 | 24.05 |      |      |
| 1334 | CCF-0398 | 2022;15 | 22.91 | 27.58 |      |      |
| 1335 | CCF-0404 | 2022;15 | 19.4  | 23.94 |      |      |
| 1336 | CCF-0409 | 2022;15 | 29.56 | 33.64 |      |      |
| 1337 | CCF-0410 | 2022;15 | 20.44 | 24.31 |      |      |
| 1338 | CCF-0412 | 2022;15 | 18.63 | 22.8  |      |      |
| 1339 | CCF-0419 | 2022;15 | 26.32 | 30.47 |      |      |
| 1340 | CCF-0426 | 2022;15 | 17.03 | 21.21 |      |      |
| 1341 | CCF-0428 | 2022;15 | 18.45 | 23.17 |      |      |
| 1342 | CCF-0448 | 2022;15 | 18.5  | 24.06 |      |      |
| 1343 | CCF-0452 | 2022;15 | 17.98 | 22.94 |      |      |
| 1344 | CCF-0455 | 2022;15 | 21.19 | 26.01 |      |      |
| 1345 | CCF-0456 | 2022;15 | 20    | 24.08 |      |      |
| 1346 | CCF-0471 | 2022;15 | 19.5  | 24.69 |      |      |
| 1347 | CCF-0479 | 2022;15 | 19.03 | 24.13 |      |      |
| 1348 | CCF-0484 | 2022;15 | 22.79 | 27.51 |      |      |
| 1349 | CCF-0488 | 2022;15 | 15.22 | 19.93 |      |      |
| 1350 | CCF-0493 | 2022;15 | 18.39 | 22.72 |      |      |
| 1351 | CCF-0494 | 2022;15 | 24.83 | 28.63 |      |      |
| 1352 | CCF-0495 | 2022;15 | 20.26 | 24.23 |      |      |
| 1353 | CCF-0499 | 2022;15 | 22.06 | 27.03 |      |      |
| 1354 | CCF-0504 | 2022;15 | 19.69 | 24.11 |      |      |
| 1355 | CCF-0506 | 2022;15 | 20.68 | 25.19 |      |      |
| 1356 | CCF-0521 | 2022;15 | 28.9  | 32.67 |      |      |
| 1357 | CCF-0523 | 2022;15 | 17.57 | 22.6  |      |      |
| 1358 | CCF-0529 | 2022;15 | 27.5  | 31.52 |      |      |
| 1359 | CCF-0539 | 2022;15 | 25.3  | 30.03 |      |      |
| 1360 | CCF-0544 | 2022;15 | 18.25 | 23.75 |      |      |
| 1361 | CCF-0547 | 2022;15 | 17.77 | 22.06 |      |      |
| 1362 | CCF-0552 | 2022;15 | 18.94 | 23.6  |      |      |
| 1363 | CCF-0560 | 2022;15 | 17.82 | 21.67 |      |      |
| 1364 | CCF-0567 | 2022;15 | 29.49 | 31.75 |      |      |
## Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|   | A       | B            | C    | D    | E    | F    |
|---|---------|--------------|------|------|------|------|
| 1365 | CCF-0570 | 2022;15 | 24.03 | 27.33 |      |      |
| 1366 | CCF-0579 | 2022;15 | 18.45 | 21.97 |      |      |
| 1367 | CCF-0580 | 2022;15 | 20.88 | 24.54 |      |      |
| 1368 | CCF-0583 | 2022;15 | 16.9  | 20.49 |      |      |
| 1369 | CCF-0584 | 2022;15 | 26.32 | 29.12 |      |      |
| 1370 | CCF-0586 | 2022;15 | 15.84 | 19.61 |      |      |
| 1371 | CCF-0590 | 2022;15 | 19.67 | 23.61 |      |      |
| 1372 | CCF-0592 | 2022;15 | 25.51 | 28.97 |      |      |
| 1373 | CCF-0599 | 2022;15 | 19.1  | 23.11 |      |      |
| 1374 | CCF-0600 | 2022;15 | 20.54 | 24.05 |      |      |
| 1375 | CCF-0602 | 2022;15 | 19.86 | 23.51 |      |      |
| 1376 | CCF-0603 | 2022;15 | 17.49 | 21.04 |      |      |
| 1377 | CCF-0606 | 2022;15 | 19.48 | 23.21 |      |      |
| 1378 | CCF-0622 | 2022;15 | 19.27 | 22.51 |      |      |
| 1379 | CCF-0624 | 2022;15 | 23.6  | 27.02 |      |      |
| 1380 | CCF-0627 | 2022;15 | 15.91 | 19.9  |      |      |
| 1381 | CCF-0634 | 2022;15 | 19.23 | 22.42 |      |      |
| 1382 | CCF-0638 | 2022;15 | 20.1  | 23.97 |      |      |
| 1383 | CCF-0641 | 2022;15 | 19.95 | 23.63 |      |      |
| 1384 | CCF-0642 | 2022;15 | 21.41 | 24.86 |      |      |
| 1385 | CCF-0685 | 2022;14 | 22.51 | 25.96 |      |      |
| 1386 | Columbia 10 | 2022;10 | 34.8  | 34.2  |      |      |
| 1387 | Columbia 100 | 2022;13 | 31.2  | 29.9  |      |      |
| 1388 | Columbia 108 | 2022;13 | 34.1  | 33.4  |      |      |
| 1389 | Columbia 111 | 2022;14 | 31.2  | 34.7  |      |      |
| 1390 | Columbia 113 | 2022;14 | 32.6  | 30.9  |      |      |
| 1391 | Columbia 123 | 2022;14 | 32.6  | 33.5  |      |      |
| 1392 | Columbia 126 | 2022;14 | 34.9  | 32.6  |      |      |
| 1393 | Columbia 127 | 2022;14 | 37.2  | 37.3  |      |      |
| 1394 | Columbia 13 | 2022;10 | 32.4  | 33.5  |      |      |
| 1395 | Columbia 133 | 2022;14 | 35.3  | 34.5  |      |      |
| 1396 | Columbia 135 | 2022;14 | 35.8  | 33.8  |      |      |
| 1397 | Columbia 142 | 2022;14 | 36.1  | 35.2  |      |      |
| 1398 | Columbia 145 | 2022;14 | 33.4  | 32.3  |      |      |
| 1399 | Columbia 148 | 2022;14 | 31.8  | 32.6  |      |      |
| 1400 | Columbia 150 | 2022;14 | 34.7  | 33.4  |      |      |
| 1401 | Columbia 151 | 2022;14 | 30.4  | 29.7  |      |      |
| 1402 | Columbia 153 | 2022;14 | 33.9  | 34.8  |      |      |
| 1403 | Columbia 155 | 2022;14 | 35.2  | 35.7  |      |      |
| 1404 | Columbia 157 | 2022;14 | 35.5  | 36.2  |      |      |
| 1405 | Columbia 158 | 2022;14 | 31.7  | 32.6  |      |      |
| 1406 | Columbia 159 | 2022;14 | 32.7  | 36.2  |      |      |
| 1407 | Columbia 16 | 2022;10 | 35.2  | 35.2  |      |      |
| 1408 | Columbia 160 | 2022;15 | 32.5  | 31.2  |      |      |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|    | A       | B           | C     | D     | E     | F     |
|----|---------|-------------|-------|-------|-------|-------|
| 1409| Columbia 164 | 2022;15 | 30.9  | 32.6  |
| 1410| Columbia 169 | 2022;15 | 35    | 33.9  |
| 1411| Columbia 170 | 2022;15 | 30.5  | 31.8  |
| 1412| Columbia 172 | 2022;15 | 30.8  | 30.3  |
| 1413| Columbia 174 | 2022;15 | 32.1  | 35.3  |
| 1414| Columbia 18  | 2022;10 | 32.8  | 31.5  |
| 1415| Columbia 180 | 2022;15 | 36.2  | 37    |
| 1416| Columbia 182 | 2022;15 | 30.6  | 34.3  |
| 1417| Columbia 184 | 2022;15 | 32.3  | 31.1  |
| 1418| Columbia 188 | 2022;15 | 33.3  | 32.1  |
| 1419| Columbia 194 | 2022;15 | 34.4  | 34.2  |
| 1420| Columbia 198 | 2022;15 | 33.7  | 33    |
| 1421| Columbia 2   | 2022;10 | 34.9  | 37.7  |
| 1422| Columbia 202 | 2022;15 | 31.2  | 33.5  |
| 1423| Columbia 21  | 2022;10 | 33.8  | 32.8  |
| 1424| Columbia 210 | 2022;15 | 30.6  | 31    |
| 1425| Columbia 212 | 2022;15 | 35.4  | 35.4  |
| 1426| Columbia 3   | 2022;10 | 32.1  | 32.8  |
| 1427| Columbia 31  | 2022;11 | 36    | 34.7  |
| 1428| Columbia 33  | 2022;11 | 31.5  | 30.7  |
| 1429| Columbia 36  | 2022;11 | 35    | 36.8  |
| 1430| Columbia 46  | 2022;12 | 32.6  | 31.9  |
| 1431| Columbia 47  | 2022;12 | 35.3  | 34.5  |
| 1432| Columbia 5   | 2022;10 | 36    | 36.9  |
| 1433| Columbia 52  | 2022;12 | 33    | 33.4  |
| 1434| Columbia 55  | 2022;12 | 32.5  | 31.7  |
| 1435| Columbia 56  | 2022;12 | 33    | 33.8  |
| 1436| Columbia 57  | 2022;12 | 33.4  | 34.1  |
| 1437| Columbia 6   | 2022;10 | 35.6  | 37.7  |
| 1438| Columbia 60  | 2022;12 | 32    | 30.9  |
| 1439| Columbia 63  | 2022;12 | 36.4  | 35.3  |
| 1440| Columbia 67  | 2022;12 | 32.7  | 32    |
| 1441| Columbia 7   | 2022;10 | 35.8  | 36.1  |
| 1442| Columbia 70  | 2022;12 | 30.6  | 30    |
| 1443| Columbia 74  | 2022;13 | 36.5  | 33.4  |
| 1444| Columbia 78  | 2022;13 | 31.7  | 30.9  |
| 1445| Columbia 83  | 2022;13 | 31.7  | 30.8  |
| 1446| Columbia 89  | 2022;13 | 36    | 34.1  |
| 1447| Columbia 92  | 2022;13 | 31.8  | 31    |
| 1448| Columbia 93  | 2022;13 | 35.6  | 35    |
| 1449| Columbia 95  | 2022;13 | 30.5  | 34.2  |
| 1450| Columbia 97  | 2022;13 | 33.5  | 34.4  |
| 1451| Columbia 1   | 2022;10 | 21.4  | 21    |
| 1452| Columbia 102 | 2022;13 | 17.6  | 17.4  |
## Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|   |   | A         | B         | C   | D   | E   | F   |
|---|---|-----------|-----------|-----|-----|-----|-----|
| 1453 | Columbia 103 | 2022;13   | 16.6 | 16.5 |     |     |     |
| 1454 | Columbia 106 | 2022;13   | 19.2 | 18.9 |     |     |     |
| 1455 | Columbia 107 | 2022;13   | 21.3 | 21.3 |     |     |     |
| 1456 | Columbia 109 | 2022;14   | 24.5 | 24.4 |     |     |     |
| 1457 | Columbia 110 | 2022;14   | 20.4 | 20.1 |     |     |     |
| 1458 | Columbia 112 | 2022;14   | 29.1 | 28.3 |     |     |     |
| 1459 | Columbia 115 | 2022;14   | 17.7 | 17.6 |     |     |     |
| 1460 | Columbia 116 | 2022;14   | 24.2 | 24   |     |     |     |
| 1461 | Columbia 117 | 2022;14   | 27.1 | 26.5 |     |     |     |
| 1462 | Columbia 118 | 2022;14   | 26.7 | 26.4 |     |     |     |
| 1463 | Columbia 119 | 2022;14   | 26.3 | 26   |     |     |     |
| 1464 | Columbia 12  | 2022;10   | 21.2 | 21   |     |     |     |
| 1465 | Columbia 120 | 2022;14   | 21.5 | 21.4 |     |     |     |
| 1466 | Columbia 121 | 2022;14   | 19.8 | 19.4 |     |     |     |
| 1467 | Columbia 122 | 2022;14   | 16.1 | 16.2 |     |     |     |
| 1468 | Columbia 124 | 2022;14   | 27.5 | 27.2 |     |     |     |
| 1469 | Columbia 125 | 2022;14   | 21.9 | 21.6 |     |     |     |
| 1470 | Columbia 130 | 2022;14   | 19.3 | 19.2 |     |     |     |
| 1471 | Columbia 131 | 2022;14   | 18.6 | 18.6 |     |     |     |
| 1472 | Columbia 136 | 2022;14   | 18   | 17.8 |     |     |     |
| 1473 | Columbia 137 | 2022;14   | 29   | 28.8 |     |     |     |
| 1474 | Columbia 143 | 2022;14   | 18.9 | 18.6 |     |     |     |
| 1475 | Columbia 146 | 2022;14   | 29   | 29.2 |     |     |     |
| 1476 | Columbia 147 | 2022;14   | 19.2 | 18.8 |     |     |     |
| 1477 | Columbia 149 | 2022;14   | 24   | 24.2 |     |     |     |
| 1478 | Columbia 15  | 2022;10   | 25.6 | 24.9 |     |     |     |
| 1479 | Columbia 152 | 2022;14   | 19.3 | 19.6 |     |     |     |
| 1480 | Columbia 154 | 2022;14   | 24.4 | 24.4 |     |     |     |
| 1481 | Columbia 161 | 2022;15   | 24.5 | 24   |     |     |     |
| 1482 | Columbia 166 | 2022;15   | 24.2 | 24.1 |     |     |     |
| 1483 | Columbia 168 | 2022;15   | 28.8 | 28.9 |     |     |     |
| 1484 | Columbia 17  | 2022;10   | 23.4 | 23.1 |     |     |     |
| 1485 | Columbia 173 | 2022;15   | 25.2 | 25.2 |     |     |     |
| 1486 | Columbia 175 | 2022;15   | 23.1 | 23.1 |     |     |     |
| 1487 | Columbia 177 | 2022;15   | 19.4 | 19.5 |     |     |     |
| 1488 | Columbia 178 | 2022;15   | 25.6 | 25.3 |     |     |     |
| 1489 | Columbia 183 | 2022;15   | 22.8 | 23.4 |     |     |     |
| 1490 | Columbia 186 | 2022;15   | 23.8 | 23.8 |     |     |     |
| 1491 | Columbia 19  | 2022;10   | 18.3 | 18.3 |     |     |     |
| 1492 | Columbia 190 | 2022;15   | 20.6 | 21.1 |     |     |     |
| 1493 | Columbia 192 | 2022;15   | 20.2 | 20.1 |     |     |     |
| 1494 | Columbia 196 | 2022;15   | 23.3 | 23.2 |     |     |     |
| 1495 | Columbia 199 | 2022;15   | 21.9 | 22.1 |     |     |     |
| 1496 | Columbia 201 | 2022;15   | 24.3 | 24.4 |     |     |     |
|    |     |     |     |     |     |     |
|----|-----|-----|-----|-----|-----|-----|
| 1497 | Columbia 203 | 2022;15 | 29.3 | 28.9 |    |    |
| 1498 | Columbia 205 | 2022;15 | 17.1 | 16.8 |    |    |
| 1499 | Columbia 206 | 2022;15 | 28.1 | 28  |    |    |
| 1500 | Columbia 209 | 2022;15 | 22.5 | 22.4 |    |    |
| 1501 | Columbia 211 | 2022;15 | 23.4 | 23.3 |    |    |
| 1502 | Columbia 23 | 2022;11 | 20.6 | 19.9 |    |    |
| 1503 | Columbia 24 | 2022;11 | 17.1 | 17  |    |    |
| 1504 | Columbia 25 | 2022;11 | 22.5 | 22.7 |    |    |
| 1505 | Columbia 28 | 2022;11 | 23.2 | 23.4 |    |    |
| 1506 | Columbia 29 | 2022;11 | 19.7 | 19.4 |    |    |
| 1507 | Columbia 30 | 2022;11 | 25.9 | 26.1 |    |    |
| 1508 | Columbia 34 | 2022;11 | 24  | 24  |    |    |
| 1509 | Columbia 37 | 2022;11 | 29.6 | 30.3 |    |    |
| 1510 | Columbia 38 | 2022;11 | 29.1 | 29.1 |    |    |
| 1511 | Columbia 39 | 2022;11 | 23.6 | 23.6 |    |    |
| 1512 | Columbia 4 | 2022;10 | 27.7 | 27.7 |    |    |
| 1513 | Columbia 40 | 2022;11 | 15.6 | 16.1 |    |    |
| 1514 | Columbia 42 | 2022;12 | 18.4 | 17.8 |    |    |
| 1515 | Columbia 44 | 2022;12 | 25  | 24.4 |    |    |
| 1516 | Columbia 45 | 2022;12 | 22.8 | 22.5 |    |    |
| 1517 | Columbia 49 | 2022;12 | 18  | 18.2 |    |    |
| 1518 | Columbia 50 | 2022;12 | 26.2 | 26.8 |    |    |
| 1519 | Columbia 64 | 2022;12 | 17.4 | 17.3 |    |    |
| 1520 | Columbia 65 | 2022;12 | 24.5 | 24.6 |    |    |
| 1521 | Columbia 76 | 2022;13 | 28.6 | 28  |    |    |
| 1522 | Columbia 77 | 2022;13 | 29.3 | 28.9 |    |    |
| 1523 | Columbia 80 | 2022;13 | 26.4 | 26.1 |    |    |
| 1524 | Columbia 81 | 2022;13 | 22.6 | 22.4 |    |    |
| 1525 | Columbia 85 | 2022;13 | 23  | 22.8 |    |    |
| 1526 | Columbia 86 | 2022;13 | 21.2 | 21.1 |    |    |
| 1527 | Columbia 87 | 2022;13 | 24.6 | 24.4 |    |    |
| 1528 | Columbia 88 | 2022;13 | 21.8 | 21.6 |    |    |
| 1529 | Columbia 90 | 2022;13 | 21.5 | 21  |    |    |
| 1530 | Columbia 94 | 2022;13 | 19.8 | 19.8 |    |    |
| 1531 | Columbia 96 | 2022;13 | 18.7 | 18.4 |    |    |
| 1532 | Columbia 98 | 2022;13 | 20.9 | 20.5 |    |    |
| 1533 | Columbia 99 | 2022;13 | 23.4 | 22.4 |    |    |
| 1534 | Columbia 105 | 2022;13 | 29.5 | 33.5 |    |    |
| 1535 | Columbia 128 | 2022;14 | 19.5 | 24  |    |    |
| 1536 | Columbia 197 | 2022;15 | 18.1 | 23  |    |    |
| 1537 | Columbia 200 | 2022;15 | 20.7 | 25.6 |    |    |
| 1538 | Columbia 213 | 2022;15 | 24.6 | 27.8 |    |    |
| 1539 | Columbia 35 | 2022;11 | 16.3 | 20.9 |    |    |
| 1540 | Columbia 58 | 2022;12 | 22.6 | 27  |    |    |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|     | A          | B          | C   | D   | E   | F   |
|-----|------------|------------|-----|-----|-----|-----|
| 1541| WCMC-0001  | 2022;10    | 32.2| 30.7|     |     |
| 1542| WCMC-0002  | 2022;10    | 33.9| 31.9|     |     |
| 1543| WCMC-0004  | 2022;10    | 31.6| 30.6|     |     |
| 1544| WCMC-0007  | 2022;10    | 33.5| 32  |     |     |
| 1545| WCMC-0009  | 2022;10    | 37.5| 35.3|     |     |
| 1546| WCMC-0017  | 2022;10    | 34.3| 33  |     |     |
| 1547| WCMC-0018  | 2022;11    | 34.4| 33.2|     |     |
| 1548| WCMC-0019  | 2022;11    | 34.8| 32.6|     |     |
| 1549| WCMC-0020  | 2022;11    | 35.1| 33.5|     |     |
| 1550| WCMC-0022  | 2022;11    | 31.2| 30  |     |     |
| 1551| WCMC-0027  | 2022;11    | 31.6| 30.6|     |     |
| 1552| WCMC-0030  | 2022;11    | 36.3| 35.1|     |     |
| 1553| WCMC-0034  | 2022;12    | 34.5| 32.1|     |     |
| 1554| WCMC-0035  | 2022;12    | 35.7| 34.5|     |     |
| 1555| WCMC-0038  | 2022;12    | 31.4| 30.2|     |     |
| 1556| WCMC-0039  | 2022;12    | 31.7| 31  |     |     |
| 1557| WCMC-0043  | 2022;12    | 32.6| 31  |     |     |
| 1558| WCMC-0045  | 2022;12    | 34.6| 33  |     |     |
| 1559| WCMC-0055  | 2022;12    | 34.3| 32.7|     |     |
| 1560| WCMC-0057  | 2022;13    | 32.6| 31.7|     |     |
| 1561| WCMC-0060  | 2022;13    | 34.8| 33  |     |     |
| 1562| WCMC-0062  | 2022;13    | 34.8| 33.7|     |     |
| 1563| WCMC-0064  | 2022;13    | 32.9| 31.2|     |     |
| 1564| WCMC-0071  | 2022;13    | 35.4| 33.7|     |     |
| 1565| WCMC-0075  | 2022;13    | 31.9| 30.7|     |     |
| 1566| WCMC-0076  | 2022;13    | 31.8| 30.7|     |     |
| 1567| WCMC-0081  | 2022;13    | 30.5| 29.8|     |     |
| 1568| WCMC-0085  | 2022;13    | 35.7| 33.8|     |     |
| 1569| WCMC-0086  | 2022;13    | 34.3| 31.9|     |     |
| 1570| WCMC-0094  | 2022;14    | 32.2| 30.8|     |     |
| 1571| WCMC-0098  | 2022;14    | 32.4| 31.2|     |     |
| 1572| WCMC-0100  | 2022;14    | 32.1| 31.2|     |     |
| 1573| WCMC-0103  | 2022;14    | 33.7| 31.9|     |     |
| 1574| WCMC-0104  | 2022;14    | 36.6| 33.3|     |     |
| 1575| WCMC-0107  | 2022;14    | 34.7| 33.7|     |     |
| 1576| WCMC-0109  | 2022;14    | 35.6| 33.5|     |     |
| 1577| WCMC-0111  | 2022;14    | 33.3| 31.9|     |     |
| 1578| WCMC-0112  | 2022;14    | 33.6| 32.8|     |     |
| 1579| WCMC-0120  | 2022;15    | 32.1| 34.2|     |     |
| 1580| WCMC-0003  | 2022;10    | 20  | 19.9|     |     |
| 1581| WCMC-0005  | 2022;10    | 28.5| 28.2|     |     |
| 1582| WCMC-0008  | 2022;10    | 20.3| 20.2|     |     |
| 1583| WCMC-0010  | 2022;10    | 29.8| 29.3|     |     |
| 1584| WCMC-0011  | 2022;10    | 29.7| 29.3|     |     |
## Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|   |   | A | B     | C  | D  | E  | F  |
|---|---|---|-------|----|----|----|----|
| 1585 | WCMC-0012 | 2022;10 | 25.1 | 24.6 |
| 1586 | WCMC-0014 | 2022;10 | 25.1 | 24.9 |
| 1587 | WCMC-0016 | 2022;10 | 30   | 29.6 |
| 1588 | WCMC-0021 | 2022;11 | 20   | 19.9 |
| 1589 | WCMC-0023 | 2022;11 | 21.4 | 21.5 |
| 1590 | WCMC-0024 | 2022;11 | 21.8 | 21.6 |
| 1591 | WCMC-0025 | 2022;11 | 24.4 | 24.2 |
| 1592 | WCMC-0026 | 2022;11 | 17.9 | 17.8 |
| 1593 | WCMC-0029 | 2022;11 | 28.2 | 27.7 |
| 1594 | WCMC-0031 | 2022;11 | 16.4 | 16.9 |
| 1595 | WCMC-0032 | 2022;11 | 23.5 | 23.5 |
| 1596 | WCMC-0036 | 2022;12 | 15.5 | 15.5 |
| 1597 | WCMC-0037 | 2022;12 | 26.3 | 25.7 |
| 1598 | WCMC-0040 | 2022;12 | 27.5 | 27.1 |
| 1599 | WCMC-0041 | 2022;12 | 19.2 | 18.8 |
| 1600 | WCMC-0042 | 2022;12 | 27.7 | 27.3 |
| 1601 | WCMC-0044 | 2022;12 | 24.8 | 24.4 |
| 1602 | WCMC-0046 | 2022;12 | 25.2 | 25   |
| 1603 | WCMC-0047 | 2022;12 | 26.5 | 26.3 |
| 1604 | WCMC-0048 | 2022;12 | 27.8 | 27.3 |
| 1605 | WCMC-0049 | 2022;12 | 23.3 | 23.2 |
| 1606 | WCMC-0050 | 2022;12 | 22.2 | 21.9 |
| 1607 | WCMC-0053 | 2022;12 | 26.3 | 26   |
| 1608 | WCMC-0054 | 2022;12 | 18.6 | 18.2 |
| 1609 | WCMC-0056 | 2022;12 | 23.5 | 23   |
| 1610 | WCMC-0058 | 2022;13 | 27.7 | 27.3 |
| 1611 | WCMC-0059 | 2022;13 | 22.2 | 22.4 |
| 1612 | WCMC-0061 | 2022;13 | 20.8 | 20.5 |
| 1613 | WCMC-0063 | 2022;13 | 22.5 | 22.4 |
| 1614 | WCMC-0066 | 2022;13 | 23.6 | 23.4 |
| 1615 | WCMC-0067 | 2022;13 | 26.6 | 26.2 |
| 1616 | WCMC-0069 | 2022;13 | 16.3 | 16.3 |
| 1617 | WCMC-0070 | 2022;13 | 24   | 24.1 |
| 1618 | WCMC-0073 | 2022;13 | 17   | 16.9 |
| 1619 | WCMC-0074 | 2022;13 | 24.2 | 23.9 |
| 1620 | WCMC-0077 | 2022;13 | 24.3 | 23.9 |
| 1621 | WCMC-0078 | 2022;13 | 20.3 | 20   |
| 1622 | WCMC-0079 | 2022;13 | 20   | 19.9 |
| 1623 | WCMC-0080 | 2022;13 | 19.8 | 19.5 |
| 1624 | WCMC-0082 | 2022;13 | 20   | 19.9 |
| 1625 | WCMC-0083 | 2022;13 | 25.4 | 24.9 |
| 1626 | WCMC-0089 | 2022;14 | 27.3 | 27.1 |
| 1627 | WCMC-0090 | 2022;14 | 17.2 | 17.6 |
| 1628 | WCMC-0092 | 2022;14 | 27.5 | 27.2 |
| A     | B             | C    | D    | E    | F    |
|-------|---------------|------|------|------|------|
| 1629  | WCMC-0096     | 2022;14 | 25.4 | 25.2 |
| 1630  | WCMC-0099     | 2022;14 | 26   | 25.7 |
| 1631  | WCMC-0101     | 2022;14 | 20.1 | 19.7 |
| 1632  | WCMC-0105     | 2022;14 | 27.7 | 27.5 |
| 1633  | WCMC-0106     | 2022;14 | 29.9 | 29.4 |
| 1634  | WCMC-0108     | 2022;14 | 19.6 | 19.2 |
| 1635  | WCMC-0113     | 2022;14 | 23.5 | 23.2 |
| 1636  | WCMC-0114     | 2022;14 | 19.4 | 19.2 |
| 1637  | WCMC-0117     | 2022;15 | 20.5 | 20.4 |
| 1638  | WCMC-0119     | 2022;15 | 21.9 | 21.6 |
| 1639  | WCMC-0087     | 2022;14 | 26.8 | 29.9 |
| 1640  | WCMC-0093     | 2022;14 | 26.8 | 29.9 |
| 1641  | Penn101       | 2022;12 | 35.2 | 34.3 |
| 1642  | Penn107       | 2022;12 | 31   | 30.4 |
| 1643  | Penn108       | 2022;12 | 34.4 | 33.3 |
| 1644  | Penn11        | 2022;10 | 34.6 | 33.1 |
| 1645  | Penn124       | 2022;12 | 35   | 33.8 |
| 1646  | Penn128       | 2022;13 | 31.1 | 30.2 |
| 1647  | Penn13        | 2022;10 | 35.7 | 34.5 |
| 1648  | Penn144       | 2022;13 | 31.1 | 31.6 |
| 1649  | Penn145       | 2022;13 | 31   | 30.5 |
| 1650  | Penn148       | 2022;13 | 36.6 | 35.3 |
| 1651  | Penn149       | 2022;13 | 30.4 | 29.9 |
| 1652  | Penn15        | 2022;10 | 33.2 | 32   |
| 1653  | Penn156       | 2022;13 | 33.8 | 31.9 |
| 1654  | Penn168       | 2022;13 | 32   | 33.2 |
| 1655  | Penn171       | 2022;13 | 32.2 | 30.6 |
| 1656  | Penn181       | 2022;13 | 32.6 | 32   |
| 1657  | Penn184       | 2022;13 | 35   | 33.9 |
| 1658  | Penn19        | 2022;10 | 35.6 | 33.3 |
| 1659  | Penn191       | 2022;13 | 34.2 | 34.6 |
| 1660  | Penn196       | 2022;13 | 33.7 | 32.8 |
| 1661  | Penn207       | 2022;14 | 33.2 | 32   |
| 1662  | Penn209       | 2022;14 | 32.8 | 32   |
| 1663  | Penn211       | 2022;14 | 36.3 | 34.3 |
| 1664  | Penn213       | 2022;14 | 31.6 | 31   |
| 1665  | Penn218       | 2022;14 | 35.1 | 34.1 |
| 1666  | Penn228       | 2022;14 | 30.9 | 32.3 |
| 1667  | Penn229       | 2022;14 | 30.7 | 32.7 |
| 1668  | Penn240       | 2022;14 | 31.7 | 30.8 |
| 1669  | Penn249       | 2022;14 | 33.5 | 32.2 |
| 1670  | Penn25        | 2022;10 | 35.7 | 36   |
| 1671  | Penn251       | 2022;14 | 32.2 | 31.7 |
| 1672  | Penn254       | 2022;14 | 33.9 | 33.2 |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 1673 | Penn26 | 2022;10 | 33.2 | 32 |
| 1674 | Penn260 | 2022;14 | 32.2 | 31.4 |
| 1675 | Penn262 | 2022;14 | 33.1 | 31.8 |
| 1676 | Penn265 | 2022;14 | 32.6 | 31.3 |
| 1677 | Penn273 | 2022;14 | 31.3 | 33 |
| 1678 | Penn278 | 2022;14 | 35.6 | 34.3 |
| 1679 | Penn279 | 2022;14 | 32.2 | 31.1 |
| 1680 | Penn28 | 2022;10 | 37.5 | 33.2 |
| 1681 | Penn281 | 2022;15 | 35 | 34.6 |
| 1682 | Penn286 | 2022;15 | 35.8 | 34.4 |
| 1683 | Penn291 | 2022;15 | 30.8 | 30 |
| 1684 | Penn292 | 2022;15 | 30.5 | 31.2 |
| 1685 | Penn297 | 2022;15 | 38.1 | 34.7 |
| 1686 | Penn3 | 2022;10 | 33.5 | 31.5 |
| 1687 | Penn30 | 2022;10 | 31.4 | 30.2 |
| 1688 | Penn318 | 2022;15 | 35.6 | 34.4 |
| 1689 | Penn33 | 2022;10 | 33.4 | 32.7 |
| 1690 | Penn337 | 2022;15 | 33.1 | 34.8 |
| 1691 | Penn340 | 2022;15 | 34 | 32.7 |
| 1692 | Penn345 | 2022;15 | 31.8 | 33.6 |
| 1693 | Penn347 | 2022;15 | 32.4 | 31.1 |
| 1694 | Penn350 | 2022;15 | 31.6 | 30.3 |
| 1695 | Penn364 | 2022;15 | 35.7 | 33.7 |
| 1696 | Penn365 | 2022;15 | 33.1 | 32.2 |
| 1697 | Penn368 | 2022;15 | 33.4 | 32.4 |
| 1698 | Penn370 | 2022;15 | 35.5 | 34.4 |
| 1699 | Penn371 | 2022;15 | 34.2 | 32.9 |
| 1700 | Penn43 | 2022;11 | 33.6 | 33.1 |
| 1701 | Penn45 | 2022;11 | 35.7 | 35.4 |
| 1702 | Penn49 | 2022;11 | 30.6 | 29.6 |
| 1703 | Penn52 | 2022;11 | 34 | 32.6 |
| 1704 | Penn54 | 2022;11 | 35.9 | 33.7 |
| 1705 | Penn55 | 2022;11 | 34.2 | 33.2 |
| 1706 | Penn59 | 2022;11 | 33.7 | 32.5 |
| 1707 | Penn60 | 2022;11 | 34.3 | 32.8 |
| 1708 | Penn64 | 2022;11 | 31.3 | 31.2 |
| 1709 | Penn7 | 2022;10 | 32 | 31.1 |
| 1710 | Penn83 | 2022;12 | 33.6 | 32.1 |
| 1711 | Penn95 | 2022;12 | 34.9 | 33.8 |
| 1712 | Penn100 | 2022;12 | 21.3 | 21 |
| 1713 | Penn102 | 2022;12 | 29.7 | 29.3 |
| 1714 | Penn104 | 2022;12 | 21.5 | 21.2 |
| 1715 | Penn105 | 2022;12 | 22.1 | 21.6 |
| 1716 | Penn109 | 2022;12 | 28 | 28.1 |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|    | A     | B      | C   | D   | E   | F   |
|----|-------|--------|-----|-----|-----|-----|
| 1717 | Penn111 | 2022;12 | 20.8 | 20.3 |
| 1718 | Penn113 | 2022;12 | 26.9 | 26.6 |
| 1719 | Penn114 | 2022;12 | 23.4 | 23.1 |
| 1720 | Penn115 | 2022;12 | 24.2 | 23.8 |
| 1721 | Penn117 | 2022;12 | 17.1 | 17   |
| 1722 | Penn118 | 2022;12 | 27.8 | 27.6 |
| 1723 | Penn119 | 2022;12 | 23   | 23   |
| 1724 | Penn121 | 2022;12 | 26   | 25.9 |
| 1725 | Penn122 | 2022;12 | 16.8 | 16.5 |
| 1726 | Penn125 | 2022;12 | 25.7 | 25.3 |
| 1727 | Penn126 | 2022;13 | 21.7 | 22.1 |
| 1728 | Penn129 | 2022;13 | 20.2 | 20   |
| 1729 | Penn130 | 2022;13 | 19.1 | 18.8 |
| 1730 | Penn132 | 2022;13 | 19.8 | 19.4 |
| 1731 | Penn133 | 2022;13 | 20.6 | 20.2 |
| 1732 | Penn134 | 2022;13 | 22   | 21.5 |
| 1733 | Penn136 | 2022;13 | 23.9 | 23.8 |
| 1734 | Penn137 | 2022;13 | 21.7 | 21.5 |
| 1735 | Penn139 | 2022;13 | 18   | 17.8 |
| 1736 | Penn14  | 2022;10 | 29.6 | 29.2 |
| 1737 | Penn140 | 2022;13 | 16.4 | 16.4 |
| 1738 | Penn141 | 2022;13 | 18   | 18.4 |
| 1739 | Penn142 | 2022;13 | 27.6 | 27.3 |
| 1740 | Penn143 | 2022;13 | 18   | 17.8 |
| 1741 | Penn147 | 2022;13 | 24.9 | 24.9 |
| 1742 | Penn151 | 2022;13 | 23.8 | 23.4 |
| 1743 | Penn152 | 2022;13 | 21.6 | 21.4 |
| 1744 | Penn153 | 2022;13 | 29.6 | 29.4 |
| 1745 | Penn155 | 2022;13 | 21   | 21   |
| 1746 | Penn157 | 2022;13 | 20.4 | 20.2 |
| 1747 | Penn158 | 2022;13 | 16.4 | 16.3 |
| 1748 | Penn159 | 2022;13 | 25.5 | 25.3 |
| 1749 | Penn162 | 2022;13 | 23.7 | 23   |
| 1750 | Penn165 | 2022;13 | 21.3 | 21.4 |
| 1751 | Penn167 | 2022;13 | 24.1 | 24   |
| 1752 | Penn170 | 2022;13 | 20.2 | 20.7 |
| 1753 | Penn172 | 2022;13 | 19.1 | 18.9 |
| 1754 | Penn173 | 2022;13 | 17.7 | 17.5 |
| 1755 | Penn174 | 2022;13 | 24.2 | 23.6 |
| 1756 | Penn177 | 2022;13 | 16.7 | 16.7 |
| 1757 | Penn182 | 2022;13 | 17.6 | 17.3 |
| 1758 | Penn186 | 2022;13 | 22.6 | 22.4 |
| 1759 | Penn187 | 2022;13 | 20.6 | 20.5 |
| 1760 | Penn188 | 2022;13 | 28.9 | 28.4 |

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|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| 1761 | Penn190 | 2022;13 | 23.1 | 22.8 |
| 1762 | Penn192 | 2022;13 | 21.4 | 22 |
| 1763 | Penn193 | 2022;13 | 18.9 | 18.5 |
| 1764 | Penn194 | 2022;13 | 27.4 | 27.1 |
| 1765 | Penn195 | 2022;13 | 20.7 | 20.4 |
| 1766 | Penn200 | 2022;13 | 24.8 | 24.4 |
| 1767 | Penn203 | 2022;14 | 29.4 | 29.6 |
| 1768 | Penn204 | 2022;14 | 20.1 | 20.1 |
| 1769 | Penn206 | 2022;14 | 17.4 | 17 |
| 1770 | Penn214 | 2022;14 | 24.9 | 25 |
| 1771 | Penn216 | 2022;14 | 21.1 | 20.7 |
| 1772 | Penn219 | 2022;14 | 23.2 | 23 |
| 1773 | Penn220 | 2022;14 | 27.7 | 27.6 |
| 1774 | Penn221 | 2022;14 | 18 | 18.9 |
| 1775 | Penn222 | 2022;14 | 25 | 24.7 |
| 1776 | Penn224 | 2022;14 | 15.3 | 15.2 |
| 1777 | Penn226 | 2022;14 | 18.3 | 18.1 |
| 1778 | Penn231 | 2022;14 | 18.8 | 18.5 |
| 1779 | Penn234 | 2022;14 | 21 | 20.8 |
| 1780 | Penn238 | 2022;14 | 23.1 | 22.8 |
| 1781 | Penn24 | 2022;10 | 29.1 | 29.2 |
| 1782 | Penn241 | 2022;14 | 17.3 | 17.2 |
| 1783 | Penn242 | 2022;14 | 20.5 | 20.2 |
| 1784 | Penn243 | 2022;14 | 19.9 | 20.1 |
| 1785 | Penn244 | 2022;14 | 17.5 | 17.5 |
| 1786 | Penn246 | 2022;14 | 18.3 | 18.4 |
| 1787 | Penn253 | 2022;14 | 17.3 | 17 |
| 1788 | Penn256 | 2022;14 | 24.4 | 24.2 |
| 1789 | Penn261 | 2022;14 | 26.6 | 25.9 |
| 1790 | Penn263 | 2022;14 | 23 | 22.8 |
| 1791 | Penn267 | 2022;14 | 18 | 17.9 |
| 1792 | Penn268 | 2022;14 | 18.9 | 18.7 |
| 1793 | Penn27 | 2022;10 | 29.6 | 29.1 |
| 1794 | Penn270 | 2022;14 | 16.4 | 16.2 |
| 1795 | Penn271 | 2022;14 | 19.6 | 19.2 |
| 1796 | Penn272 | 2022;14 | 22.7 | 22.5 |
| 1797 | Penn275 | 2022;14 | 24.8 | 24.3 |
| 1798 | Penn276 | 2022;14 | 20.4 | 20.2 |
| 1799 | Penn277 | 2022;14 | 25.1 | 24.5 |
| 1800 | Penn282 | 2022;15 | 18.1 | 17.8 |
| 1801 | Penn284 | 2022;15 | 23.7 | 23.4 |
| 1802 | Penn287 | 2022;15 | 20.8 | 20.7 |
| 1803 | Penn288 | 2022;15 | 25.1 | 24.8 |
| 1804 | Penn289 | 2022;15 | 19.9 | 19.7 |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|   |   |   |   |   |
|---|---|---|---|---|
| A | B   | C | D  | E   |
| 1805 | Penn296 | 2022;15 | 15 | 15.2 |
| 1806 | Penn298 | 2022;15 | 16.9 | 16.6 |
| 1807 | Penn299 | 2022;15 | 15.5 | 15.1 |
| 1808 | Penn302 | 2022;15 | 30 | 31.9 |
| 1809 | Penn303 | 2022;15 | 24.2 | 24 |
| 1810 | Penn305 | 2022;15 | 25 | 24.9 |
| 1811 | Penn306 | 2022;15 | 18.2 | 18.1 |
| 1812 | Penn307 | 2022;15 | 16.7 | 16.2 |
| 1813 | Penn308 | 2022;15 | 19.2 | 19.1 |
| 1814 | Penn313 | 2022;15 | 17.3 | 16.8 |
| 1815 | Penn315 | 2022;15 | 28.3 | 28.9 |
| 1816 | Penn319 | 2022;15 | 16.8 | 16.5 |
| 1817 | Penn325 | 2022;15 | 18.8 | 18.4 |
| 1818 | Penn326 | 2022;15 | 26.7 | 26.3 |
| 1819 | Penn327 | 2022;15 | 25 | 24.7 |
| 1820 | Penn331 | 2022;15 | 21.2 | 21.1 |
| 1821 | Penn334 | 2022;15 | 24.4 | 23.9 |
| 1822 | Penn352 | 2022;15 | 17.8 | 17.4 |
| 1823 | Penn353 | 2022;15 | 25.8 | 25.8 |
| 1824 | Penn358 | 2022;15 | 27.8 | 27.6 |
| 1825 | Penn36 | 2022;10 | 28.9 | 28.1 |
| 1826 | Penn360 | 2022;15 | 22.6 | 22.4 |
| 1827 | Penn363 | 2022;15 | 23.1 | 22.8 |
| 1828 | Penn369 | 2022;15 | 23.7 | 23.5 |
| 1829 | Penn372 | 2022;15 | 24.2 | 23.7 |
| 1830 | Penn44 | 2022;11 | 25.8 | 25.6 |
| 1831 | Penn58 | 2022;11 | 18.9 | 18.8 |
| 1832 | Penn6 | 2022;10 | 24.8 | 24.4 |
| 1833 | Penn66 | 2022;11 | 17.2 | 16.9 |
| 1834 | Penn67 | 2022;11 | 27.8 | 27.7 |
| 1835 | Penn74 | 2022;12 | 29.6 | 29.2 |
| 1836 | Penn81 | 2022;12 | 29.6 | 28.9 |
| 1837 | Penn86 | 2022;12 | 18 | 17.9 |
| 1838 | Penn87 | 2022;12 | 29.1 | 28.6 |
| 1839 | Penn89 | 2022;12 | 29.7 | 29.6 |
| 1840 | Penn90 | 2022;12 | 20.1 | 20.1 |
| 1841 | Penn91 | 2022;12 | 20.7 | 21.2 |
| 1842 | Penn93 | 2022;12 | 28.1 | 27.4 |
| 1843 | Penn96 | 2022;12 | 21.8 | 21.6 |
| 1844 | Penn98 | 2022;12 | 18.9 | 18.7 |
| 1845 | Penn99 | 2022;12 | 17.4 | 17.2 |
| 1846 | Penn110 | 2022;12 | 22.6 | 26.3 |
| 1847 | Penn112 | 2022;12 | 19.8 | 23.7 |
| 1848 | Penn116 | 2022;12 | 28.2 | 31.2 |

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|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 1849 | Penn123 | 2022;12 | 29.5 | 31.7 |   |
| 1850 | Penn131 | 2022;13 | 17.1 | 20.3 |   |
| 1851 | Penn135 | 2022;13 | 16.2 | 19.1 |   |
| 1852 | Penn138 | 2022;13 | 20.1 | 24.2 |   |
| 1853 | Penn150 | 2022;13 | 18.5 | 21.6 |   |
| 1854 | Penn154 | 2022;13 | 17.3 | 20.9 |   |
| 1855 | Penn160 | 2022;13 | 20.9 | 24.4 |   |
| 1856 | Penn161 | 2022;13 | 27.7 | 30.6 |   |
| 1857 | Penn163 | 2022;13 | 20.8 | 25.0 |   |
| 1858 | Penn164 | 2022;13 | 20.8 | 24.7 |   |
| 1859 | Penn166 | 2022;13 | 16.2 | 19.9 |   |
| 1860 | Penn169 | 2022;13 | 22.5 | 26.2 |   |
| 1861 | Penn175 | 2022;13 | 23.0 | 26.7 |   |
| 1862 | Penn176 | 2022;13 | 17.6 | 21.4 |   |
| 1863 | Penn178 | 2022;13 | 27.2 | 30.1 |   |
| 1864 | Penn179 | 2022;13 | 19.2 | 23.4 |   |
| 1865 | Penn180 | 2022;13 | 17.0 | 20.4 |   |
| 1866 | Penn183 | 2022;13 | 18.4 | 22.0 |   |
| 1867 | Penn185 | 2022;13 | 20.7 | 24.5 |   |
| 1868 | Penn197 | 2022;13 | 26.0 | 29.4 |   |
| 1869 | Penn199 | 2022;13 | 20.6 | 24.7 |   |
| 1870 | Penn201 | 2022;14 | 17.8 | 21.7 |   |
| 1871 | Penn202 | 2022;14 | 17.5 | 21.3 |   |
| 1872 | Penn205 | 2022;14 | 30.0 | 32.6 |   |
| 1873 | Penn208 | 2022;14 | 17.5 | 21.3 |   |
| 1874 | Penn210 | 2022;14 | 18.2 | 22.2 |   |
| 1875 | Penn212 | 2022;14 | 19.1 | 23.5 |   |
| 1876 | Penn217 | 2022;14 | 16.9 | 21.0 |   |
| 1877 | Penn223 | 2022;14 | 28.9 | 31.1 |   |
| 1878 | Penn225 | 2022;14 | 17.8 | 22.0 |   |
| 1879 | Penn230 | 2022;14 | 29.6 | 32.0 |   |
| 1880 | Penn232 | 2022;14 | 15.8 | 19.8 |   |
| 1881 | Penn233 | 2022;14 | 19.4 | 23.2 |   |
| 1882 | Penn235 | 2022;14 | 18.2 | 22.0 |   |
| 1883 | Penn236 | 2022;14 | 18.8 | 22.8 |   |
| 1884 | Penn237 | 2022;14 | 21.5 | 24.9 |   |
| 1885 | Penn239 | 2022;14 | 21.8 | 25.5 |   |
| 1886 | Penn245 | 2022;14 | 18.6 | 22.1 |   |
| 1887 | Penn248 | 2022;14 | 22.6 | 25.9 |   |
| 1888 | Penn252 | 2022;14 | 17.3 | 21.4 |   |
| 1889 | Penn255 | 2022;14 | 19.6 | 23.9 |   |
| 1890 | Penn257 | 2022;14 | 28.3 | 30.9 |   |
| 1891 | Penn258 | 2022;14 | 23.6 | 27.3 |   |
| 1892 | Penn259 | 2022;14 | 17.4 | 21.2 |   |

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Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|    | A       | B     | C    | D    | E    | F    |
|----|---------|-------|------|------|------|------|
| 1893| Penn264 | 2022;14| 19.8 | 23.4 |
| 1894| Penn266 | 2022;14| 21.4 | 25.4 |
| 1895| Penn274 | 2022;14| 25.6 | 29.1 |
| 1896| Penn283 | 2022;15| 17.1 | 20.6 |
| 1897| Penn290 | 2022;15| 17.2 | 21  |
| 1898| Penn293 | 2022;15| 20  | 23.8 |
| 1899| Penn300 | 2022;15| 19.2 | 23.2 |
| 1900| Penn301 | 2022;15| 21.1 | 25  |
| 1901| Penn304 | 2022;15| 18  | 21.6 |
| 1902| Penn309 | 2022;15| 19.3 | 23.4 |
| 1903| Penn310 | 2022;15| 15.5 | 19.1 |
| 1904| Penn311 | 2022;15| 18.7 | 22.6 |
| 1905| Penn312 | 2022;15| 19.5 | 23.3 |
| 1906| Penn314 | 2022;15| 19.3 | 22.8 |
| 1907| Penn316 | 2022;15| 17.1 | 20.9 |
| 1908| Penn317 | 2022;15| 20.5 | 24.5 |
| 1909| Penn321 | 2022;15| 20.1 | 24.1 |
| 1910| Penn323 | 2022;15| 20.2 | 24.3 |
| 1911| Penn324 | 2022;15| 27.2 | 30.4 |
| 1912| Penn328 | 2022;15| 18.2 | 22.4 |
| 1913| Penn332 | 2022;15| 25.4 | 28.5 |
| 1914| Penn333 | 2022;15| 29.2 | 31.6 |
| 1915| Penn335 | 2022;15| 20.5 | 24.5 |
| 1916| Penn336 | 2022;15| 19.1 | 23.2 |
| 1917| Penn341 | 2022;15| 23.4 | 27  |
| 1918| Penn342 | 2022;15| 24.4 | 27.9 |
| 1919| Penn343 | 2022;15| 22.6 | 26.3 |
| 1920| Penn344 | 2022;15| 23.9 | 26.8 |
| 1921| Penn346 | 2022;15| 17.5 | 21.4 |
| 1922| Penn348 | 2022;15| 22.1 | 26.1 |
| 1923| Penn349 | 2022;15| 22.2 | 26.3 |
| 1924| Penn351 | 2022;15| 25.8 | 28.8 |
| 1925| Penn355 | 2022;15| 17.7 | 22  |
| 1926| Penn356 | 2022;15| 16.1 | 20  |
| 1927| Penn357 | 2022;15| 18.7 | 22.3 |
| 1928| Penn359 | 2022;15| 25.8 | 28.7 |
| 1929| Penn361 | 2022;15| 21  | 24.8 |
| 1930| Penn362 | 2022;15| 17.9 | 22  |
| 1931| Penn366 | 2022;15| 20.8 | 24.9 |
| 1932| Penn367 | 2022;15| 20.5 | 24.4 |
| 1933| Penn92  | 2022;12| 26.6 | 29.6 |
| 1934| MSK 36  | 2022;11| 37.3 | 34.88|
| 1935| MSK 42  | 2022;12| 34.1 | 32.84|
| 1936| MSK 44  | 2022;13| 35.65| 34.15|
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|    | A   | B               | C   | D   | E   | F   |
|----|-----|-----------------|-----|-----|-----|-----|
| 1937 | MSK 46 | 2022;13 | 30.05 | 29.5 |     |     |
| 1938 | MSK 47 | 2022;13 | 33.42 | 31.29 |     |     |
| 1939 | MSK 53 | 2022;13 | 33.33 | 31.86 |     |     |
| 1940 | MSK 56 | 2022;13 | 33  | 30.45 |     |     |
| 1941 | MSK 63 | 2022;14 | 37.64 | 36.27 |     |     |
| 1942 | MSK 74 | 2022;14 | 36.79 | 35.98 |     |     |
| 1943 | MSK 76 | 2022;14 | 33.05 | 31.66 |     |     |
| 1944 | MSK 80 | 2022;15 | 30.03 | 29.25 |     |     |
| 1945 | MSK 83 | 2022;15 | 33.61 | 31.89 |     |     |
| 1946 | MSK 84 | 2022;15 | 30.21 | 28.75 |     |     |
| 1947 | MSK 90 | 2022;15 | 32.98 | 31.12 |     |     |
| 1948 | MSK 96 | 2022;15 | 31.59 | 29.79 |     |     |
| 1949 | MSK 77 | 2022;15 | 28.54 | 27.69 |     |     |
| 1950 | MSK 78 | 2022;15 | 16.27 | 16.02 |     |     |
| 1951 | MSK 79 | 2022;15 | 22.18 | 21.76 |     |     |
| 1952 | MSK 81 | 2022;15 | 25.49 | 25.4 |     |     |
| 1953 | MSK 82 | 2022;15 | 27.94 | 27.01 |     |     |
| 1954 | MSK 85 | 2022;15 | 29.42 | 28.02 |     |     |
| 1955 | MSK 86 | 2022;15 | 20.65 | 20.24 |     |     |
| 1956 | MSK 87 | 2022;15 | 26.95 | 26.24 |     |     |
| 1957 | MSK 88 | 2022;15 | 24.73 | 24.13 |     |     |
| 1958 | MSK 91 | 2022;15 | 18.19 | 17.83 |     |     |
| 1959 | MSK 92 | 2022;15 | 26.67 | 26.06 |     |     |
| 1960 | MSK 93 | 2022;15 | 21.45 | 21.26 |     |     |
| 1961 | MSK 94 | 2022;15 | 26.18 | 25.42 |     |     |
| 1962 | MSK 95 | 2022;15 | 19.57 | 19.11 |     |     |
| 1963 | MSK 97 | 2022;15 | 15.27 | 15.16 |     |     |
| 1964 | MSK 98 | 2022;15 | 24.98 | 24.34 |     |     |
| 1965 | MSK 17 | 2022;15 | 16.84 | 20.87 |     |     |
| 1966 | MSK 18 | 2022;15 | 21.87 | 25.74 |     |     |
| 1967 | MSK 19 | 2022;15 | 19.94 | 23.71 |     |     |
| 1968 | MSK 20 | 2022;15 | 17.98 | 21.76 |     |     |
| 1969 | MSK 21 | 2022;15 | 18.66 | 23 |     |     |
| 1970 | MSK 22 | 2022;15 | 26.92 | 29.45 |     |     |
| 1971 | MSK 89 | 2022;15 | 23.88 | 27.41 |     |     |
| 1972 | WU110 | 2022;12 | 31.9 | 32.63 |     |     |
| 1973 | WU115 | 2022;12 | 31.74 | 32.47 |     |     |
| 1974 | WU117 | 2022;12 | 30.56 | 31.09 |     |     |
| 1975 | WU118 | 2022;12 | 32.6 | 33.51 |     |     |
| 1976 | WU120 | 2022;12 | 34.26 | 35.15 |     |     |
| 1977 | WU138 | 2022;12 | 30.29 | 31.1 |     |     |
| 1978 | WU148 | 2022;13 | 32.44 | 31.44 |     |     |
| 1979 | WU152 | 2022;13 | 31.18 | 31.88 |     |     |
| 1980 | WU156 | 2022;13 | 35.11 | 36.3 |     |     |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

| Year | Sample | Year | Ct A | Ct B | Ct C | Ct D | Ct E | Ct F |
|------|--------|------|------|------|------|------|------|------|
| 1981 | WU167  | 2022;13 | 34.08 |      |      |      |      |      |
| 1982 | WU17   | 2022;10 | 33.57 |      |      |      |      |      |
| 1983 | WU175  | 2022;13 | 33.36 |      |      |      |      |      |
| 1984 | WU183  | 2022;13 | 36.03 |      |      |      |      |      |
| 1985 | WU195  | 2022;13 | 34.03 |      |      |      |      |      |
| 1986 | WU196  | 2022;13 | 34.35 |      |      |      |      |      |
| 1987 | WU197  | 2022;13 | 34.21 |      |      |      |      |      |
| 1988 | WU198  | 2022;13 | 35.77 |      |      |      |      |      |
| 1989 | WU199  | 2022;13 | 31.12 |      |      |      |      |      |
| 1990 | WU2    | 2022;10 | 35.39 |      |      |      |      |      |
| 1991 | WU20   | 2022;10 | 35.66 |      |      |      |      |      |
| 1992 | WU212  | 2022;13 | 31.28 |      |      |      |      |      |
| 1993 | WU220  | 2022;13 | 34.03 |      |      |      |      |      |
| 1994 | WU227  | 2022;13 | 33.39 |      |      |      |      |      |
| 1995 | WU228  | 2022;13 | 35.55 |      |      |      |      |      |
| 1996 | WU230  | 2022;13 | 35.51 |      |      |      |      |      |
| 1997 | WU235  | 2022;13 | 32.6  |      |      |      |      |      |
| 1998 | WU236  | 2022;13 | 31.26 |      |      |      |      |      |
| 1999 | WU237  | 2022;13 | 33.44 |      |      |      |      |      |
| 2000 | WU253  | 2022;13 | 30.54 |      |      |      |      |      |
| 2001 | WU261  | 2022;13 | 34.2  |      |      |      |      |      |
| 2002 | WU278  | 2022;14 | 34.87 |      |      |      |      |      |
| 2003 | WU279  | 2022;14 | 33.13 |      |      |      |      |      |
| 2004 | WU295  | 2022;14 | 32.95 |      |      |      |      |      |
| 2005 | WU296  | 2022;14 | 33.17 |      |      |      |      |      |
| 2006 | WU3    | 2022;10 | 35.03 |      |      |      |      |      |
| 2007 | WU30   | 2022;10 | 33.96 |      |      |      |      |      |
| 2008 | WU300  | 2022;14 | 31.68 |      |      |      |      |      |
| 2009 | WU306  | 2022;14 | 35.33 |      |      |      |      |      |
| 2010 | WU319  | 2022;15 | 35.88 |      |      |      |      |      |
| 2011 | WU320  | 2022;15 | 35.33 |      |      |      |      |      |
| 2012 | WU321  | 2022;15 | 34.2  |      |      |      |      |      |
| 2013 | WU324  | 2022;15 | 30.35 |      |      |      |      |      |
| 2014 | WU326  | 2022;15 | 31.02 |      |      |      |      |      |
| 2015 | WU327  | 2022;15 | 35.62 |      |      |      |      |      |
| 2016 | WU331  | 2022;15 | 31.88 |      |      |      |      |      |
| 2017 | WU34   | 2022;10 | 33.5  |      |      |      |      |      |
| 2018 | WU44   | 2022;10 | 34.06 |      |      |      |      |      |
| 2019 | WU54   | 2022;10 | 30.2  |      |      |      |      |      |
| 2020 | WU55   | 2022;10 | 36.1  |      |      |      |      |      |
| 2021 | WU57   | 2022;10 | 30.66 |      |      |      |      |      |
| 2022 | WU58   | 2022;10 | 36.21 |      |      |      |      |      |
| 2023 | WU59   | 2022;10 | 38.14 |      |      |      |      |      |
| 2024 | WU6    | 2022;10 | 36    |      |      |      |      |      |

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|    | A  | B              | C   | D   | E   | F   |
|----|----|----------------|-----|-----|-----|-----|
| 2025 | WU68 | 2022;11         | 35.21 | 35.1 |     |     |
| 2026 | WU7  | 2022;10         | 34.84 | 32.98 |    |     |
| 2027 | WU73 | 2022;11         | 35.22 | 32.46 |    |     |
| 2028 | WU74 | 2022;11         | 36.71 | 37.55 |    |     |
| 2029 | WU75 | 2022;11         | 33.85 | 34.94 |    |     |
| 2030 | WU76 | 2022;11         | 31.68 | 32.69 |    |     |
| 2031 | WU78 | 2022;11         | 33.61 | 34.84 |    |     |
| 2032 | WU8  | 2022;10         | 37.09 | 34.17 |    |     |
| 2033 | WU87 | 2022;11         | 32.91 | 34.2  |    |     |
| 2034 | WU91 | 2022;11         | 34.15 | 33.29 |    |     |
| 2035 | WU92 | 2022;11         | 33.64 | 34.74 |    |     |
| 2036 | WU99 | 2022;12         | 33.77 | 32.51 |    |     |
| 2037 | WU10 | 2022;10         | 26.02 | 25.71 |    |     |
| 2038 | WU10 | 2022;10         | 19.94 | 20.11 |    |     |
| 2039 | WU100| 2022;12        | 19.52 | 19.3  |    |     |
| 2040 | WU101| 2022;12        | 16.28 | 16.1  |    |     |
| 2041 | WU102| 2022;12        | 28.72 | 29.26 |    |     |
| 2042 | WU104| 2022;12        | 15.78 | 15.93 |    |     |
| 2043 | WU105| 2022;12        | 21.42 | 22.27 |    |     |
| 2044 | WU106| 2022;12        | 18.12 | 18.64 |    |     |
| 2045 | WU107| 2022;12        | 19.52 | 20.18 |    |     |
| 2046 | WU108| 2022;12        | 17.15 | 17.5  |    |     |
| 2047 | WU109| 2022;12        | 18.58 | 19.09 |    |     |
| 2048 | WU11 | 2022;10        | 22.51 | 22.86 |    |     |
| 2049 | WU111| 2022;12        | 19.84 | 20.1  |    |     |
| 2050 | WU112| 2022;12        | 21.79 | 22.17 |    |     |
| 2051 | WU113| 2022;12        | 22.96 | 23.31 |    |     |
| 2052 | WU114| 2022;12        | 26.8  | 26.92 |    |     |
| 2053 | WU116| 2022;12        | 18.78 | 19.12 |    |     |
| 2054 | WU119| 2022;12        | 19.06 | 18.79 |    |     |
| 2055 | WU12 | 2022;10        | 25.52 | 25.48 |    |     |
| 2056 | WU121| 2022;12        | 17.97 | 17.53 |    |     |
| 2057 | WU123| 2022;12        | 25.08 | 25.31 |    |     |
| 2058 | WU124| 2022;12        | 20.06 | 20.45 |    |     |
| 2059 | WU125| 2022;12        | 25.68 | 25.75 |    |     |
| 2060 | WU126| 2022;12        | 16.08 | 16.35 |    |     |
| 2061 | WU127| 2022;12        | 24.51 | 24.28 |    |     |
| 2062 | WU128| 2022;12        | 18.49 | 18.75 |    |     |
| 2063 | WU129| 2022;12        | 19.93 | 20.24 |    |     |
| 2064 | WU130| 2022;12        | 20.03 | 20.32 |    |     |
| 2065 | WU131| 2022;12        | 17.99 | 18.32 |    |     |
| 2066 | WU132| 2022;12        | 20.05 | 20.06 |    |     |
| 2067 | WU133| 2022;12        | 23.49 | 23.5  |    |     |
| 2068 | WU134| 2022;12        | 20.64 | 20.66 |    |     |
|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| 2069 | WU135 | 2022;12 | 18.09 | 18.54 |   |   |
| 2070 | WU136 | 2022;12 | 19.43 | 20.05 |   |   |
| 2071 | WU137 | 2022;12 | 17.99 | 18.76 |   |   |
| 2072 | WU139 | 2022;12 | 24.02 | 24.33 |   |   |
| 2073 | WU140 | 2022;12 | 16.66 | 17.03 |   |   |
| 2074 | WU141 | 2022;12 | 25.74 | 25.78 |   |   |
| 2075 | WU142 | 2022;12 | 19.62 | 19.73 |   |   |
| 2076 | WU143 | 2022;12 | 15.87 | 16.21 |   |   |
| 2077 | WU144 | 2022;12 | 21.87 | 21.92 |   |   |
| 2078 | WU145 | 2022;12 | 24.18 | 24.45 |   |   |
| 2079 | WU146 | 2022;12 | 18.84 | 19.45 |   |   |
| 2080 | WU147 | 2022;13 | 24.91 | 24.68 |   |   |
| 2081 | WU149 | 2022;13 | 24.54 | 24.74 |   |   |
| 2082 | WU150 | 2022;13 | 21.46 | 21.78 |   |   |
| 2083 | WU151 | 2022;13 | 26.24 | 26.12 |   |   |
| 2084 | WU153 | 2022;13 | 22.85 | 23.11 |   |   |
| 2085 | WU154 | 2022;13 | 28.16 | 28.29 |   |   |
| 2086 | WU155 | 2022;13 | 20.43 | 20.06 |   |   |
| 2087 | WU157 | 2022;13 | 22.53 | 22.63 |   |   |
| 2088 | WU158 | 2022;13 | 18.16 | 18.59 |   |   |
| 2089 | WU159 | 2022;13 | 19.7 | 20.05 |   |   |
| 2090 | WU16 | 2022;10 | 23.45 | 23.01 |   |   |
| 2091 | WU160 | 2022;13 | 15.92 | 16.3 |   |   |
| 2092 | WU162 | 2022;13 | 21.48 | 21.97 |   |   |
| 2093 | WU163 | 2022;13 | 29.05 | 29.48 |   |   |
| 2094 | WU164 | 2022;13 | 19.62 | 19.67 |   |   |
| 2095 | WU166 | 2022;13 | 18.46 | 18.81 |   |   |
| 2096 | WU168 | 2022;13 | 17.2 | 17.47 |   |   |
| 2097 | WU169 | 2022;13 | 25.44 | 25.08 |   |   |
| 2098 | WU172 | 2022;13 | 19.24 | 19.8 |   |   |
| 2099 | WU173 | 2022;13 | 17.64 | 18 |   |   |
| 2100 | WU174 | 2022;13 | 18.5 | 18.68 |   |   |
| 2101 | WU176 | 2022;13 | 23.8 | 24.18 |   |   |
| 2102 | WU178 | 2022;13 | 21.09 | 21.5 |   |   |
| 2103 | WU179 | 2022;13 | 26.32 | 26.45 |   |   |
| 2104 | WU180 | 2022;13 | 21.56 | 21.69 |   |   |
| 2105 | WU181 | 2022;13 | 25.69 | 25.85 |   |   |
| 2106 | WU184 | 2022;13 | 18.08 | 18.78 |   |   |
| 2107 | WU185 | 2022;13 | 20.43 | 20.89 |   |   |
| 2108 | WU186 | 2022;13 | 23.8 | 24.95 |   |   |
| 2109 | WU187 | 2022;13 | 23.19 | 24.07 |   |   |
| 2110 | WU189 | 2022;13 | 19.13 | 19.98 |   |   |
| 2111 | WU19 | 2022;10 | 22.21 | 22.75 |   |   |
| 2112 | WU190 | 2022;13 | 24.89 | 25.74 |   |   |
|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| 2113 | WU191 | 2022;13 | 19.04 | 19.65 |    |    |
| 2114 | WU193 | 2022;13 | 29.95 | 30.99 |    |    |
| 2115 | WU194 | 2022;13 | 29.44 | 30.68 |    |    |
| 2116 | WU202 | 2022;13 | 20.49 | 20.92 |    |    |
| 2117 | WU203 | 2022;13 | 21.55 | 21.9  |    |    |
| 2118 | WU205 | 2022;13 | 18.7  | 19.42 |    |    |
| 2119 | WU206 | 2022;13 | 27.59 | 28.48 |    |    |
| 2120 | WU207 | 2022;13 | 19.5  | 20.07 |    |    |
| 2121 | WU208 | 2022;13 | 18.27 | 18.81 |    |    |
| 2122 | WU209 | 2022;13 | 17.58 | 17.94 |    |    |
| 2123 | WU21  | 2022;10 | 22.55 | 22.81 |    |    |
| 2124 | WU210 | 2022;13 | 22.83 | 23.34 |    |    |
| 2125 | WU215 | 2022;13 | 23.85 | 24.16 |    |    |
| 2126 | WU217 | 2022;13 | 28.63 | 29.2  |    |    |
| 2127 | WU22  | 2022;10 | 27.68 | 28.34 |    |    |
| 2128 | WU221 | 2022;13 | 16.04 | 16.64 |    |    |
| 2129 | WU222 | 2022;13 | 16.98 | 17.59 |    |    |
| 2130 | WU223 | 2022;13 | 22.4  | 22.56 |    |    |
| 2131 | WU224 | 2022;13 | 27.95 | 28.5  |    |    |
| 2132 | WU225 | 2022;13 | 24.29 | 24.63 |    |    |
| 2133 | WU229 | 2022;13 | 25.24 | 25.23 |    |    |
| 2134 | WU23  | 2022;10 | 22.99 | 23.46 |    |    |
| 2135 | WU231 | 2022;13 | 20.69 | 21.44 |    |    |
| 2136 | WU232 | 2022;13 | 26.93 | 26.88 |    |    |
| 2137 | WU233 | 2022;13 | 16.05 | 16.18 |    |    |
| 2138 | WU234 | 2022;13 | 25.97 | 26.19 |    |    |
| 2139 | WU240 | 2022;13 | 16.67 | 16.82 |    |    |
| 2140 | WU241 | 2022;13 | 18.69 | 18.96 |    |    |
| 2141 | WU242 | 2022;13 | 18.18 | 18.44 |    |    |
| 2142 | WU244 | 2022;13 | 17.87 | 18.08 |    |    |
| 2143 | WU245 | 2022;13 | 21.98 | 21.87 |    |    |
| 2144 | WU246 | 2022;13 | 27.34 | 27.7  |    |    |
| 2145 | WU247 | 2022;13 | 27.26 | 27.66 |    |    |
| 2146 | WU248 | 2022;13 | 24.22 | 24.28 |    |    |
| 2147 | WU249 | 2022;13 | 27.36 | 27.48 |    |    |
| 2148 | WU25  | 2022;10 | 22.26 | 22.76 |    |    |
| 2149 | WU250 | 2022;13 | 25.55 | 25.73 |    |    |
| 2150 | WU251 | 2022;13 | 17.78 | 17.95 |    |    |
| 2151 | WU254 | 2022;13 | 19.33 | 19.4  |    |    |
| 2152 | WU256 | 2022;13 | 18.21 | 18.47 |    |    |
| 2153 | WU257 | 2022;13 | 17.55 | 17.92 |    |    |
| 2154 | WU258 | 2022;13 | 29.46 | 29.96 |    |    |
| 2155 | WU259 | 2022;13 | 20.11 | 20.17 |    |    |
| 2156 | WU26  | 2022;10 | 20.32 | 20.79 |    |    |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|   | A   | B               | C   | D   | E   | F   |
|---|-----|-----------------|-----|-----|-----|-----|
| 2157| WU262| 2022;13         | 25.3 | 24.67 |
| 2158| WU263| 2022;13         | 26.35 | 25.8 |
| 2159| WU264| 2022;13         | 26.59 | 26.32 |
| 2160| WU267| 2022;13         | 22.98 | 23.33 |
| 2161| WU268| 2022;13         | 21.51 | 20.95 |
| 2162| WU269| 2022;13         | 28.34 | 27.74 |
| 2163| WU270| 2022;10         | 26.22 | 26.63 |
| 2164| WU270| 2022;13         | 25.55 | 25.92 |
| 2165| WU271| 2022;13         | 23.59 | 23.95 |
| 2166| WU272| 2022;14         | 15.95 | 16.26 |
| 2167| WU273| 2022;14         | 24.95 | 25.13 |
| 2168| WU275| 2022;14         | 17.67 | 18.07 |
| 2169| WU276| 2022;14         | 22.41 | 22.24 |
| 2170| WU277| 2022;14         | 22.84 | 23.2  |
| 2171| WU28| 2022;10        | 22.61 | 22.6  |
| 2172| WU280| 2022;14         | 28.82 | 29.01 |
| 2173| WU281| 2022;14         | 23.26 | 23.4  |
| 2174| WU282| 2022;14         | 27.29 | 27.53 |
| 2175| WU287| 2022;14         | 22.95 | 23.0  |
| 2176| WU288| 2022;14         | 18.21 | 18.35 |
| 2177| WU291| 2022;14         | 16.47 | 16.34 |
| 2178| WU293| 2022;14         | 18.41 | 18.64 |
| 2179| WU294| 2022;14         | 19.27 | 19.29 |
| 2180| WU297| 2022;14         | 25.3  | 24.85 |
| 2181| WU301| 2022;14         | 22.49 | 22.5  |
| 2182| WU302| 2022;14         | 26.87 | 26.78 |
| 2183| WU303| 2022;14         | 17.87 | 18.24 |
| 2184| WU304| 2022;14         | 17.69 | 17.98 |
| 2185| WU305| 2022;14         | 22.53 | 22.78 |
| 2186| WU307| 2022;14         | 16.92 | 17.21 |
| 2187| WU308| 2022;14         | 15.94 | 16.34 |
| 2188| WU309| 2022;14         | 19.01 | 19.35 |
| 2189| WU31| 2022;10        | 23.09 | 22.59 |
| 2190| WU311| 2022;14         | 15.81 | 15.88 |
| 2191| WU312| 2022;14         | 23.73 | 23.12 |
| 2192| WU314| 2022;14         | 18.58 | 18.22 |
| 2193| WU317| 2022;14         | 25.17 | 25.35 |
| 2194| WU318| 2022;14         | 16.94 | 17.21 |
| 2195| WU323| 2022;15         | 28.61 | 28.31 |
| 2196| WU325| 2022;15         | 23.76 | 23.71 |
| 2197| WU328| 2022;15         | 15.71 | 15.59 |
| 2198| WU329| 2022;15         | 17.4  | 17.3  |
| 2199| WU330| 2022;15         | 25.89 | 25.46 |
| 2200| WU332| 2022;15         | 23.57 | 23.34 |
|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| 2201 | WU333 | 2022;15 | 19.82 | 19.91 |   |   |
| 2202 | WU334 | 2022;15 | 16.95 | 17.28 |   |   |
| 2203 | WU35  | 2022;10  | 19.39 | 20.22 |   |   |
| 2204 | WU36  | 2022;10  | 22.18 | 22.56 |   |   |
| 2205 | WU37  | 2022;10  | 21.98 | 22.62 |   |   |
| 2206 | WU39  | 2022;10  | 18.17 | 18.62 |   |   |
| 2207 | WU40  | 2022;10  | 17.63 | 18.04 |   |   |
| 2208 | WU41  | 2022;10  | 29.01 | 29.48 |   |   |
| 2209 | WU42  | 2022;10  | 23.96 | 24.59 |   |   |
| 2210 | WU43  | 2022;10  | 20.8  | 21.06 |   |   |
| 2211 | WU47  | 2022;10  | 22.23 | 22.62 |   |   |
| 2212 | WU49  | 2022;10  | 22.15 | 21.52 |   |   |
| 2213 | WU5   | 2022;10  | 29.78 | 28.76 |   |   |
| 2215 | WU52  | 2022;10  | 29.69 | 27.92 |   |   |
| 2216 | WU56  | 2022;10  | 21.5  | 22   |   |   |
| 2217 | WU62  | 2022;10  | 17.66 | 16.9  |   |   |
| 2218 | WU65  | 2022;11  | 21.32 | 22.13 |   |   |
| 2219 | WU66  | 2022;11  | 24.18 | 24.36 |   |   |
| 2220 | WU69  | 2022;11  | 24.53 | 24.8  |   |   |
| 2221 | WU70  | 2022;11  | 25.36 | 26.42 |   |   |
| 2222 | WU72  | 2022;11  | 25.66 | 25.9  |   |   |
| 2223 | WU77  | 2022;11  | 22.5  | 23.07 |   |   |
| 2224 | WU79  | 2022;11  | 17.28 | 17.15 |   |   |
| 2225 | WU80  | 2022;11  | 26.79 | 26.55 |   |   |
| 2226 | WU82  | 2022;11  | 27.37 | 26.65 |   |   |
| 2227 | WU83  | 2022;11  | 22.67 | 22.37 |   |   |
| 2228 | WU84  | 2022;11  | 20.84 | 21.48 |   |   |
| 2229 | WU85  | 2022;11  | 24    | 23.87 |   |   |
| 2230 | WU86  | 2022;11  | 27.18 | 27.79 |   |   |
| 2231 | WU88  | 2022;11  | 21.98 | 22.24 |   |   |
| 2232 | WU89  | 2022;11  | 29.96 | 29.47 |   |   |
| 2233 | WU9   | 2022;10  | 20.32 | 20.56 |   |   |
| 2234 | WU90  | 2022;11  | 22.62 | 22.28 |   |   |
| 2235 | WU93  | 2022;11  | 21.2  | 22.15 |   |   |
| 2236 | WU94  | 2022;12  | 27.35 | 28.01 |   |   |
| 2237 | WU95  | 2022;12  | 19.6  | 19.26 |   |   |
| 2238 | WU96  | 2022;12  | 18.94 | 18.88 |   |   |
| 2239 | WU97  | 2022;12  | 24.94 | 24.72 |   |   |
| 2240 | WU98  | 2022;12  | 28.78 | 28.24 |   |   |
| 2241 | WU161 | 2022;13  | 17.91 | 23.52 |   |   |
| 2242 | WU170 | 2022;13  | 17.1  | 23.03 |   |   |
| 2243 | WU177 | 2022;13  | 16.82 | 22.8  |   |   |
| 2244 | WU188 | 2022;13  | 17.79 | 23.19 |   |   |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| 2245 | WU192 | 2022;13 | 20.94 | 26.37 |
| 2246 | WU200 | 2022;13 | 19.9 | 24.02 |
| 2247 | WU204 | 2022;13 | 18.28 | 24.17 |
| 2248 | WU211 | 2022;13 | 20.42 | 26.04 |
| 2249 | WU213 | 2022;13 | 22.09 | 27.7 |
| 2250 | WU218 | 2022;13 | 29.91 | 33.62 |
| 2251 | WU238 | 2022;13 | 24.07 | 28.17 |
| 2252 | WU255 | 2022;13 | 18.08 | 23.05 |
| 2253 | WU260 | 2022;13 | 23.43 | 27.82 |
| 2254 | WU274 | 2022;14 | 17.24 | 21.33 |
| 2255 | WU283 | 2022;14 | 18.19 | 23.61 |
| 2256 | WU284 | 2022;14 | 23.92 | 28.66 |
| 2257 | WU285 | 2022;14 | 27.58 | 32.4 |
| 2258 | WU286 | 2022;14 | 20.85 | 26.25 |
| 2259 | WU289 | 2022;14 | 18.75 | 23.85 |
| 2260 | WU290 | 2022;14 | 18.43 | 23.7 |
| 2261 | WU292 | 2022;14 | 17.38 | 22.28 |
| 2262 | WU298 | 2022;14 | 22.9 | 27.83 |
| 2263 | WU310 | 2022;14 | 17.11 | 22.29 |
| 2264 | WU316 | 2022;14 | 21.12 | 25.4 |
| 2265 | WU335 | 2022;15 | 17.61 | 21.42 |
| 2266 | WU336 | 2022;15 | 18.28 | 21.98 |
| 2267 | YNHH-0002 | 2022;12 | 32.9 | 32.1 |
| 2268 | YNHH-0004 | 2022;13 | 31.3 | 30.7 |
| 2269 | YNHH-0005 | 2022;13 | 34.4 | 33.6 |
| 2270 | YNHH-0006 | 2022;14 | 37.2 | 36.5 |
| 2271 | YNHH-0007 | 2022;14 | 38.1 | 36.8 |
| 2272 | YNHH-0009 | 2022;15 | 37.59 | 35.1 |
| 2273 | YNHH-0012 | 2022;11 | 33.5 | 32.5 |
| 2274 | YNHH-0015 | 2022;10 | 36.3 | 35.1 |
| 2275 | YNHH-0017 | 2022;10 | 35.2 | 33.9 |
| 2276 | YNHH-0020 | 2022;10 | 33.7 | 31.2 |
| 2277 | YNHH-0022 | 2022;10 | 35.9 | 35.3 |
| 2278 | YNHH-0023 | 2022;10 | 38.1 | 35.5 |
| 2279 | YNHH-0026 | 2022;10 | 35.7 | 34.5 |
| 2280 | YNHH-0027 | 2022;10 | 31.7 | 31 |
| 2281 | YNHH-0030 | 2022;10 | 32.3 | 31.5 |
| 2282 | YNHH-0032 | 2022;10 | 34.8 | 33.8 |
| 2283 | YNHH-0036 | 2022;10 | 35.7 | 34.7 |
| 2284 | YNHH-0037 | 2022;10 | 38.4 | 35.1 |
| 2285 | YNHH-0038 | 2022;10 | 32.3 | 31.5 |
| 2286 | YNHH-0039 | 2022;10 | 35 | 33.6 |
| 2287 | YNHH-0041 | 2022;10 | 31.9 | 31.4 |
| 2288 | YNHH-0042 | 2022;10 | 31.3 | 30.5 |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

| A     | B      | C  | D  | E  | F  |
|-------|--------|----|----|----|----|
| YNHH-0044 | 2022;10 | 31 | 30.5 |    |    |
| YNHH-0045 | 2022;10 | 37.8 | 34.9 |    |    |
| YNHH-0047 | 2022;10 | 34.9 | 33.9 |    |    |
| YNHH-0048 | 2022;10 | 34.9 | 34.1 |    |    |
| YNHH-0050 | 2022;10 | 31.7 | 31  |    |    |
| YNHH-0051 | 2022;10 | 36.5 | 36.2 |    |    |
| YNHH-0053 | 2022;10 | 34.5 | 33.6 |    |    |
| YNHH-0054 | 2022;10 | 31.3 | 31.8 |    |    |
| YNHH-0057 | 2022;10 | 37.9 | 34.9 |    |    |
| YNHH-0058 | 2022;10 | 33.8 | 32.9 |    |    |
| YNHH-0062 | 2022;10 | 35.4 | 34.7 |    |    |
| YNHH-0063 | 2022;10 | 34 | 33.3 |    |    |
| YNHH-0064 | 2022;10 | 32.3 | 31.6 |    |    |
| YNHH-0065 | 2022;10 | 33.3 | 33.3 |    |    |
| YNHH-0067 | 2022;10 | 32.7 | 32.2 |    |    |
| YNHH-0068 | 2022;10 | 32.5 | 31.9 |    |    |
| YNHH-0071 | 2022;10 | 37.4 | 35.1 |    |    |
| YNHH-0073 | 2022;10 | 33.1 | 32.5 |    |    |
| YNHH-0074 | 2022;10 | 35.2 | 34  |    |    |
| YNHH-0075 | 2022;10 | 35.1 | 33.9 |    |    |
| YNHH-0080 | 2022;10 | 35.3 | 33.9 |    |    |
| YNHH-0081 | 2022;10 | 36.2 | 34.7 |    |    |
| YNHH-0091 | 2022;10 | 32.4 | 30.9 |    |    |
| YNHH-0092 | 2022;10 | 34.9 | 34.4 |    |    |
| YNHH-0093 | 2022;10 | 32 | 31.3 |    |    |
| YNHH-0094 | 2022;10 | 37.6 | 35.7 |    |    |
| YNHH-0103 | 2022;10 | 31.6 | 30.9 |    |    |
| YNHH-0107 | 2022;10 | 36.2 | 35.7 |    |    |
| YNHH-0108 | 2022;10 | 33.1 | 32.4 |    |    |
| YNHH-0113 | 2022;11 | 33.2 | 32.1 |    |    |
| YNHH-0118 | 2022;11 | 37.4 | 34.9 |    |    |
| YNHH-0120 | 2022;11 | 38.4 | 35.4 |    |    |
| YNHH-0124 | 2022;11 | 34.7 | 33.7 |    |    |
| YNHH-0126 | 2022;11 | 31 | 30.1 |    |    |
| YNHH-0134 | 2022;11 | 34.8 | 33.5 |    |    |
| YNHH-0136 | 2022;11 | 33.3 | 31.8 |    |    |
| YNHH-0138 | 2022;11 | 33.7 | 32.6 |    |    |
| YNHH-0139 | 2022;11 | 32 | 30.5 |    |    |
| YNHH-0141 | 2022;11 | 34.8 | 33.4 |    |    |
| YNHH-0142 | 2022;11 | 36.5 | 34.8 |    |    |
| YNHH-0144 | 2022;11 | 35.7 | 33.2 |    |    |
| YNHH-0151 | 2022;11 | 34.4 | 32.9 |    |    |
| YNHH-0153 | 2022;11 | 32.4 | 31.5 |    |    |
| YNHH-0162 | 2022;11 | 31.2 | 30.5 |    |    |
| A       | B              | C |   | D |   | E |   | F |
|---------|----------------|---|---|---|---|---|---|---|
| 2333    | YNHH-0164     | 2022;11 | 36 |   | 34.6 |   |   |   |
| 2334    | YNHH-0167     | 2022;11 | 36 |   | 34.4 |   |   |   |
| 2335    | YNHH-0172     | 2022;11 | 37 |   | 35.4 |   |   |   |
| 2336    | YNHH-0177     | 2022;11 | 34 |   | 33.4 |   |   |   |
| 2337    | YNHH-0178     | 2022;11 | 33.9|   | 33.1 |   |   |   |
| 2338    | YNHH-0179     | 2022;11 | 34.8|   | 33.2 |   |   |   |
| 2339    | YNHH-0184     | 2022;11 | 32.3|   | 31.3 |   |   |   |
| 2340    | YNHH-0191     | 2022;11 | 36.2|   | 35.1 |   |   |   |
| 2341    | YNHH-0196     | 2022;11 | 32.9|   | 31.6 |   |   |   |
| 2342    | YNHH-0197     | 2022;11 | 32.9|   | 31.2 |   |   |   |
| 2343    | YNHH-0198     | 2022;11 | 32.6|   | 31.8 |   |   |   |
| 2344    | YNHH-0199     | 2022;11 | 34.8|   | 33.5 |   |   |   |
| 2345    | YNHH-0201     | 2022;11 | 36.1|   | 34.7 |   |   |   |
| 2346    | YNHH-0203     | 2022;11 | 32.4|   | 31.3 |   |   |   |
| 2347    | YNHH-0206     | 2022;11 | 31.2|   | 30.3 |   |   |   |
| 2348    | YNHH-0209     | 2022;11 | 33.5|   | 32.7 |   |   |   |
| 2349    | YNHH-0211     | 2022;11 | 34.6|   | 33.2 |   |   |   |
| 2350    | YNHH-0212     | 2022;11 | 31.4|   | 30.7 |   |   |   |
| 2351    | YNHH-0213     | 2022;11 | 32.1|   | 31   |   |   |   |
| 2352    | YNHH-0214     | 2022;11 | 33 |   | 32.1 |   |   |   |
| 2353    | YNHH-0221     | 2022;11 | 33.1|   | 32.2 |   |   |   |
| 2354    | YNHH-0222     | 2022;11 | 30.5|   | 32.8 |   |   |   |
| 2355    | YNHH-0226     | 2022;11 | 31.4|   | 30.7 |   |   |   |
| 2356    | YNHH-0227     | 2022;11 | 36.6|   | 35.6 |   |   |   |
| 2357    | YNHH-0233     | 2022;11 | 32.9|   | 31.1 |   |   |   |
| 2358    | YNHH-0235     | 2022;11 | 31.5|   | 30.3 |   |   |   |
| 2359    | YNHH-0249     | 2022;11 | 36.3|   | 34.3 |   |   |   |
| 2360    | YNHH-0255     | 2022;11 | 32.4|   | 31   |   |   |   |
| 2361    | YNHH-0257     | 2022;11 | 32 |   | 30.9 |   |   |   |
| 2362    | YNHH-0267     | 2022;12 | 34.2|   | 33   |   |   |   |
| 2363    | YNHH-0268     | 2022;12 | 34 |   | 32.1 |   |   |   |
| 2364    | YNHH-0271     | 2022;12 | 30.5|   | 30   |   |   |   |
| 2365    | YNHH-0280     | 2022;12 | 32.8|   | 31.6 |   |   |   |
| 2366    | YNHH-0287     | 2022;12 | 33.2|   | 32.9 |   |   |   |
| 2367    | YNHH-0292     | 2022;12 | 35.6|   | 34.7 |   |   |   |
| 2368    | YNHH-0293     | 2022;12 | 31.4|   | 30.7 |   |   |   |
| 2369    | YNHH-0298     | 2022;12 | 30.5|   | 29.5 |   |   |   |
| 2370    | YNHH-0299     | 2022;12 | 35.3|   | 33.6 |   |   |   |
| 2371    | YNHH-0301     | 2022;12 | 31.6|   | 30.8 |   |   |   |
| 2372    | YNHH-0309     | 2022;12 | 31.2|   | 30.8 |   |   |   |
| 2373    | YNHH-0313     | 2022;12 | 34 |   | 32.5 |   |   |   |
| 2374    | YNHH-0316     | 2022;12 | 30.9|   | 30.7 |   |   |   |
| 2375    | YNHH-0318     | 2022;12 | 35 |   | 33.8 |   |   |   |
| 2376    | YNHH-0321     | 2022;12 | 31.5|   | 30.6 |   |   |   |
|   | A         |   | B       |   | C     |   | D     |   | E     |   | F     |   |
|---|----------|---|---------|---|-------|---|-------|---|-------|---|-------|---|
| 2377 | YNHH-0322 | 2022;12 | 30.5 | 29.6 |
| 2378 | YNHH-0332 | 2022;12 | 37.5 | 35.5 |
| 2379 | YNHH-0338 | 2022;12 | 30.5 | 30.2 |
| 2380 | YNHH-0341 | 2022;12 | 34.4 | 33.2 |
| 2381 | YNHH-0345 | 2022;12 | 32.7 | 31.6 |
| 2382 | YNHH-0348 | 2022;12 | 33  | 32.1 |
| 2383 | YNHH-0349 | 2022;12 | 33.5 | 32.4 |
| 2384 | YNHH-0350 | 2022;12 | 33.8 | 32.9 |
| 2385 | YNHH-0353 | 2022;12 | 32.6 | 31.8 |
| 2386 | YNHH-0354 | 2022;12 | 35.6 | 33.3 |
| 2387 | YNHH-0355 | 2022;12 | 31.1 | 30.7 |
| 2388 | YNHH-0356 | 2022;12 | 34.6 | 34.1 |
| 2389 | YNHH-0359 | 2022;12 | 34.7 | 34.1 |
| 2390 | YNHH-0366 | 2022;12 | 31.1 | 30.5 |
| 2391 | YNHH-0372 | 2022;12 | 36.1 | 34.4 |
| 2392 | YNHH-0392 | 2022;12 | 33.5 | 32.8 |
| 2393 | YNHH-0394 | 2022;12 | 36.8 | 35.2 |
| 2394 | YNHH-0395 | 2022;12 | 31.6 | 31.1 |
| 2395 | YNHH-0396 | 2022;12 | 36  | 33.7 |
| 2396 | YNHH-0401 | 2022;12 | 32.7 | 31.8 |
| 2397 | YNHH-0405 | 2022;12 | 34.2 | 32.8 |
| 2398 | YNHH-0406 | 2022;12 | 33.2 | 32.6 |
| 2399 | YNHH-0412 | 2022;12 | 37.3 | 35.4 |
| 2400 | YNHH-0413 | 2022;12 | 33.1 | 31  |
| 2401 | YNHH-0415 | 2022;12 | 31.2 | 30.6 |
| 2402 | YNHH-0419 | 2022;12 | 31.1 | 30.5 |
| 2403 | YNHH-0421 | 2022;12 | 33  | 32.1 |
| 2404 | YNHH-0431 | 2022;12 | 34.6 | 33.6 |
| 2405 | YNHH-0433 | 2022;13 | 33.7 | 33  |
| 2406 | YNHH-0434 | 2022;13 | 32.4 | 31.5 |
| 2407 | YNHH-0438 | 2022;13 | 33.1 | 32.5 |
| 2408 | YNHH-0441 | 2022;13 | 31.9 | 29.8 |
| 2409 | YNHH-0444 | 2022;13 | 31.2 | 30.5 |
| 2410 | YNHH-0449 | 2022;13 | 33.7 | 32.5 |
| 2411 | YNHH-0455 | 2022;13 | 35.4 | 34.3 |
| 2412 | YNHH-0462 | 2022;13 | 31.8 | 30.9 |
| 2413 | YNHH-0469 | 2022;13 | 32.3 | 31.4 |
| 2414 | YNHH-0473 | 2022;13 | 36.7 | 35.1 |
| 2415 | YNHH-0478 | 2022;13 | 35  | 33.4 |
| 2416 | YNHH-0479 | 2022;13 | 33.1 | 31.3 |
| 2417 | YNHH-0486 | 2022;13 | 36.6 | 36.5 |
| 2418 | YNHH-0497 | 2022;13 | 38  | 35.1 |
| 2419 | YNHH-0498 | 2022;13 | 33  | 31.6 |
| 2420 | YNHH-0499 | 2022;13 | 35.4 | 34  |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| 2421 | YNHH-0501 | 2022;13 | 36 | 35.1 |
| 2422 | YNHH-0504 | 2022;13 | 32.9 | 32.2 |
| 2423 | YNHH-0507 | 2022;13 | 34.7 | 33.6 |
| 2424 | YNHH-0513 | 2022;13 | 30.6 | 29.6 |
| 2425 | YNHH-0521 | 2022;13 | 33.6 | 33 |
| 2426 | YNHH-0523 | 2022;13 | 37.9 | 34.6 |
| 2427 | YNHH-0530 | 2022;13 | 35.2 | 33.8 |
| 2428 | YNHH-0532 | 2022;13 | 31.7 | 31.6 |
| 2429 | YNHH-0533 | 2022;13 | 35.2 | 34 |
| 2430 | YNHH-0535 | 2022;13 | 34.4 | 33.4 |
| 2431 | YNHH-0538 | 2022;13 | 34.3 | 33.3 |
| 2432 | YNHH-0554 | 2022;13 | 34.1 | 33.2 |
| 2433 | YNHH-0560 | 2022;13 | 34.4 | 33.6 |
| 2434 | YNHH-0564 | 2022;13 | 32.8 | 31.9 |
| 2435 | YNHH-0568 | 2022;13 | 36.2 | 34.6 |
| 2436 | YNHH-0570 | 2022;13 | 34 | 32.8 |
| 2437 | YNHH-0572 | 2022;13 | 33.2 | 32.3 |
| 2438 | YNHH-0581 | 2022;13 | 33.6 | 32.9 |
| 2439 | YNHH-0591 | 2022;13 | 31.5 | 30.5 |
| 2440 | YNHH-0595 | 2022;13 | 33.4 | 31.2 |
| 2441 | YNHH-0597 | 2022;13 | 32.7 | 32.2 |
| 2442 | YNHH-0599 | 2022;13 | 32.3 | 31.5 |
| 2443 | YNHH-0602 | 2022;13 | 33 | 32.1 |
| 2444 | YNHH-0603 | 2022;13 | 35.5 | 33.9 |
| 2445 | YNHH-0609 | 2022;13 | 30.3 | 32.4 |
| 2446 | YNHH-0610 | 2022;13 | 33.4 | 33 |
| 2447 | YNHH-0614 | 2022;13 | 31.3 | 30.5 |
| 2448 | YNHH-0616 | 2022;13 | 36.9 | 35.3 |
| 2449 | YNHH-0617 | 2022;13 | 35 | 33.9 |
| 2450 | YNHH-0619 | 2022;13 | 36.5 | 35.7 |
| 2451 | YNHH-0621 | 2022;13 | 34.4 | 33.1 |
| 2452 | YNHH-0633 | 2022;13 | 34.6 | 33.6 |
| 2453 | YNHH-0635 | 2022;13 | 31.7 | 30.9 |
| 2454 | YNHH-0637 | 2022;13 | 32.3 | 31.6 |
| 2455 | YNHH-0641 | 2022;13 | 31.2 | 30.6 |
| 2456 | YNHH-0642 | 2022;13 | 32.4 | 31.7 |
| 2457 | YNHH-0643 | 2022;13 | 33.6 | 33 |
| 2458 | YNHH-0645 | 2022;13 | 36.2 | 34.9 |
| 2459 | YNHH-0652 | 2022;13 | 34.5 | 34 |
| 2460 | YNHH-0654 | 2022;13 | 32.5 | 31.2 |
| 2461 | YNHH-0658 | 2022;13 | 37.9 | 34.8 |
| 2462 | YNHH-0660 | 2022;13 | 33.7 | 35.7 |
| 2463 | YNHH-0661 | 2022;13 | 34.9 | 33.8 |
| 2464 | YNHH-0663 | 2022;13 | 31 | 30.5 |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

| A    | B            | C   | D   | E   | F   |
|------|--------------|-----|-----|-----|-----|
| 2465 | YNHH-0667    | 2022;13 | 36.7 | 36  |
| 2466 | YNHH-0669    | 2022;13 | 35.8 | 34.3|
| 2467 | YNHH-0676    | 2022;13 | 35.3 | 34  |
| 2468 | YNHH-0679    | 2022;13 | 31.3 | 30.3|
| 2469 | YNHH-0682    | 2022;13 | 30.4 | 29.8|
| 2470 | YNHH-0698    | 2022;13 | 37.3 | 36.1|
| 2471 | YNHH-0703    | 2022;13 | 33.4 | 32  |
| 2472 | YNHH-0708    | 2022;13 | 34.9 | 33.9|
| 2473 | YNHH-0721    | 2022;13 | 32.8 | 32.1|
| 2474 | YNHH-0723    | 2022;13 | 35.7 | 34.2|
| 2475 | YNHH-0727    | 2022;13 | 30.4 | 29.8|
| 2476 | YNHH-0732    | 2022;13 | 33.5 | 32.5|
| 2477 | YNHH-0733    | 2022;13 | 34.5 | 33.1|
| 2478 | YNHH-0741    | 2022;13 | 34.4 | 33.5|
| 2479 | YNHH-0743    | 2022;13 | 35  | 34.1|
| 2480 | YNHH-0748    | 2022;13 | 34.3 | 32.6|
| 2481 | YNHH-0750    | 2022;14 | 35.5 | 34.4|
| 2482 | YNHH-0753    | 2022;14 | 34.2 | 33.4|
| 2483 | YNHH-0755    | 2022;14 | 31.5 | 31.7|
| 2484 | YNHH-0756    | 2022;14 | 35.6 | 34.5|
| 2485 | YNHH-0765    | 2022;14 | 34.5 | 33.1|
| 2486 | YNHH-0769    | 2022;14 | 31.8 | 31  |
| 2487 | YNHH-0770    | 2022;14 | 30.8 | 30.3|
| 2488 | YNHH-0773    | 2022;14 | 30.2 | 29.6|
| 2489 | YNHH-0775    | 2022;14 | 36.3 | 35.3|
| 2490 | YNHH-0784    | 2022;14 | 34  | 32.8|
| 2491 | YNHH-0785    | 2022;14 | 32.8 | 31.7|
| 2492 | YNHH-0787    | 2022;14 | 34.8 | 34.1|
| 2493 | YNHH-0808    | 2022;14 | 31.4 | 30.9|
| 2494 | YNHH-0813    | 2022;14 | 34.1 | 33.3|
| 2495 | YNHH-0814    | 2022;14 | 35.6 | 34.1|
| 2496 | YNHH-0824    | 2022;14 | 31.3 | 31  |
| 2497 | YNHH-0830    | 2022;14 | 32  | 31.5|
| 2498 | YNHH-0832    | 2022;14 | 32.4 | 31.7|
| 2499 | YNHH-0834    | 2022;14 | 31  | 30.3|
| 2500 | YNHH-0841    | 2022;14 | 38.1 | 36.5|
| 2501 | YNHH-0847    | 2022;14 | 30.9 | 30.4|
| 2502 | YNHH-0851    | 2022;14 | 35.4 | 34.5|
| 2503 | YNHH-0853    | 2022;14 | 31.3 | 30.4|
| 2504 | YNHH-0858    | 2022;14 | 33.6 | 31.9|
| 2505 | YNHH-0859    | 2022;14 | 36.5 | 35.8|
| 2506 | YNHH-0861    | 2022;14 | 35.4 | 33.7|
| 2507 | YNHH-0862    | 2022;14 | 34.1 | 33.7|
| 2508 | YNHH-0864    | 2022;14 | 31.3 | 33  |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|
| A   | B   | C   | D   | E   | F   |     |
| 2509| YNHH-0874 | 2022;14 | 34  | 32.8|     |     |
| 2510| YNHH-0882 | 2022;14 | 35.6| 34.7|     |     |
| 2511| YNHH-0885 | 2022;14 | 35.1| 33.8|     |     |
| 2512| YNHH-0887 | 2022;14 | 33.7| 32.8|     |     |
| 2513| YNHH-0889 | 2022;14 | 34  | 33  |     |     |
| 2514| YNHH-0896 | 2022;14 | 32.8| 32  |     |     |
| 2515| YNHH-0899 | 2022;14 | 30.2| 32.8|     |     |
| 2516| YNHH-0900 | 2022;14 | 30.9| 30.4|     |     |
| 2517| YNHH-0906 | 2022;14 | 35.2| 34.4|     |     |
| 2518| YNHH-0909 | 2022;14 | 30.6| 29.9|     |     |
| 2519| YNHH-0914 | 2022;14 | 30.4| 33.1|     |     |
| 2520| YNHH-0927 | 2022;14 | 33.9| 32.7|     |     |
| 2521| YNHH-0930 | 2022;14 | 34.8| 33.5|     |     |
| 2522| YNHH-0931 | 2022;14 | 31  | 30.6|     |     |
| 2523| YNHH-0933 | 2022;14 | 33.3| 36.5|     |     |
| 2524| YNHH-0935 | 2022;14 | 35.1| 34.1|     |     |
| 2525| YNHH-0938 | 2022;14 | 32.1| 31.6|     |     |
| 2526| YNHH-0939 | 2022;14 | 35  | 34  |     |     |
| 2527| YNHH-0942 | 2022;14 | 35.2| 34.5|     |     |
| 2528| YNHH-0944 | 2022;14 | 30.5| 30  |     |     |
| 2529| YNHH-0945 | 2022;14 | 35.2| 34.5|     |     |
| 2530| YNHH-0949 | 2022;14 | 32.6| 31.9|     |     |
| 2531| YNHH-0953 | 2022;14 | 35.5| 34.5|     |     |
| 2532| YNHH-0958 | 2022;14 | 31.1| 33.7|     |     |
| 2533| YNHH-0968 | 2022;14 | 32.2| 31.7|     |     |
| 2534| YNHH-0976 | 2022;14 | 30.9| 33.4|     |     |
| 2535| YNHH-0977 | 2022;14 | 31.7| 30.9|     |     |
| 2536| YNHH-0990 | 2022;14 | 32.2| 31.3|     |     |
| 2537| YNHH-0993 | 2022;14 | 32.3| 31.6|     |     |
| 2538| YNHH-1004 | 2022;14 | 32.5| 32  |     |     |
| 2539| YNHH-1010 | 2022;14 | 35.8| 34.7|     |     |
| 2540| YNHH-1020 | 2022;14 | 36.3| 35.8|     |     |
| 2541| YNHH-1023 | 2022;14 | 33.8| 32.9|     |     |
| 2542| YNHH-1030 | 2022;14 | 38.1| 36.8|     |     |
| 2543| YNHH-1041 | 2022;14 | 36  | 34.9|     |     |
| 2544| YNHH-1042 | 2022;14 | 31.9| 31.5|     |     |
| 2545| YNHH-1049 | 2022;14 | 31.7| 34.1|     |     |
| 2546| YNHH-1073 | 2022;14 | 36  | 35  |     |     |
| 2547| YNHH-1082 | 2022;14 | 31.8| 31.7|     |     |
| 2548| YNHH-1090 | 2022;14 | 36.2| 35.5|     |     |
| 2549| YNHH-1096 | 2022;14 | 33.6| 33.1|     |     |
| 2550| YNHH-1102 | 2022;14 | 34.7| 33.9|     |     |
| 2551| YNHH-1103 | 2022;14 | 36.4| 35.2|     |     |
| 2552| YNHH-1104 | 2022;14 | 32.6| 31.8|     |     |
## Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|    | A     | B           | C  | D  | E  | F  |
|----|-------|-------------|----|----|----|----|
| 2553| YNHH-1110 | 2022;14     | 36.6| 34.7|
| 2554| YNHH-1115 | 2022;14     | 32.1| 31.2|
| 2555| YNHH-1123 | 2022;14     | 31.3| 33.3|
| 2556| YNHH-1125 | 2022;14     | 33.6| 33.1|
| 2557| YNHH-1136 | 2022;14     | 35.5| 35.4|
| 2558| YNHH-1140 | 2022;14     | 36  |    | 35 |
| 2559| YNHH-1153 | 2022;14     | 36.8| 34.9|
| 2560| YNHH-1154 | 2022;14     | 35.6| 35.6|
| 2561| YNHH-1162 | 2022;15     | 34.5| 35.8|
| 2562| YNHH-1164 | 2022;15     | 33.8| 35.7|
| 2563| YNHH-1166 | 2022;15     | 35.9| 34.8|
| 2564| YNHH-1169 | 2022;15     | 36.5|  37|
| 2565| YNHH-1182 | 2022;15     | 33.3| 32.5|
| 2566| YNHH-1183 | 2022;15     | 35.6| 34.9|
| 2567| YNHH-1192 | 2022;15     | 34  | 33.6|
| 2568| YNHH-1195 | 2022;15     | 35.9| 35.1|
| 2569| YNHH-1199 | 2022;15     | 30.4| 29.9|
| 2570| YNHH-1225 | 2022;15     | 32.5| 32.2|
| 2571| YNHH-1227 | 2022;15     | 32.7| 34.3|
| 2572| YNHH-1228 | 2022;15     | 33.5| 32.9|
| 2573| YNHH-1234 | 2022;15     | 31.6| 33.9|
| 2574| YNHH-1236 | 2022;15     | 30.7| 30.4|
| 2575| YNHH-1239 | 2022;15     | 34.9| 33.9|
| 2576| YNHH-1241 | 2022;15     | 34.7| 33.7|
| 2577| YNHH-1243 | 2022;15     | 32.6| 34.6|
| 2578| YNHH-1251 | 2022;15     | 30.7|   30|
| 2579| YNHH-1258 | 2022;15     | 30.4| 29.9|
| 2580| YNHH-1262 | 2022;15     | 33.8| 32.9|
| 2581| YNHH-1266 | 2022;15     | 33.7| 33.2|
| 2582| YNHH-1274 | 2022;15     | 33.1| 35.1|
| 2583| YNHH-1281 | 2022;15     | 34.3| 32.8|
| 2584| YNHH-1284 | 2022;15     | 35.2| 35.5|
| 2585| YNHH-1295 | 2022;15     | 30.9| 33.7|
| 2586| YNHH-1308 | 2022;15     | 37.2| 36.2|
| 2587| YNHH-1315 | 2022;15     | 36.7| 35.3|
| 2588| YNHH-1316 | 2022;15     | 36.1| 34.4|
| 2589| YNHH-1318 | 2022;15     | 32.6| 31.9|
| 2590| YNHH-1322 | 2022;15     | 36.8| 36.6|
| 2591| YNHH-1323 | 2022;15     | 35.1| 36.7|
| 2592| YNHH-1324 | 2022;15     | 34.5| 33.8|
| 2593| YNHH-1330 | 2022;15     | 32.9| 31.4|
| 2594| YNHH-1333 | 2022;15     | 35  | 35  |
| 2595| YNHH-1336 | 2022;15     | 34.9| 33.5|
| 2596| YNHH-1337 | 2022;15     | 35.7| 34.6|

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## Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|   |   | A          | B    | C | D     | E     | F     |
|---|---|------------|------|---|-------|-------|-------|
| 2597 | YNHH-1348 | 2022;15   | 30.1 |   | 29    |       |       |
| 2598 | YNHH-1355 | 2022;15   | 31.77|   | 30.89 |       |       |
| 2599 | YNHH-1356 | 2022;15   | 31.4 |   | 30.9  |       |       |
| 2600 | YNHH-1367 | 2022;15   | 31   |   | 30.6  |       |       |
| 2601 | YNHH-1369 | 2022;15   | 33.2 |   | 32.3  |       |       |
| 2602 | YNHH-1381 | 2022;15   | 37   |   | 36.6  |       |       |
| 2603 | YNHH-1382 | 2022;15   | 35.8 |   | 34.4  |       |       |
| 2604 | YNHH-1384 | 2022;15   | 37.9 |   | 37.5  |       |       |
| 2605 | YNHH-1392 | 2022;15   | 32.3 |   | 31.8  |       |       |
| 2606 | YNHH-1400 | 2022;15   | 31.54|   | 33.2  |       |       |
| 2607 | YNHH-1407 | 2022;15   | 34.49|   | 34.3  |       |       |
| 2608 | YNHH-1408 | 2022;15   | 35.2 |   | 33.8  |       |       |
| 2609 | YNHH-1410 | 2022;15   | 34.96|   | 33.84 |       |       |
| 2610 | YNHH-1411 | 2022;15   | 37.72|   | 35.72 |       |       |
| 2611 | YNHH-1417 | 2022;15   | 30.27|   | 29.09 |       |       |
| 2612 | YNHH-1424 | 2022;15   | 37.84|   | 35.64 |       |       |
| 2613 | YNHH-1427 | 2022;15   | 33.3 |   | 32.4  |       |       |
| 2614 | YNHH-1430 | 2022;15   | 36.42|   | 34.93 |       |       |
| 2615 | YNHH-1432 | 2022;15   | 33.23|   | 32.64 |       |       |
| 2616 | YNHH-1439 | 2022;15   | 35.02|   | 34.02 |       |       |
| 2617 | YNHH-1442 | 2022;15   | 35.4 |   | 34.8  |       |       |
| 2618 | YNHH-1443 | 2022;15   | 33   |   | 33.8  |       |       |
| 2619 | YNHH-1445 | 2022;15   | 33.5 |   | 35.2  |       |       |
| 2620 | YNHH-1448 | 2022;15   | 34.8 |   | 33.4  |       |       |
| 2621 | YNHH-1449 | 2022;15   | 35.1 |   | 33.4  |       |       |
| 2622 | YNHH-1452 | 2022;15   | 32.6 |   | 32.2  |       |       |
| 2623 | YNHH-1456 | 2022;15   | 33.4 |   | 32.7  |       |       |
| 2624 | YNHH-1458 | 2022;15   | 30.4 |   | 30    |       |       |
| 2625 | YNHH-1460 | 2022;15   | 34.2 |   | 33.7  |       |       |
| 2626 | YNHH-1461 | 2022;15   | 31.8 |   | 31.3  |       |       |
| 2627 | YNHH-1464 | 2022;15   | 30.8 |   | 30.6  |       |       |
| 2628 | YNHH-1465 | 2022;15   | 36.3 |   | 35.1  |       |       |
| 2629 | YNHH-1478 | 2022;15   | 32.7 |   | 32.6  |       |       |
| 2630 | YNHH-1480 | 2022;15   | 31.8 |   | 30.4  |       |       |
| 2631 | YNHH-1483 | 2022;15   | 31.3 |   | 31    |       |       |
| 2632 | YNHH-1484 | 2022;15   | 32.5 |   | 31.3  |       |       |
| 2633 | YNHH-1490 | 2022;15   | 32.2 |   | 31    |       |       |
| 2634 | YNHH-1491 | 2022;15   | 33.8 |   | 33.4  |       |       |
| 2635 | YNHH-1495 | 2022;15   | 34.7 |   | 33.2  |       |       |
| 2636 | YNHH-1502 | 2022;15   | 35.3 |   | 34.7  |       |       |
| 2637 | YNHH-1504 | 2022;15   | 33.1 |   | 35.6  |       |       |
| 2638 | YNHH-1508 | 2022;15   | 35.1 |   | 34.5  |       |       |
| 2639 | YNHH-1512 | 2022;15   | 35.8 |   | 34.9  |       |       |
| 2640 | YNHH-1520 | 2022;15   | 34.9 |   | 33.8  |       |       |
|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 2641 | YNHH-1521 | 2022;15 | 37.4 | 36.2 |   |
| 2642 | YNHH-1524 | 2022;15 | 35.8 | 34.4 |   |
| 2643 | YNHH-1528 | 2022;15 | 32.7 | 32.1 |   |
| 2644 | YNHH-1529 | 2022;15 | 31.6 | 31.1 |   |
| 2645 | YNHH-1538 | 2022;15 | 34.7 | 33.2 |   |
| 2646 | YNHH-1541 | 2022;15 | 36.1 | 35.3 |   |
| 2647 | YNHH-1551 | 2022;15 | 33.2 | 32.2 |   |
| 2648 | YNHH-1553 | 2022;15 | 30.9 | 34  |   |
| 2649 | YNHH-1559 | 2022;15 | 34.3 | 33.6 |   |
| 2650 | YNHH-1561 | 2022;15 | 30.1 | 29.9 |   |
| 2651 | YNHH-1562 | 2022;15 | 35.3 | 34.4 |   |
| 2652 | YNHH-1565 | 2022;15 | 30.6 | 29.9 |   |
| 2653 | YNHH-1574 | 2022;15 | 31.6 | 31  |   |
| 2654 | YNHH-1580 | 2022;15 | 35  | 34.5 |   |
| 2655 | YNHH-1582 | 2022;15 | 33  | 32.9 |   |
| 2656 | YNHH-1584 | 2022;15 | 35.6 | 34.4 |   |
| 2657 | YNHH-1585 | 2022;15 | 31.9 | 31.4 |   |
| 2658 | YNHH-1587 | 2022;15 | 37.5 | 36.6 |   |
| 2659 | YNHH-1589 | 2022;15 | 35.8 | 34.7 |   |
| 2660 | YNHH-1590 | 2022;15 | 31.2 | 31.5 |   |
| 2661 | YNHH-1593 | 2022;15 | 35.5 | 34.8 |   |
| 2662 | YNHH-1595 | 2022;15 | 36.4 | 35.4 |   |
| 2663 | YNHH-1597 | 2022;15 | 36.7 | 35.4 |   |
| 2664 | YNHH-1602 | 2022;15 | 34.7 | 33.4 |   |
| 2665 | YNHH-1606 | 2022;15 | 30.3 | 30  |   |
| 2666 | YNHH-1609 | 2022;15 | 31.2 | 33.8 |   |
| 2667 | YNHH-1612 | 2022;15 | 38  | 36.5 |   |
| 2668 | YNHH-1614 | 2022;15 | 34.3 | 34  |   |
| 2669 | YNHH-1625 | 2022;15 | 35.5 | 35.1 |   |
| 2670 | YNHH-1630 | 2022;15 | 32.8 | 32.5 |   |
| 2671 | YNHH-1631 | 2022;15 | 33.5 | 32.8 |   |
| 2672 | YNHH-1634 | 2022;15 | 32.7 | 32  |   |
| 2673 | YNHH-1645 | 2022;15 | 33.6 | 32.9 |   |
| 2674 | YNHH-1658 | 2022;15 | 30.3 | 29.7 |   |
| 2675 | YNHH-1662 | 2022;15 | 35.3 | 34.5 |   |
| 2676 | YNHH-1667 | 2022;15 | 34.6 | 33.6 |   |
| 2677 | YNHH-1669 | 2022;15 | 35.5 | 35  |   |
| 2678 | YNHH-1681 | 2022;15 | 34.3 | 33.7 |   |
| 2679 | YNHH-1683 | 2022;15 | 32.5 | 31.8 |   |
| 2680 | YNHH-1685 | 2022;15 | 30.9 | 30.6 |   |
| 2681 | YNHH-1686 | 2022;15 | 36.6 | 35.9 |   |
| 2682 | YNHH-1690 | 2022;15 | 34.1 | 33  |   |
| 2683 | YNHH-1703 | 2022;15 | 34.7 | 34  |   |
| 2684 | YNHH-1720 | 2022;15 | 31.7 | 31.4 |   |
### Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

| A    | Specimen   | Date   | C1    | C2    |
|------|------------|--------|-------|-------|
| 2685 | YNHH-1724  | 2022;15| 30.3  | 32.7  |
| 2686 | YNHH-1726  | 2022;15| 36.4  | 35.3  |
| 2687 | YNHH-1727  | 2022;15| 35.5  | 34.9  |
| 2688 | YNHH-1739  | 2022;15| 36.1  | 34.6  |
| 2689 | YNHH-1743  | 2022;15| 34.7  | 34    |
| 2690 | YNHH-0003  | 2022;12| 18.1  | 17.6  |
| 2691 | YNHH-0008  | 2022;14| 25.8  | 25.5  |
| 2692 | YNHH-0010  | 2022;15| 27.7  | 27.3  |
| 2693 | YNHH-0014  | 2022;10| 19.6  | 19.3  |
| 2694 | YNHH-0016  | 2022;10| 23.5  | 23    |
| 2695 | YNHH-0018  | 2022;10| 16.7  | 16.5  |
| 2696 | YNHH-0019  | 2022;10| 25.1  | 24.8  |
| 2697 | YNHH-0021  | 2022;10| 26.6  | 26.2  |
| 2698 | YNHH-0024  | 2022;10| 26.1  | 25.6  |
| 2699 | YNHH-0101  | 2022;10| 24.5  | 24.1  |
| 2700 | YNHH-0241  | 2022;11| 22.9  | 22.6  |
| 2701 | YNHH-0245  | 2022;11| 23.3  | 23.2  |
| 2702 | YNHH-0307  | 2022;12| 28.1  | 27.7  |
| 2703 | YNHH-0315  | 2022;12| 17.3  | 17    |
| 2704 | YNHH-0317  | 2022;12| 24.4  | 24    |
| 2705 | YNHH-0319  | 2022;12| 21.4  | 21    |
| 2706 | YNHH-0324  | 2022;12| 20    | 19.6  |
| 2707 | YNHH-0325  | 2022;12| 20.8  | 20.4  |
| 2708 | YNHH-0328  | 2022;12| 23.6  | 23.3  |
| 2709 | YNHH-0329  | 2022;12| 18.1  | 18    |
| 2710 | YNHH-0330  | 2022;12| 29.5  | 28.7  |
| 2711 | YNHH-0331  | 2022;12| 17.4  | 17.3  |
| 2712 | YNHH-0334  | 2022;12| 21.1  | 20.6  |
| 2713 | YNHH-0336  | 2022;12| 26.1  | 25.8  |
| 2714 | YNHH-0337  | 2022;12| 22.5  | 22.1  |
| 2715 | YNHH-0340  | 2022;12| 17.1  | 17    |
| 2716 | YNHH-0367  | 2022;12| 21.4  | 21.3  |
| 2717 | YNHH-0410  | 2022;12| 22.6  | 22.2  |
| 2718 | YNHH-0451  | 2022;13| 17.3  | 16.9  |
| 2719 | YNHH-0506  | 2022;13| 20.4  | 19.9  |
| 2720 | YNHH-0508  | 2022;13| 28.3  | 27.6  |
| 2721 | YNHH-0509  | 2022;13| 18.7  | 18.5  |
| 2722 | YNHH-0510  | 2022;13| 17.1  | 17.1  |
| 2723 | YNHH-0511  | 2022;13| 25.5  | 25.3  |
| 2724 | YNHH-0514  | 2022;13| 22.6  | 22.2  |
| 2725 | YNHH-0515  | 2022;13| 18    | 17.8  |
| 2726 | YNHH-0520  | 2022;13| 25.6  | 25.2  |
| 2727 | YNHH-0528  | 2022;13| 25.1  | 24.9  |
| 2728 | YNHH-0529  | 2022;13| 26.6  | 26.2  |
| A       | B         | C     | D     | E  | F     |
|---------|-----------|-------|-------|----|-------|
| 2729    | YNHH-0539| 2022;13| 29.9  | 29 |       |
| 2730    | YNHH-0541| 2022;13| 20.6  | 20.2|       |
| 2731    | YNHH-0544| 2022;13| 21.1  | 20.6|       |
| 2732    | YNHH-0547| 2022;13| 26.8  | 26.4|       |
| 2733    | YNHH-0548| 2022;13| 17.5  | 17.2|       |
| 2734    | YNHH-0549| 2022;13| 23.2  | 22.8|       |
| 2735    | YNHH-0551| 2022;13| 19.9  | 19.6|       |
| 2736    | YNHH-0553| 2022;13| 23.5  | 23.7|       |
| 2737    | YNHH-0555| 2022;13| 25.6  | 25.4|       |
| 2738    | YNHH-0558| 2022;13| 20.7  | 20.8|       |
| 2739    | YNHH-0559| 2022;13| 22.2  | 21.9|       |
| 2740    | YNHH-0561| 2022;13| 20.9  | 20.7|       |
| 2741    | YNHH-0567| 2022;13| 19.5  | 19.4|       |
| 2742    | YNHH-0569| 2022;13| 19.3  | 19.3|       |
| 2743    | YNHH-0571| 2022;13| 24.3  | 24.1|       |
| 2744    | YNHH-0576| 2022;13| 26.8  | 26.6|       |
| 2745    | YNHH-0578| 2022;13| 21.8  | 21.6|       |
| 2746    | YNHH-0594| 2022;13| 19.4  | 19.6|       |
| 2747    | YNHH-0601| 2022;13| 18.7  | 18.8|       |
| 2748    | YNHH-0615| 2022;13| 25.9  | 25.7|       |
| 2749    | YNHH-0632| 2022;13| 20.7  | 20.3|       |
| 2750    | YNHH-0647| 2022;13| 27.4  | 27  |       |
| 2751    | YNHH-0668| 2022;13| 21.1  | 20.6|       |
| 2752    | YNHH-0680| 2022;13| 28.2  | 27.8|       |
| 2753    | YNHH-0686| 2022;13| 25.8  | 25.4|       |
| 2754    | YNHH-0690| 2022;13| 29    | 28.5|       |
| 2755    | YNHH-0694| 2022;13| 27.7  | 27.1|       |
| 2756    | YNHH-0695| 2022;13| 29.7  | 29  |       |
| 2757    | YNHH-0704| 2022;13| 29.2  | 28.7|       |
| 2758    | YNHH-0709| 2022;13| 27    | 26.7|       |
| 2759    | YNHH-0722| 2022;13| 27.3  | 27.1|       |
| 2760    | YNHH-0729| 2022;13| 27.1  | 27  |       |
| 2761    | YNHH-0737| 2022;13| 22.2  | 21.9|       |
| 2762    | YNHH-0738| 2022;13| 28.3  | 27.9|       |
| 2763    | YNHH-0751| 2022;14| 19.5  | 19.2|       |
| 2764    | YNHH-0759| 2022;14| 28.7  | 28.1|       |
| 2765    | YNHH-0771| 2022;14| 28.7  | 28.2|       |
| 2766    | YNHH-0780| 2022;14| 24.2  | 23.9|       |
| 2767    | YNHH-0781| 2022;14| 24.3  | 24  |       |
| 2768    | YNHH-0783| 2022;14| 21.6  | 21.4|       |
| 2769    | YNHH-0786| 2022;14| 29.6  | 29.3|       |
| 2770    | YNHH-0788| 2022;14| 16.9  | 16.6|       |
| 2771    | YNHH-0790| 2022;14| 20.5  | 20.1|       |
| 2772    | YNHH-0792| 2022;14| 17    | 16.7|       |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

| A   | B         | C  | D  | E  | F  |
|-----|-----------|----|----|----|----|
| 2773| YNHH-0793| 2022;14 | 28 | 27.8 |
| 2774| YNHH-0795| 2022;14 | 23.6 | 23.4 |
| 2775| YNHH-0796| 2022;14 | 28.5 | 28 |
| 2776| YNHH-0798| 2022;14 | 22.1 | 22 |
| 2777| YNHH-0799| 2022;14 | 18.9 | 18.5 |
| 2778| YNHH-0800| 2022;14 | 28.6 | 28.4 |
| 2779| YNHH-0806| 2022;14 | 21.1 | 21 |
| 2780| YNHH-0807| 2022;14 | 21.4 | 21.6 |
| 2781| YNHH-0816| 2022;14 | 20.1 | 19.8 |
| 2782| YNHH-0819| 2022;14 | 15.9 | 16 |
| 2783| YNHH-0820| 2022;14 | 20.5 | 20.3 |
| 2784| YNHH-0821| 2022;14 | 18 | 17.9 |
| 2785| YNHH-0823| 2022;14 | 25.3 | 25.2 |
| 2786| YNHH-0825| 2022;14 | 27.1 | 26.9 |
| 2787| YNHH-0826| 2022;14 | 28 | 27.7 |
| 2788| YNHH-0827| 2022;14 | 26.3 | 25.8 |
| 2789| YNHH-0828| 2022;14 | 25.6 | 25.4 |
| 2790| YNHH-0829| 2022;14 | 21.9 | 21.7 |
| 2791| YNHH-0831| 2022;14 | 26 | 25.8 |
| 2792| YNHH-0833| 2022;14 | 21.1 | 21.4 |
| 2793| YNHH-0837| 2022;14 | 25.8 | 25.6 |
| 2794| YNHH-0838| 2022;14 | 29 | 28.7 |
| 2795| YNHH-0842| 2022;14 | 25.4 | 25.2 |
| 2796| YNHH-0844| 2022;14 | 21.8 | 21.6 |
| 2797| YNHH-0846| 2022;14 | 21.9 | 21.9 |
| 2798| YNHH-0848| 2022;14 | 27.4 | 27.2 |
| 2799| YNHH-0849| 2022;14 | 19.1 | 19 |
| 2800| YNHH-0850| 2022;14 | 22.7 | 22.5 |
| 2801| YNHH-0852| 2022;14 | 19.1 | 18.9 |
| 2802| YNHH-0854| 2022;14 | 22 | 21.7 |
| 2803| YNHH-0855| 2022;14 | 17.6 | 17.4 |
| 2804| YNHH-0857| 2022;14 | 24.2 | 23.9 |
| 2805| YNHH-0863| 2022;14 | 20.2 | 20.1 |
| 2806| YNHH-0865| 2022;14 | 22.9 | 22.6 |
| 2807| YNHH-0866| 2022;14 | 21.4 | 21.2 |
| 2808| YNHH-0867| 2022;14 | 19 | 18.6 |
| 2809| YNHH-0868| 2022;14 | 24.6 | 24.3 |
| 2810| YNHH-0869| 2022;14 | 24.3 | 24.2 |
| 2811| YNHH-0870| 2022;14 | 23.5 | 23.2 |
| 2812| YNHH-0875| 2022;14 | 22.2 | 21.9 |
| 2813| YNHH-0877| 2022;14 | 21 | 20.8 |
| 2814| YNHH-0879| 2022;14 | 21.5 | 21.1 |
| 2815| YNHH-0883| 2022;14 | 20.9 | 20.3 |
| 2816| YNHH-0884| 2022;14 | 17.9 | 17.8 |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

| A         | B         | C   | D   | E   | F   |
|-----------|-----------|-----|-----|-----|-----|
| 2817      | YNHH-0886| 2022;14 | 21.4 | 21.3 |     |
| 2818      | YNHH-0888| 2022;14 | 19.4 | 19.1 |     |
| 2819      | YNHH-0891| 2022;14 | 17.4 |  17 |     |
| 2820      | YNHH-0894| 2022;14 | 22.8 | 22.6 |     |
| 2821      | YNHH-0895| 2022;14 | 26.6 | 26.4 |     |
| 2822      | YNHH-0897| 2022;14 | 24.5 | 24.2 |     |
| 2823      | YNHH-0898| 2022;14 | 18.4 |  18 |     |
| 2824      | YNHH-0901| 2022;14 | 18.3 | 18.2 |     |
| 2825      | YNHH-0903| 2022;14 | 18.9 | 18.6 |     |
| 2826      | YNHH-0904| 2022;14 | 19.7 | 19.2 |     |
| 2827      | YNHH-0907| 2022;14 | 26.4 | 26.3 |     |
| 2828      | YNHH-0910| 2022;14 | 29.8 |  29 |     |
| 2829      | YNHH-0911| 2022;14 | 19.4 | 19.2 |     |
| 2830      | YNHH-0912| 2022;14 | 19.5 | 19.3 |     |
| 2831      | YNHH-0915| 2022;14 | 25.3 | 25.1 |     |
| 2832      | YNHH-0916| 2022;14 | 27.5 | 26.8 |     |
| 2833      | YNHH-0917| 2022;14 | 19.7 | 19.6 |     |
| 2834      | YNHH-0918| 2022;14 | 20.2 | 19.8 |     |
| 2835      | YNHH-0920| 2022;14 | 28.4 | 27.8 |     |
| 2836      | YNHH-0921| 2022;14 | 19.6 | 19.3 |     |
| 2837      | YNHH-0924| 2022;14 | 20  | 19.8 |     |
| 2838      | YNHH-0925| 2022;14 | 20.2 | 19.8 |     |
| 2839      | YNHH-0926| 2022;14 | 22.2 | 22.1 |     |
| 2840      | YNHH-0928| 2022;14 | 27.2 | 26.9 |     |
| 2841      | YNHH-0929| 2022;14 | 20.2 |  20 |     |
| 2842      | YNHH-0932| 2022;14 | 25.4 | 25.4 |     |
| 2843      | YNHH-0934| 2022;14 | 25.1 |  25 |     |
| 2844      | YNHH-0937| 2022;14 | 18.9 | 18.8 |     |
| 2845      | YNHH-0940| 2022;14 | 19.9 | 19.8 |     |
| 2846      | YNHH-0941| 2022;14 | 19.5 | 19.3 |     |
| 2847      | YNHH-0943| 2022;14 | 17.7 | 17.7 |     |
| 2848      | YNHH-0946| 2022;14 | 26.8 | 26.5 |     |
| 2849      | YNHH-0947| 2022;14 | 21.6 | 21.2 |     |
| 2850      | YNHH-0948| 2022;14 | 21.8 | 21.8 |     |
| 2851      | YNHH-0950| 2022;14 | 22.2 | 21.9 |     |
| 2852      | YNHH-0951| 2022;14 |  18 | 17.9 |     |
| 2853      | YNHH-0952| 2022;14 | 27  | 26.8 |     |
| 2854      | YNHH-0954| 2022;14 | 22.7 | 22.6 |     |
| 2855      | YNHH-0955| 2022;14 | 19.5 | 19.4 |     |
| 2856      | YNHH-0956| 2022;14 | 24.7 | 24.3 |     |
| 2857      | YNHH-0957| 2022;14 | 21.5 | 21.3 |     |
| 2858      | YNHH-0959| 2022;14 |  26 | 25.8 |     |
| 2859      | YNHH-0960| 2022;14 |  21 | 20.9 |     |
| 2860      | YNHH-0961| 2022;14 | 20.4 | 20.6 |     |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|     |          |       |     |     |     |     |
|-----|----------|-------|-----|-----|-----|-----|
| A   |          | B     | C   | D   | E   | F   |
| 2861| YNHH-0962| 2022;14 | 18.3| 18.1|
| 2862| YNHH-0966| 2022;14 | 21.2| 20.9|
| 2863| YNHH-0967| 2022;14 | 18   | 17.8|
| 2864| YNHH-0970| 2022;14 | 15.6| 15.7|
| 2865| YNHH-0971| 2022;14 | 27.1| 26.9|
| 2866| YNHH-0972| 2022;14 | 19.2| 18.8|
| 2867| YNHH-0974| 2022;14 | 16.4| 16.1|
| 2868| YNHH-0975| 2022;14 | 15.2| 15   |
| 2869| YNHH-0978| 2022;14 | 20   | 19.8|
| 2870| YNHH-0979| 2022;14 | 29.4| 28.9|
| 2871| YNHH-0980| 2022;14 | 18.2| 18   |
| 2872| YNHH-0981| 2022;14 | 18.3| 18.2|
| 2873| YNHH-0986| 2022;14 | 21.9| 21.7|
| 2874| YNHH-0987| 2022;14 | 19   | 18.7|
| 2875| YNHH-0988| 2022;14 | 27.5| 27.5|
| 2876| YNHH-0989| 2022;14 | 29.5| 29.5|
| 2877| YNHH-0991| 2022;14 | 19.5| 19.6|
| 2878| YNHH-0992| 2022;14 | 26.4| 26.1|
| 2879| YNHH-0994| 2022;14 | 18.4| 18.4|
| 2880| YNHH-0995| 2022;14 | 23.4| 23.1|
| 2881| YNHH-0996| 2022;14 | 19.8| 19.6|
| 2882| YNHH-0999| 2022;14 | 17.2| 17.5|
| 2883| YNHH-1000| 2022;14 | 19.7| 19.6|
| 2884| YNHH-1001| 2022;14 | 21.8| 21.6|
| 2885| YNHH-1002| 2022;14 | 19.7| 19.7|
| 2886| YNHH-1003| 2022;14 | 18.6| 18.4|
| 2887| YNHH-1005| 2022;14 | 22.1| 21.9|
| 2888| YNHH-1006| 2022;14 | 22.1| 22   |
| 2889| YNHH-1007| 2022;14 | 22.7| 22.4|
| 2890| YNHH-1008| 2022;14 | 21.9| 21.8|
| 2891| YNHH-1009| 2022;14 | 16.9| 16.7|
| 2892| YNHH-1011| 2022;14 | 24.7| 24.7|
| 2893| YNHH-1012| 2022;14 | 21   | 20.9|
| 2894| YNHH-1013| 2022;14 | 19.5| 19.4|
| 2895| YNHH-1014| 2022;14 | 17.5| 17.2|
| 2896| YNHH-1015| 2022;14 | 22.7| 22.4|
| 2897| YNHH-1016| 2022;14 | 25   | 25   |
| 2898| YNHH-1017| 2022;14 | 22.1| 21.6|
| 2899| YNHH-1018| 2022;14 | 16.3| 16.5|
| 2900| YNHH-1019| 2022;14 | 19.1| 18.9|
| 2901| YNHH-1021| 2022;14 | 22.4| 22.3|
| 2902| YNHH-1022| 2022;14 | 25.8| 25.6|
| 2903| YNHH-1025| 2022;14 | 18.2| 18.2|
| 2904| YNHH-1027| 2022;14 | 25.7| 25.6|

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Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

| A     | B        | C       | D       | E       | F       |
|-------|----------|---------|---------|---------|---------|
| 2905  | YNHH-1029| 2022;14 | 25.8    | 25.5    |         |
| 2906  | YNHH-1031| 2022;14 | 25.1    | 24.5    |         |
| 2907  | YNHH-1032| 2022;14 | 24.6    | 24.5    |         |
| 2908  | YNHH-1033| 2022;14 | 30      | 29.6    |         |
| 2909  | YNHH-1034| 2022;14 | 24.5    | 24.3    |         |
| 2910  | YNHH-1035| 2022;14 | 27.9    | 27.5    |         |
| 2911  | YNHH-1036| 2022;14 | 24      | 24.3    |         |
| 2912  | YNHH-1038| 2022;14 | 18.8    | 18.6    |         |
| 2913  | YNHH-1040| 2022;14 | 18.6    | 18.5    |         |
| 2914  | YNHH-1043| 2022;14 | 25.2    | 25      |         |
| 2915  | YNHH-1044| 2022;14 | 29.3    | 28.9    |         |
| 2916  | YNHH-1045| 2022;14 | 26.4    | 26.1    |         |
| 2917  | YNHH-1047| 2022;14 | 20      | 19.9    |         |
| 2918  | YNHH-1048| 2022;14 | 28.5    | 28.4    |         |
| 2919  | YNHH-1051| 2022;14 | 20.5    | 20.5    |         |
| 2920  | YNHH-1052| 2022;14 | 17.1    | 17.1    |         |
| 2921  | YNHH-1053| 2022;14 | 24.5    | 24.3    |         |
| 2922  | YNHH-1056| 2022;14 | 17.3    | 17.1    |         |
| 2923  | YNHH-1057| 2022;14 | 18.2    | 18      |         |
| 2924  | YNHH-1060| 2022;14 | 20.5    | 20.4    |         |
| 2925  | YNHH-1062| 2022;14 | 18.7    | 18.4    |         |
| 2926  | YNHH-1064| 2022;14 | 18.8    | 18.6    |         |
| 2927  | YNHH-1065| 2022;14 | 20.7    | 20.5    |         |
| 2928  | YNHH-1066| 2022;14 | 22.9    | 22.7    |         |
| 2929  | YNHH-1067| 2022;14 | 29.7    | 29.4    |         |
| 2930  | YNHH-1068| 2022;14 | 19.2    | 19.1    |         |
| 2931  | YNHH-1070| 2022;14 | 29.7    | 29.4    |         |
| 2932  | YNHH-1074| 2022;14 | 20.9    | 20.8    |         |
| 2933  | YNHH-1075| 2022;14 | 17.4    | 17.3    |         |
| 2934  | YNHH-1076| 2022;14 | 17.7    | 17.5    |         |
| 2935  | YNHH-1077| 2022;14 | 24.5    | 24.1    |         |
| 2936  | YNHH-1079| 2022;14 | 21.4    | 21.1    |         |
| 2937  | YNHH-1080| 2022;14 | 19.3    | 19.4    |         |
| 2938  | YNHH-1081| 2022;14 | 24.6    | 24.4    |         |
| 2939  | YNHH-1083| 2022;14 | 28.3    | 28.1    |         |
| 2940  | YNHH-1085| 2022;14 | 17.9    | 17.6    |         |
| 2941  | YNHH-1086| 2022;14 | 18.8    | 18.7    |         |
| 2942  | YNHH-1088| 2022;14 | 21.4    | 21.4    |         |
| 2943  | YNHH-1091| 2022;14 | 24.9    | 24.7    |         |
| 2944  | YNHH-1092| 2022;14 | 23.7    | 23.6    |         |
| 2945  | YNHH-1093| 2022;14 | 19.6    | 19.5    |         |
| 2946  | YNHH-1094| 2022;14 | 18.1    | 18      |         |
| 2947  | YNHH-1095| 2022;14 | 23.6    | 23.3    |         |
| 2948  | YNHH-1097| 2022;14 | 16.7    | 16.6    |         |
### Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

| A    | B               | C   | D   | E   | F   |
|------|-----------------|-----|-----|-----|-----|
| 2949 | YNHH-1100       | 2022;14 | 23.7 | 23.5 |
| 2950 | YNHH-1101       | 2022;14 | 25.2 | 25  |
| 2951 | YNHH-1105       | 2022;14 | 18.8 | 18.7 |
| 2952 | YNHH-1106       | 2022;14 | 26.8 | 26.5 |
| 2953 | YNHH-1107       | 2022;14 | 16.3 | 16  |
| 2954 | YNHH-1111       | 2022;14 | 19.3 | 19.2 |
| 2955 | YNHH-1112       | 2022;14 | 25.9 | 25.7 |
| 2956 | YNHH-1114       | 2022;14 | 20.6 | 20.3 |
| 2957 | YNHH-1116       | 2022;14 | 22.1 | 22.3 |
| 2958 | YNHH-1117       | 2022;14 | 17.5 | 17.4 |
| 2959 | YNHH-1118       | 2022;14 | 20.8 | 20.7 |
| 2960 | YNHH-1119       | 2022;14 | 24.3 | 24.2 |
| 2961 | YNHH-1120       | 2022;14 | 19.9 | 19.9 |
| 2962 | YNHH-1121       | 2022;14 | 27.9 | 27.7 |
| 2963 | YNHH-1122       | 2022;14 | 26.2 | 25.9 |
| 2964 | YNHH-1126       | 2022;14 | 28.5 | 28.2 |
| 2965 | YNHH-1127       | 2022;14 | 19.3 | 19.3 |
| 2966 | YNHH-1128       | 2022;14 | 18.4 | 18.5 |
| 2967 | YNHH-1129       | 2022;14 | 25.4 | 25  |
| 2968 | YNHH-1131       | 2022;14 | 22.3 | 22.3 |
| 2969 | YNHH-1132       | 2022;14 | 18.5 | 18.4 |
| 2970 | YNHH-1133       | 2022;14 | 20.6 | 20.5 |
| 2971 | YNHH-1134       | 2022;14 | 26.7 | 26.5 |
| 2972 | YNHH-1135       | 2022;14 | 16.8 | 16.8 |
| 2973 | YNHH-1137       | 2022;14 | 19.8 | 19.7 |
| 2974 | YNHH-1138       | 2022;14 | 20.2 | 19.9 |
| 2975 | YNHH-1139       | 2022;14 | 19.5 | 19.3 |
| 2976 | YNHH-1141       | 2022;14 | 23.7 | 23.6 |
| 2977 | YNHH-1142       | 2022;14 | 23.2 | 23.2 |
| 2978 | YNHH-1143       | 2022;14 | 21.4 | 21.2 |
| 2979 | YNHH-1144       | 2022;14 | 19  | 18.7 |
| 2980 | YNHH-1145       | 2022;14 | 21.6 | 21.5 |
| 2981 | YNHH-1146       | 2022;14 | 21.6 | 21.5 |
| 2982 | YNHH-1147       | 2022;14 | 21.9 | 21.7 |
| 2983 | YNHH-1148       | 2022;14 | 22.3 | 22.1 |
| 2984 | YNHH-1149       | 2022;14 | 21  | 20.9 |
| 2985 | YNHH-1150       | 2022;14 | 20.2 | 20.3 |
| 2986 | YNHH-1152       | 2022;14 | 20.2 | 20.3 |
| 2987 | YNHH-1156       | 2022;14 | 23.3 | 23  |
| 2988 | YNHH-1157       | 2022;14 | 19  | 18.9 |
| 2989 | YNHH-1158       | 2022;14 | 28.8 | 28.6 |
| 2990 | YNHH-1159       | 2022;14 | 16.6 | 16.5 |
| 2991 | YNHH-1160       | 2022;14 | 29.9 | 29.4 |
| 2992 | YNHH-1161       | 2022;15 | 24.5 | 24.4 |

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|   |   |   |   |   |
|---|---|---|---|---|
| A | B  | C  | D  | E  |
| 2993 | YNHH-1163 | 2022;15 | 28.9 | 28.8 |
| 2994 | YNHH-1165 | 2022;15 | 24.3 | 24.1 |
| 2995 | YNHH-1167 | 2022;15 | 21.8 | 22.3 |
| 2996 | YNHH-1168 | 2022;15 | 25.2 | 25.3 |
| 2997 | YNHH-1170 | 2022;15 | 26.7 | 26.4 |
| 2998 | YNHH-1171 | 2022;15 | 20  | 20  |
| 2999 | YNHH-1172 | 2022;15 | 23.6 | 23.3 |
| 3000 | YNHH-1173 | 2022;15 | 21.5 | 21.2 |
| 3001 | YNHH-1175 | 2022;15 | 21.9 | 21.8 |
| 3002 | YNHH-1176 | 2022;15 | 24.5 | 24.4 |
| 3003 | YNHH-1177 | 2022;15 | 19.2 | 19  |
| 3004 | YNHH-1178 | 2022;15 | 28.3 | 27.9 |
| 3005 | YNHH-1179 | 2022;15 | 18.1 | 18  |
| 3006 | YNHH-1181 | 2022;15 | 17.2 | 17  |
| 3007 | YNHH-1184 | 2022;15 | 25.9 | 25.5 |
| 3008 | YNHH-1185 | 2022;15 | 25  | 24.6 |
| 3009 | YNHH-1186 | 2022;15 | 22  | 21.5 |
| 3010 | YNHH-1187 | 2022;15 | 25.7 | 25.6 |
| 3011 | YNHH-1188 | 2022;15 | 29.8 | 29.4 |
| 3012 | YNHH-1189 | 2022;15 | 20.3 | 20.1 |
| 3013 | YNHH-1190 | 2022;15 | 29.7 | 29.5 |
| 3014 | YNHH-1191 | 2022;15 | 21.5 | 21.2 |
| 3015 | YNHH-1194 | 2022;15 | 25.9 | 25.6 |
| 3016 | YNHH-1196 | 2022;15 | 19.5 | 19.4 |
| 3017 | YNHH-1197 | 2022;15 | 20.5 | 20.3 |
| 3018 | YNHH-1198 | 2022;15 | 23  | 23.1 |
| 3019 | YNHH-1201 | 2022;15 | 24.7 | 24.7 |
| 3020 | YNHH-1202 | 2022;15 | 24.7 | 24.7 |
| 3021 | YNHH-1203 | 2022;15 | 24.8 | 24.5 |
| 3022 | YNHH-1204 | 2022;15 | 23.5 | 23.3 |
| 3023 | YNHH-1205 | 2022;15 | 21.5 | 21.3 |
| 3024 | YNHH-1206 | 2022;15 | 29.9 | 29.4 |
| 3025 | YNHH-1207 | 2022;15 | 21.3 | 21.1 |
| 3026 | YNHH-1208 | 2022;15 | 22.1 | 21.8 |
| 3027 | YNHH-1209 | 2022;15 | 17  | 17  |
| 3028 | YNHH-1210 | 2022;15 | 23.6 | 23.5 |
| 3029 | YNHH-1211 | 2022;15 | 25.8 | 25.6 |
| 3030 | YNHH-1212 | 2022;15 | 18.8 | 18.7 |
| 3031 | YNHH-1213 | 2022;15 | 21.1 | 20.8 |
| 3032 | YNHH-1214 | 2022;15 | 22  | 21.8 |
| 3033 | YNHH-1215 | 2022;15 | 28.4 | 28  |
| 3034 | YNHH-1217 | 2022;15 | 20.7 | 20.7 |
| 3035 | YNHH-1220 | 2022;15 | 19.8 | 19.6 |
| 3036 | YNHH-1222 | 2022;15 | 26  | 25.9 |
| A         | B               | C   | D   | E   | F   |
|-----------|-----------------|-----|-----|-----|-----|
| 3037 YNHH-1223 | 2022;15         | 19  | 19.1|     |     |
| 3038 YNHH-1224 | 2022;15         | 18.6| 19.1|     |     |
| 3039 YNHH-1226 | 2022;15         | 26.4| 26.1|     |     |
| 3040 YNHH-1229 | 2022;15         | 22.9| 22.4|     |     |
| 3041 YNHH-1230 | 2022;15         | 19.7| 19.5|     |     |
| 3042 YNHH-1231 | 2022;15         | 29.8| 29.4|     |     |
| 3043 YNHH-1232 | 2022;15         | 27.7| 27.4|     |     |
| 3044 YNHH-1233 | 2022;15         | 23.5| 23.4|     |     |
| 3045 YNHH-1238 | 2022;15         | 18.7| 18.7|     |     |
| 3046 YNHH-1240 | 2022;15         | 26  | 25.7|     |     |
| 3047 YNHH-1242 | 2022;15         | 20.9| 20.7|     |     |
| 3048 YNHH-1244 | 2022;15         | 17.9| 17.8|     |     |
| 3049 YNHH-1245 | 2022;15         | 28.3| 28.4|     |     |
| 3050 YNHH-1247 | 2022;15         | 25  | 25  |     |     |
| 3051 YNHH-1248 | 2022;15         | 26.9| 26.6|     |     |
| 3052 YNHH-1250 | 2022;15         | 16.9| 16.2|     |     |
| 3053 YNHH-1252 | 2022;15         | 25.4| 25.3|     |     |
| 3054 YNHH-1254 | 2022;15         | 22.6| 22.8|     |     |
| 3055 YNHH-1255 | 2022;15         | 19.4| 19  |     |     |
| 3056 YNHH-1256 | 2022;15         | 24.8| 24.2|     |     |
| 3057 YNHH-1257 | 2022;15         | 22.7| 22.5|     |     |
| 3058 YNHH-1260 | 2022;15         | 28  | 27.7|     |     |
| 3059 YNHH-1261 | 2022;15         | 23.4| 23.3|     |     |
| 3060 YNHH-1263 | 2022;15         | 17.5| 17.6|     |     |
| 3061 YNHH-1264 | 2022;15         | 18.2| 18.2|     |     |
| 3062 YNHH-1265 | 2022;15         | 23.4| 23.2|     |     |
| 3063 YNHH-1267 | 2022;15         | 21.5| 21.6|     |     |
| 3064 YNHH-1268 | 2022;15         | 22.9| 22.9|     |     |
| 3065 YNHH-1269 | 2022;15         | 26.4| 26.2|     |     |
| 3066 YNHH-1270 | 2022;15         | 23.1| 22.8|     |     |
| 3067 YNHH-1271 | 2022;15         | 18.3| 18.1|     |     |
| 3068 YNHH-1272 | 2022;15         | 18  | 17.8|     |     |
| 3069 YNHH-1275 | 2022;15         | 18  | 17.8|     |     |
| 3070 YNHH-1276 | 2022;15         | 17.1| 17.3|     |     |
| 3071 YNHH-1277 | 2022;15         | 17.5| 17.3|     |     |
| 3072 YNHH-1278 | 2022;15         | 20.8| 20.9|     |     |
| 3073 YNHH-1280 | 2022;15         | 21.7| 21.8|     |     |
| 3074 YNHH-1282 | 2022;15         | 23  | 22.8|     |     |
| 3075 YNHH-1283 | 2022;15         | 24.4| 24.3|     |     |
| 3076 YNHH-1287 | 2022;15         | 27.5| 27  |     |     |
| 3077 YNHH-1288 | 2022;15         | 23.9| 23.7|     |     |
| 3078 YNHH-1289 | 2022;15         | 19.6| 19.7|     |     |
| 3079 YNHH-1290 | 2022;15         | 16.8| 16.9|     |     |
| 3080 YNHH-1291 | 2022;15         | 17.6| 17.3|     |     |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

| A    | B                  | C  | D  | E  | F  |
|------|--------------------|----|----|----|----|
| 3081 | YNHH-1292          | 20 | 19.5 |    |    |
| 3082 | YNHH-1293          | 28.5 | 28.2 |    |    |
| 3083 | YNHH-1297          | 19 | 18.6 |    |    |
| 3084 | YNHH-1299          | 22.1 | 21.9 |    |    |
| 3085 | YNHH-1300          | 29.2 | 29.1 |    |    |
| 3086 | YNHH-1303          | 27.5 | 27.9 |    |    |
| 3087 | YNHH-1305          | 27.8 | 27.3 |    |    |
| 3088 | YNHH-1306          | 20.8 | 21.2 |    |    |
| 3089 | YNHH-1307          | 21.2 | 21.2 |    |    |
| 3090 | YNHH-1309          | 18.3 | 18.4 |    |    |
| 3091 | YNHH-1310          | 23.9 | 23.8 |    |    |
| 3092 | YNHH-1311          | 16.7 | 16.7 |    |    |
| 3093 | YNHH-1313          | 26 | 25.8 |    |    |
| 3094 | YNHH-1314          | 16.5 | 16.6 |    |    |
| 3095 | YNHH-1320          | 16.5 | 16.2 |    |    |
| 3096 | YNHH-1326          | 20.5 | 20.4 |    |    |
| 3097 | YNHH-1327          | 26.8 | 26.4 |    |    |
| 3098 | YNHH-1328          | 25.1 | 24.8 |    |    |
| 3099 | YNHH-1329          | 16.9 | 16.8 |    |    |
| 3100 | YNHH-1332          | 18.9 | 18.8 |    |    |
| 3101 | YNHH-1339          | 24.1 | 23.9 |    |    |
| 3102 | YNHH-1340          | 27.24 | 26.82 |    |    |
| 3103 | YNHH-1342          | 19.8 | 20.2 |    |    |
| 3104 | YNHH-1344          | 20.68 | 20.37 |    |    |
| 3105 | YNHH-1346          | 26.1 | 25.9 |    |    |
| 3106 | YNHH-1349          | 21.19 | 20.59 |    |    |
| 3107 | YNHH-1351          | 19.4 | 19.3 |    |    |
| 3108 | YNHH-1353          | 19.7 | 19.4 |    |    |
| 3109 | YNHH-1357          | 19.4 | 18.93 |    |    |
| 3110 | YNHH-1359          | 21.8 | 21.5 |    |    |
| 3111 | YNHH-1360          | 16.8 | 16.8 |    |    |
| 3112 | YNHH-1361          | 24.2 | 24.1 |    |    |
| 3113 | YNHH-1362          | 22.3 | 22.2 |    |    |
| 3114 | YNHH-1363          | 20.3 | 20.3 |    |    |
| 3115 | YNHH-1364          | 22.5 | 22.1 |    |    |
| 3116 | YNHH-1365          | 18.1 | 18.1 |    |    |
| 3117 | YNHH-1366          | 21.8 | 21.7 |    |    |
| 3118 | YNHH-1370          | 25.2 | 24.9 |    |    |
| 3119 | YNHH-1371          | 23.18 | 22.91 |    |    |
| 3120 | YNHH-1373          | 17.97 | 18.01 |    |    |
| 3121 | YNHH-1374          | 23.8 | 23.7 |    |    |
| 3122 | YNHH-1375          | 27.5 | 27.2 |    |    |
| 3123 | YNHH-1376          | 22.5 | 22.3 |    |    |
| 3124 | YNHH-1379          | 23.3 | 23.3 |    |    |

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pOGTF. Rodino et al, 2022.
|   | A       | B       | C   | D   | E   | F   |
|---|---------|---------|-----|-----|-----|-----|
| 3125 | YNHH-1383 | 2022;15 | 17.2 | 17.3 |     |     |
| 3126 | YNHH-1386 | 2022;15 | 25.92 | 25.26 |     |     |
| 3127 | YNHH-1388 | 2022;15 | 18.3 | 18.3 |     |     |
| 3128 | YNHH-1390 | 2022;15 | 21.7 | 21.7 |     |     |
| 3129 | YNHH-1391 | 2022;15 | 25.6 | 25.5 |     |     |
| 3130 | YNHH-1393 | 2022;15 | 19.9 | 20.1 |     |     |
| 3131 | YNHH-1395 | 2022;15 | 21.3 | 21.1 |     |     |
| 3132 | YNHH-1396 | 2022;15 | 24.1 | 23.9 |     |     |
| 3133 | YNHH-1397 | 2022;15 | 23.21 | 22.87 |     |     |
| 3134 | YNHH-1412 | 2022;15 | 20.4 | 20.5 |     |     |
| 3135 | YNHH-1413 | 2022;15 | 21.76 | 21.74 |     |     |
| 3136 | YNHH-1414 | 2022;15 | 28.77 | 28.38 |     |     |
| 3137 | YNHH-1419 | 2022;15 | 19.01 | 18.88 |     |     |
| 3138 | YNHH-1422 | 2022;15 | 18.5 | 18.5 |     |     |
| 3139 | YNHH-1423 | 2022;15 | 20.8 | 20.5 |     |     |
| 3140 | YNHH-1425 | 2022;15 | 23.49 | 23.2 |     |     |
| 3141 | YNHH-1428 | 2022;15 | 20.3 | 20.2 |     |     |
| 3142 | YNHH-1429 | 2022;15 | 22.69 | 22.54 |     |     |
| 3143 | YNHH-1434 | 2022;15 | 17.8 | 17.4 |     |     |
| 3144 | YNHH-1435 | 2022;15 | 17.21 | 16.99 |     |     |
| 3145 | YNHH-1438 | 2022;15 | 23.22 | 22.77 |     |     |
| 3146 | YNHH-1440 | 2022;15 | 24.6 | 24.4 |     |     |
| 3147 | YNHH-1441 | 2022;15 | 20.9 | 20.7 |     |     |
| 3148 | YNHH-1444 | 2022;15 | 17.5 | 17.1 |     |     |
| 3149 | YNHH-1446 | 2022;15 | 29.3 | 28.6 |     |     |
| 3150 | YNHH-1447 | 2022;15 | 24.52 | 24.34 |     |     |
| 3151 | YNHH-1450 | 2022;15 | 26.4 | 26.4 |     |     |
| 3152 | YNHH-1451 | 2022;15 | 26.5 | 26.3 |     |     |
| 3153 | YNHH-1453 | 2022;15 | 27.5 | 27.3 |     |     |
| 3154 | YNHH-1454 | 2022;15 | 24.3 | 24   |     |     |
| 3155 | YNHH-1455 | 2022;15 | 19.8 | 19.9 |     |     |
| 3156 | YNHH-1457 | 2022;15 | 18.5 | 18.4 |     |     |
| 3157 | YNHH-1462 | 2022;15 | 17.3 | 17.1 |     |     |
| 3158 | YNHH-1463 | 2022;15 | 22.5 | 22.4 |     |     |
| 3159 | YNHH-1471 | 2022;15 | 23.6 | 23.6 |     |     |
| 3160 | YNHH-1472 | 2022;15 | 20.1 | 20.3 |     |     |
| 3161 | YNHH-1474 | 2022;15 | 20.8 | 20.7 |     |     |
| 3162 | YNHH-1475 | 2022;15 | 19.8 | 19.8 |     |     |
| 3163 | YNHH-1476 | 2022;15 | 18.8 | 18.6 |     |     |
| 3164 | YNHH-1479 | 2022;15 | 23.3 | 23.2 |     |     |
| 3165 | YNHH-1481 | 2022;15 | 17.6 | 17.7 |     |     |
| 3166 | YNHH-1482 | 2022;15 | 23.7 | 23.6 |     |     |
| 3167 | YNHH-1485 | 2022;15 | 27.2 | 27   |     |     |
| 3168 | YNHH-1486 | 2022;15 | 27   | 26.8 |     |     |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|   |   |   |   |   |
|---|---|---|---|---|
| A | B | C | D | E |
| 3169 | YNHH-1487 | 2022;15 | 24 | 23.8 |
| 3170 | YNHH-1488 | 2022;15 | 29 | 28.3 |
| 3171 | YNHH-1493 | 2022;15 | 19 | 18.9 |
| 3172 | YNHH-1494 | 2022;15 | 27.3 | 27.1 |
| 3173 | YNHH-1496 | 2022;15 | 19.5 | 19.3 |
| 3174 | YNHH-1497 | 2022;15 | 18.9 | 18.7 |
| 3175 | YNHH-1498 | 2022;15 | 17.1 | 17 |
| 3176 | YNHH-1499 | 2022;15 | 27.2 | 26.9 |
| 3177 | YNHH-1501 | 2022;15 | 24.6 | 24.6 |
| 3178 | YNHH-1507 | 2022;15 | 23.6 | 23.6 |
| 3179 | YNHH-1509 | 2022;15 | 17.5 | 17.5 |
| 3180 | YNHH-1510 | 2022;15 | 25.2 | 25 |
| 3181 | YNHH-1511 | 2022;15 | 21.7 | 21.4 |
| 3182 | YNHH-1513 | 2022;15 | 25.2 | 25.1 |
| 3183 | YNHH-1514 | 2022;15 | 29.1 | 28.5 |
| 3184 | YNHH-1516 | 2022;15 | 25.7 | 25.4 |
| 3185 | YNHH-1517 | 2022;15 | 27.1 | 26.8 |
| 3186 | YNHH-1518 | 2022;15 | 21.6 | 21.1 |
| 3187 | YNHH-1519 | 2022;15 | 17.4 | 17.6 |
| 3188 | YNHH-1523 | 2022;15 | 19.5 | 19.1 |
| 3189 | YNHH-1525 | 2022;15 | 19 | 19.1 |
| 3190 | YNHH-1526 | 2022;15 | 15.8 | 15.5 |
| 3191 | YNHH-1527 | 2022;15 | 20.6 | 20.4 |
| 3192 | YNHH-1530 | 2022;15 | 23 | 22.7 |
| 3193 | YNHH-1531 | 2022;15 | 25.6 | 25.4 |
| 3194 | YNHH-1532 | 2022;15 | 26.3 | 26.1 |
| 3195 | YNHH-1534 | 2022;15 | 30 | 29.7 |
| 3196 | YNHH-1545 | 2022;15 | 21.8 | 21.5 |
| 3197 | YNHH-1547 | 2022;15 | 19.9 | 19.9 |
| 3198 | YNHH-1548 | 2022;15 | 23.2 | 22.9 |
| 3199 | YNHH-1549 | 2022;15 | 26 | 25.7 |
| 3200 | YNHH-1550 | 2022;15 | 25.2 | 25 |
| 3201 | YNHH-1552 | 2022;15 | 29.2 | 28.6 |
| 3202 | YNHH-1554 | 2022;15 | 19.4 | 19.3 |
| 3203 | YNHH-1556 | 2022;15 | 20.8 | 20.5 |
| 3204 | YNHH-1557 | 2022;15 | 18.9 | 18.7 |
| 3205 | YNHH-1558 | 2022;15 | 22.9 | 22.8 |
| 3206 | YNHH-1560 | 2022;15 | 17.5 | 17.4 |
| 3207 | YNHH-1563 | 2022;15 | 23 | 23 |
| 3208 | YNHH-1566 | 2022;15 | 27.4 | 27 |
| 3209 | YNHH-1570 | 2022;15 | 19.5 | 19.5 |
| 3210 | YNHH-1571 | 2022;15 | 18.4 | 18.3 |
| 3211 | YNHH-1572 | 2022;15 | 25.9 | 25.7 |
| 3212 | YNHH-1575 | 2022;15 | 26.9 | 26.5 |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

| A     | B             | C | D  | E  | F  |
|-------|---------------|---|-----|----|----|
| 3213  | YNHH-1576     | 23| 22.7|    |    |
| 3214  | YNHH-1577     | 18| 18.2|    |    |
| 3215  | YNHH-1578     | 18.8|18.6|    |    |
| 3216  | YNHH-1579     | 18.8|18.7|    |    |
| 3217  | YNHH-1581     | 28.7|28.4|    |    |
| 3218  | YNHH-1583     | 24.3|24   |    |    |
| 3219  | YNHH-1586     | 21.4|21.2|    |    |
| 3220  | YNHH-1592     | 19.3|19   |    |    |
| 3221  | YNHH-1594     | 27.6|27.1|    |    |
| 3222  | YNHH-1596     | 18.2|18.2|    |    |
| 3223  | YNHH-1598     | 27  |26.9|    |    |
| 3224  | YNHH-1600     | 24.4|24.2|    |    |
| 3225  | YNHH-1603     | 18.8|18.6|    |    |
| 3226  | YNHH-1604     | 28.9|28.6|    |    |
| 3227  | YNHH-1605     | 19.9|19.5|    |    |
| 3228  | YNHH-1607     | 24  |23.6|    |    |
| 3229  | YNHH-1610     | 25.5|25.3|    |    |
| 3230  | YNHH-1611     | 19  |19   |    |    |
| 3231  | YNHH-1616     | 21.7|22.3|    |    |
| 3232  | YNHH-1617     | 23  |22.8|    |    |
| 3233  | YNHH-1618     | 25  |24.8|    |    |
| 3234  | YNHH-1619     | 24.9|24.5|    |    |
| 3235  | YNHH-1620     | 28.7|27.9|    |    |
| 3236  | YNHH-1624     | 20.4|20.3|    |    |
| 3237  | YNHH-1626     | 18.2|17.7|    |    |
| 3238  | YNHH-1627     | 22.1|22   |    |    |
| 3239  | YNHH-1628     | 20.4|20.2|    |    |
| 3240  | YNHH-1629     | 21.6|21.6|    |    |
| 3241  | YNHH-1633     | 25.5|25.6|    |    |
| 3242  | YNHH-1637     | 20.6|20.7|    |    |
| 3243  | YNHH-1639     | 26  |25.7|    |    |
| 3244  | YNHH-1640     | 25.8|25.3|    |    |
| 3245  | YNHH-1644     | 27.6|27.3|    |    |
| 3246  | YNHH-1646     | 23.5|22.9|    |    |
| 3247  | YNHH-1647     | 21.3|21.1|    |    |
| 3248  | YNHH-1648     | 21.1|20.8|    |    |
| 3249  | YNHH-1649     | 20.1|19.9|    |    |
| 3250  | YNHH-1652     | 17.3|17.3|    |    |
| 3251  | YNHH-1653     | 15.9|15.6|    |    |
| 3252  | YNHH-1654     | 19.3|19   |    |    |
| 3253  | YNHH-1656     | 20.7|21   |    |    |
| 3254  | YNHH-1659     | 18.4|18.5|    |    |
| 3255  | YNHH-1660     | 25  |25   |    |    |
| 3256  | YNHH-1661     | 27.2|26.7|    |    |
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

| A           | B            | C    | D    | E    | F    |
|-------------|--------------|------|------|------|------|
| 3257 YNHH-1663 | 2022;15      | 20.2 | 20   |      |      |
| 3258 YNHH-1664 | 2022;15      | 22.9 | 22.9 |      |      |
| 3259 YNHH-1666 | 2022;15      | 25.1 | 25.4 |      |      |
| 3260 YNHH-1668 | 2022;15      | 19.9 | 19.8 |      |      |
| 3261 YNHH-1671 | 2022;15      | 18.3 | 18.1 |      |      |
| 3262 YNHH-1675 | 2022;15      | 19.8 | 19.7 |      |      |
| 3263 YNHH-1676 | 2022;15      | 21.9 | 21.6 |      |      |
| 3264 YNHH-1678 | 2022;15      | 20.3 | 20.1 |      |      |
| 3265 YNHH-1684 | 2022;15      | 20.6 | 20.5 |      |      |
| 3266 YNHH-1687 | 2022;15      | 21.6 | 21.5 |      |      |
| 3267 YNHH-1688 | 2022;15      | 21.9 | 21.7 |      |      |
| 3268 YNHH-1691 | 2022;15      | 23   | 22.7 |      |      |
| 3269 YNHH-1694 | 2022;15      | 17   | 17   |      |      |
| 3270 YNHH-1697 | 2022;15      | 20.9 | 20.6 |      |      |
| 3271 YNHH-1698 | 2022;15      | 20.5 | 20.3 |      |      |
| 3272 YNHH-1699 | 2022;15      | 22   | 21.7 |      |      |
| 3273 YNHH-1701 | 2022;15      | 19.1 | 18.8 |      |      |
| 3274 YNHH-1702 | 2022;15      | 24.9 | 24.6 |      |      |
| 3275 YNHH-1704 | 2022;15      | 23.1 | 23.3 |      |      |
| 3276 YNHH-1705 | 2022;15      | 18.8 | 18.5 |      |      |
| 3277 YNHH-1706 | 2022;15      | 26.7 | 26.4 |      |      |
| 3278 YNHH-1707 | 2022;15      | 24.9 | 24.7 |      |      |
| 3279 YNHH-1709 | 2022;15      | 25.8 | 25.6 |      |      |
| 3280 YNHH-1710 | 2022;15      | 20.5 | 20.4 |      |      |
| 3281 YNHH-1711 | 2022;15      | 23.5 | 23.4 |      |      |
| 3282 YNHH-1712 | 2022;15      | 28.6 | 28.3 |      |      |
| 3283 YNHH-1713 | 2022;15      | 20   | 19.4 |      |      |
| 3284 YNHH-1714 | 2022;15      | 18.8 | 18.7 |      |      |
| 3285 YNHH-1717 | 2022;15      | 24   | 23.7 |      |      |
| 3286 YNHH-1719 | 2022;15      | 27.6 | 27.1 |      |      |
| 3287 YNHH-1721 | 2022;15      | 23.1 | 22.6 |      |      |
| 3288 YNHH-1722 | 2022;15      | 19.7 | 19.6 |      |      |
| 3289 YNHH-1723 | 2022;15      | 21.1 | 21.3 |      |      |
| 3290 YNHH-1725 | 2022;15      | 27.9 | 27.7 |      |      |
| 3291 YNHH-1730 | 2022;15      | 21.9 | 21.4 |      |      |
| 3292 YNHH-1731 | 2022;15      | 23   | 22.9 |      |      |
| 3293 YNHH-1732 | 2022;15      | 20.8 | 20.6 |      |      |
| 3294 YNHH-1733 | 2022;15      | 20.5 | 20.1 |      |      |
| 3295 YNHH-1737 | 2022;15      | 15.7 | 15.7 |      |      |
| 3296 YNHH-1738 | 2022;15      | 28.6 | 28.4 |      |      |
| 3297 YNHH-1741 | 2022;15      | 20.3 | 20.2 |      |      |
| 3298 YNHH-1742 | 2022;15      | 18.8 | 18.8 |      |      |
| 3299 YNHH-1744 | 2022;15      | 28.2 | 27.9 |      |      |
| 3300 YNHH-0011 | 2022;15      | 20.1 | 24.2 |      |      |
|     |     | A       | B       | C | D | E | F |
|-----|-----|---------|---------|---|---|---|---|
| 3301|     | YNHH-0323 | 2022;12 | 18.2 | 22.5 |
| 3302|     | YNHH-0368 | 2022;12 | 27.4 | 30.7 |
| 3303|     | YNHH-0566 | 2022;13 | 22.3 | 26.3 |
| 3304|     | YNHH-0592 | 2022;13 | 21.9 | 25.5 |
| 3305|     | YNHH-0764 | 2022;14 | 15.7 | 20  |
| 3306|     | YNHH-0779 | 2022;14 | 27.8 | 30.9 |
| 3307|     | YNHH-0791 | 2022;14 | 21.9 | 26.8 |
| 3308|     | YNHH-0801 | 2022;14 | 20.2 | 24.4 |
| 3309|     | YNHH-0802 | 2022;14 | 26  | 29.9 |
| 3310|     | YNHH-0804 | 2022;14 | 19.4 | 23.2 |
| 3311|     | YNHH-0811 | 2022;14 | 21.5 | 25.9 |
| 3312|     | YNHH-0843 | 2022;14 | 20.3 | 24.8 |
| 3313|     | YNHH-0860 | 2022;14 | 26.1 | 29.8 |
| 3314|     | YNHH-0873 | 2022;14 | 28.1 | 31.3 |
| 3315|     | YNHH-0881 | 2022;14 | 21.7 | 25.9 |
| 3316|     | YNHH-0890 | 2022;14 | 20.3 | 23.8 |
| 3317|     | YNHH-0892 | 2022;14 | 21.2 | 25.4 |
| 3318|     | YNHH-0893 | 2022;14 | 21.7 | 25.7 |
| 3319|     | YNHH-0905 | 2022;14 | 25.5 | 29.3 |
| 3320|     | YNHH-0922 | 2022;14 | 24  | 27.6 |
| 3321|     | YNHH-0923 | 2022;14 | 22.7 | 26.6 |
| 3322|     | YNHH-0936 | 2022;14 | 23.3 | 27.5 |
| 3323|     | YNHH-0963 | 2022;14 | 20.8 | 25  |
| 3324|     | YNHH-0965 | 2022;14 | 28.9 | 32  |
| 3325|     | YNHH-0969 | 2022;14 | 20.8 | 25.2 |
| 3326|     | YNHH-0973 | 2022;14 | 21  | 25.3 |
| 3327|     | YNHH-0982 | 2022;14 | 24.8 | 28.7 |
| 3328|     | YNHH-0983 | 2022;14 | 24.7 | 28.5 |
| 3329|     | YNHH-0984 | 2022;14 | 17.2 | 21.9 |
| 3330|     | YNHH-0997 | 2022;14 | 20.1 | 24.2 |
| 3331|     | YNHH-0998 | 2022;14 | 15.4 | 20.1 |
| 3332|     | YNHH-1024 | 2022;14 | 18.5 | 23.3 |
| 3333|     | YNHH-1026 | 2022;14 | 19.3 | 24.1 |
| 3334|     | YNHH-1028 | 2022;14 | 21.4 | 25.9 |
| 3335|     | YNHH-1037 | 2022;14 | 27.4 | 30.9 |
| 3336|     | YNHH-1039 | 2022;14 | 18.6 | 23.2 |
| 3337|     | YNHH-1046 | 2022;14 | 20.9 | 25.3 |
| 3338|     | YNHH-1050 | 2022;14 | 18.8 | 23.1 |
| 3339|     | YNHH-1054 | 2022;14 | 17.1 | 21.8 |
| 3340|     | YNHH-1055 | 2022;14 | 19.3 | 24.2 |
| 3341|     | YNHH-1061 | 2022;14 | 25.2 | 29.1 |
| 3342|     | YNHH-1069 | 2022;14 | 22.7 | 26.7 |
| 3343|     | YNHH-1071 | 2022;14 | 24.8 | 28.6 |
| 3344|     | YNHH-1072 | 2022;14 | 29.1 | 31.8 |
### Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|   | A       | B          | C     | D     | E     | F  |
|---|---------|------------|-------|-------|-------|----|
| 3345| YNHH-1078 | 2022;14 | 18.7 | 22.8 |      |    |
| 3346| YNHH-1084 | 2022;14 | 19.8 | 24.2 |      |    |
| 3347| YNHH-1087 | 2022;14 | 21.4 | 25.9 |      |    |
| 3348| YNHH-1098 | 2022;14 | 19.9 | 24   |      |    |
| 3349| YNHH-1108 | 2022;14 | 18.4 | 22.2 |      |    |
| 3350| YNHH-1109 | 2022;14 | 17.9 | 22.6 |      |    |
| 3351| YNHH-1113 | 2022;14 | 26   | 29.4 |      |    |
| 3352| YNHH-1124 | 2022;14 | 24.6 | 28.2 |      |    |
| 3353| YNHH-1130 | 2022;14 | 21.9 | 25.7 |      |    |
| 3354| YNHH-1151 | 2022;14 | 22.8 | 26.2 |      |    |
| 3355| YNHH-1155 | 2022;14 | 29.1 | 32.4 |      |    |
| 3356| YNHH-1174 | 2022;15 | 17.9 | 22.8 |      |    |
| 3357| YNHH-1180 | 2022;15 | 22.8 | 26   |      |    |
| 3358| YNHH-1193 | 2022;15 | 18.8 | 22.3 |      |    |
| 3359| YNHH-1200 | 2022;15 | 17.7 | 21.1 |      |    |
| 3360| YNHH-1216 | 2022;15 | 22.6 | 26.9 |      |    |
| 3361| YNHH-1218 | 2022;15 | 21.6 | 25.7 |      |    |
| 3362| YNHH-1219 | 2022;15 | 28.7 | 32.3 |      |    |
| 3363| YNHH-1235 | 2022;15 | 17.5 | 22.2 |      |    |
| 3364| YNHH-1237 | 2022;15 | 14.5 | 19.2 |      |    |
| 3365| YNHH-1246 | 2022;15 | 16.7 | 21.1 |      |    |
| 3366| YNHH-1249 | 2022;15 | 27.3 | 31.1 |      |    |
| 3367| YNHH-1273 | 2022;15 | 20.4 | 25.2 |      |    |
| 3368| YNHH-1285 | 2022;15 | 24   | 27.9 |      |    |
| 3369| YNHH-1286 | 2022;15 | 24.7 | 28.7 |      |    |
| 3370| YNHH-1294 | 2022;15 | 21.3 | 25.8 |      |    |
| 3371| YNHH-1301 | 2022;15 | 23.6 | 28   |      |    |
| 3372| YNHH-1302 | 2022;15 | 26.2 | 29.4 |      |    |
| 3373| YNHH-1304 | 2022;15 | 18.8 | 22.5 |      |    |
| 3374| YNHH-1317 | 2022;15 | 23.5 | 26.9 |      |    |
| 3375| YNHH-1319 | 2022;15 | 19.2 | 23.1 |      |    |
| 3376| YNHH-1321 | 2022;15 | 19.3 | 23.2 |      |    |
| 3377| YNHH-1325 | 2022;15 | 22.9 | 26.7 |      |    |
| 3378| YNHH-1331 | 2022;15 | 22.4 | 26.4 |      |    |
| 3379| YNHH-1334 | 2022;15 | 26.6 | 30.3 |      |    |
| 3380| YNHH-1335 | 2022;15 | 19.5 | 23.3 |      |    |
| 3381| YNHH-1341 | 2022;15 | 19.2 | 23.9 |      |    |
| 3382| YNHH-1343 | 2022;15 | 21.76| 25.73|      |    |
| 3383| YNHH-1345 | 2022;15 | 25.1 | 29   |      |    |
| 3384| YNHH-1347 | 2022;15 | 23.82| 27.73|      |    |
| 3385| YNHH-1350 | 2022;15 | 21.6 | 25.3 |      |    |
| 3386| YNHH-1354 | 2022;15 | 20.11| 23.9 |      |    |
| 3387| YNHH-1377 | 2022;15 | 19.9 | 24.5 |      |    |
| 3388| YNHH-1378 | 2022;15 | 23.6 | 27.9 |      |    |
### Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|    |          |      |   |   |          |
|----|----------|------|---|---|----------|
| A  |          |      |   |   |          |
| 3389| YNHH-1380| 2022| 15| 23.8| 27.9|
| 3390| YNHH-1385| 2022| 15| 17.6| 22.5|
| 3391| YNHH-1389| 2022| 15| 17.5| 22.4|
| 3392| YNHH-1394| 2022| 15| 22.6| 27.1|
| 3393| YNHH-1398| 2022| 15| 17.7| 22.4|
| 3394| YNHH-1399| 2022| 15| 18.5| 22.5|
| 3395| YNHH-1401| 2022| 15| 20.4| 24.5|
| 3396| YNHH-1403| 2022| 15| 16.99| 20.61|
| 3397| YNHH-1404| 2022| 15| 24.75| 28.59|
| 3398| YNHH-1405| 2022| 15| 24.7| 28.65|
| 3399| YNHH-1406| 2022| 15| 26.88| 30.26|
| 3400| YNHH-1409| 2022| 15| 22.6| 27.1|
| 3401| YNHH-1415| 2022| 15| 18.05| 22.27|
| 3402| YNHH-1416| 2022| 15| 19.1| 21.5|
| 3403| YNHH-1418| 2022| 15| 21.26| 25.55|
| 3404| YNHH-1420| 2022| 15| 23.9| 28.1|
| 3405| YNHH-1426| 2022| 15| 17.3| 21.8|
| 3406| YNHH-1431| 2022| 15| 29.7| 32.7|
| 3407| YNHH-1433| 2022| 15| 29.98| 33.27|
| 3408| YNHH-1437| 2022| 15| 22.3| 26.4|
| 3409| YNHH-1466| 2022| 15| 27.4| 30.7|
| 3410| YNHH-1467| 2022| 15| 21.1| 25.6|
| 3411| YNHH-1469| 2022| 15| 26.9| 30.7|
| 3412| YNHH-1470| 2022| 15| 18.2| 22.5|
| 3413| YNHH-1489| 2022| 15| 28.3| 31.9|
| 3414| YNHH-1492| 2022| 15| 16.6| 21|
| 3415| YNHH-1503| 2022| 15| 21.6| 25.4|
| 3416| YNHH-1505| 2022| 15| 29.4| 32|
| 3417| YNHH-1506| 2022| 15| 23| 27.3|
| 3418| YNHH-1515| 2022| 15| 20| 24.6|
| 3419| YNHH-1540| 2022| 15| 17.1| 21.2|
| 3420| YNHH-1542| 2022| 15| 25.9| 29.5|
| 3421| YNHH-1543| 2022| 15| 22.1| 26.5|
| 3422| YNHH-1544| 2022| 15| 21.6| 25.6|
| 3423| YNHH-1546| 2022| 15| 22.4| 26.4|
| 3424| YNHH-1555| 2022| 15| 19.5| 24|
| 3425| YNHH-1568| 2022| 15| 28.8| 32.2|
| 3426| YNHH-1569| 2022| 15| 19.7| 24|
| 3427| YNHH-1573| 2022| 15| 19| 23|
| 3428| YNHH-1588| 2022| 15| 21.6| 26|
| 3429| YNHH-1591| 2022| 15| 20| 24.1|
| 3430| YNHH-1599| 2022| 15| 24.5| 28.4|
| 3431| YNHH-1608| 2022| 15| 24.7| 27.7|
| 3432| YNHH-1613| 2022| 15| 25.4| 29|
Supplemental Table 1. Ct values and available SARS-CoV-2 lineage assignments for all samples

|    | A       | B       | C   | D   | E   | F   |
|----|---------|---------|-----|-----|-----|-----|
| 3433| YNHH-1615 | 2022;15 | 22.3 | 25.8 |
| 3434| YNHH-1621 | 2022;15 | 19.3 | 23.4 |
| 3435| YNHH-1622 | 2022;15 | 18.1 | 21.9 |
| 3436| YNHH-1623 | 2022;15 | 19.6 | 23.8 |
| 3437| YNHH-1636 | 2022;15 | 23.3 | 27.3 |
| 3438| YNHH-1638 | 2022;15 | 20.3 | 24.2 |
| 3439| YNHH-1650 | 2022;15 | 18.4 | 22.5 |
| 3440| YNHH-1651 | 2022;15 | 26.1 | 30.1 |
| 3441| YNHH-1655 | 2022;15 | 20.9 | 25.1 |
| 3442| YNHH-1657 | 2022;15 | 18.6 | 22.8 |
| 3443| YNHH-1670 | 2022;15 | 25   | 28.7 |
| 3444| YNHH-1673 | 2022;15 | 30   | 33.1 |
| 3445| YNHH-1674 | 2022;15 | 28.7 | 31.9 |
| 3446| YNHH-1679 | 2022;15 | 17.1 | 21.1 |
| 3447| YNHH-1680 | 2022;15 | 25.1 | 28.3 |
| 3448| YNHH-1682 | 2022;15 | 22.5 | 26.5 |
| 3449| YNHH-1689 | 2022;15 | 19.7 | 24   |
| 3450| YNHH-1692 | 2022;15 | 26.5 | 30.2 |
| 3451| YNHH-1693 | 2022;15 | 20.7 | 25.1 |
| 3452| YNHH-1695 | 2022;15 | 24.8 | 28.4 |
| 3453| YNHH-1696 | 2022;15 | 20   | 23.9 |
| 3454| YNHH-1700 | 2022;15 | 23.1 | 27.2 |
| 3455| YNHH-1708 | 2022;15 | 20.5 | 24.6 |
| 3456| YNHH-1715 | 2022;15 | 20.1 | 24.4 |
| 3457| YNHH-1718 | 2022;15 | 23.2 | 26.8 |
| 3458| YNHH-1728 | 2022;15 | 21.2 | 25.6 |
| 3459| YNHH-1729 | 2022;15 | 22.6 | 26.9 |
| 3460| YNHH-1734 | 2022;15 | 26   | 29.8 |
| 3461| YNHH-1735 | 2022;15 | 20.9 | 24.5 |
| 3462| YNHH-1736 | 2022;15 | 24.8 | 27.8 |
| 3463| YNHH-1740 | 2022;15 | 19.8 | 22.9 |