

Real-Time Genomic Surveillance for SARS-CoV-2 Variants of Concern, Uruguay

Appendix 1

Supplementary Methods

Residual deidentified RNA samples from severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)-positive patients were remitted to the Institut Pasteur Montevideo, which is an approved center providing diagnostic testing for coronavirus disease (COVID-19) validated by the Ministry of Health of Uruguay. All samples were deidentified before receipt by the study investigators.

Drop Out PCR for SARS-CoV-2 Variants of Concern

We designed primers and drop out probes to target the deletion sites in both spike (S) and open reading frame 1ab (ORF1ab) viral genes for this assay. We used the nucleotide sequence from a Wuhan SARS-CoV-2 strain (GenBank acc. NC_045512) to devise primers and probes targeting ORF1ab deletion $\Delta 3675-3677$, which causes a spike gene target failure (Appendix 1 Table 5). We used the OligoAnalyzer Tool (Integrated DNA Technologies, <https://www.idtdna.com>; 1) to assess oligonucleotide complementarity and melting temperature. We used primers and probes from C.B.F. Vogels et al. (2) that target S deletion in amino acid 69 histidine and 70 valine positions ($\Delta 69-70$ HV) (Appendix 1 Table 5). B.1.1.7 has both the $\Delta 69-70$ HV and $\Delta 3675-3677$ deletions, but P.1 and B.1.351 have only the $\Delta 3675-3677$ deletion in ORF1ab. Hence, we expected no amplification with both probes with B.1.1.7 lineage viruses, only amplification of the S gene with P.1 and B.1.351 lineages and amplification of both genomic regions with other lineages. We used BLAST (NCBI, <https://blast.ncbi.nlm.nih.gov>) to analyze the primer and probe sets to rule out similarities with sequences other than SARS-CoV-2. We used the standard hydrolysis probe system from TaqMan technology as the basis of the detection strategy. We labeled the S gene-specific probes with HEX fluorophore (Integrated DNA Technologies) and custom labeled the Orf1a probe with CY5 fluorophore (Integrated DNA

Technologies). Primers and probes were purified by high-pressure liquid chromatography. We prepared the reaction mix by using 5 μ L of RNA samples, 5 μ L of 4 \times TaqMan Fast Virus 1-Step Master Mix (Thermo Fisher Scientific, <https://www.thermofisher.com>), with 0.3 μ mol of each S primer, 0.1 μ mol of S probe, 0.3 μ mol of each Orf1a primer, 0.1 μ mol of Orf1a probe, and molecular biology grade water to a final volume of 20 μ L. We performed thermal cycling on a QuantStudio 7 Pro real-time PCR system (Applied Biosystems, <https://www.thermofisher.com>) with the following cycle parameters: 50°C for 5 min for reverse transcription, inactivation of reverse transcription at 95°C for 20 s, and then 40 cycles at 95°C for 15 s and 60°C for 30 s.

Genome Sequencing

We prepared sequencing libraries according to the Eco PCR tiling of COVID-19 virus protocol (Oxford Nanopore Technologies), according to the method described by J. Quick (3; J.R. Tyson et al., unpub. data, <https://doi.org/10.1101/2020.09.04.283077>) with some modifications. For RNA samples previously screened by a PCR assay, we used SuperScript II Reverse Transcriptase Kit (Thermo Fisher Scientific Inc.) or the LunaScript RT SuperMix Kit (New England Biolabs, <https://www.neb.com>) to perform reverse transcription. We included a negative control at this point and carried it throughout the protocol. We used ARTIC V3 primers (Integrated DNA Technologies) for SARS-CoV-2 genome amplification and the Q5 High-Fidelity DNA Polymerase (New England Biolabs) in 2 multiplex PCR reactions. At this point we added a positive control from a previously sequenced sample and carried it throughout the protocol. We used the NEBNext Ultra II End repair/dA-tailing Module (New England Biolabs) to pool and dilute both reactions for the end prep reaction. We used Blunt/TA Ligase Master Mix (New England Biolabs) to ligate unique barcodes by using the Native Barcoding Expansion Kit 96 (Oxford Nanopore Technologies) to the end prepped samples. We pooled barcoded samples, which we cleaned up by using 0.4 \times volume of AMPure XP beads (Beckman Coulter, <https://www.beckmancoulter.com>) and quantified results by using the Qubit HS dsDNA kit (Thermo Fisher Scientific Inc.). We ligated sequencing adapters from Adapter Mix II Expansion Kit (Oxford Nanopore Technologies) by using the NEBNext Quick Ligation Module (New England Biolabs) and washed with Short Fragment Buffer (Oxford Nanopore Technologies). We eluted the final library on Elution Buffer (Oxford Nanopore Technologies) and quantified using the Qubit HS dsDNA kit. Approximately 50 fmol was loaded into a FLO-MIN106D R9.4.1 flow

cell (Oxford Nanopore Technologies) and sequenced on the GridION sequencing platform (Oxford Nanopore Technologies) until we achieved a minimum sequencing depth of 500×.

We performed basecalling and demultiplexing by using Guppy version 4.3.2 (Oxford Nanopore Technologies) in the high accuracy mode and both front and rear barcodes and the `require_both_barcodes` option were used for demultiplexed. We generated consensus genomes and used the `poreCov` pipeline (4; C. Brandt et al., unpub. data, <https://doi.org/10.1101/2021.05.07.443089>) implemented in Nextflow (5), which includes the ARTIC Network workflow (6), PANGOLIN (7) for lineage assignment, nextclade (<https://github.com/nextstrain/nextclade>) for clade assignment, Kraken2 and Krona (8,9) for contamination detection and visualization, minimap2 (10) for read mapping, medaka (<https://nanoporetech.github.io/medaka>) for consensus generation, and we used singularity as container engine (11). We did not include amplicons that were not sequenced or with a depth <20× in the consensus sequences; these positions are represented by stretches of N (uncalled bases). We kept complete sequences with ≤15% Ns for further analysis. We uploaded all genomes obtained in this study to the EpiCoV database in the GISAID initiative under the accession numbers EPI_ISL_1992241, EPI_ISL_1992100, EPI_ISL_1991974, and EPI_ISL_20317–62 (Appendix 1 Table 1).

Phylogenetic and Phylogeographic Analysis

We manually curated 59 P.1 genome sequences from Uruguay in specific genome positions of interest, namely P.1 synapomorphies, and analyzed these in the context of additional P.1 sequences from South America downloaded from EpiCoV database (<https://www.epicov.org>) in the GISAID initiative (12; Appendix 2, <https://wwwnc.cdc.gov/EID/article/27/11/21-1198-App2.pdf>). We downloaded 905 high quality, complete sequences from EpiCoV that included full collection date information for samples collected before March 31, 2021. We performed alignment by using MAFFT version 7.471 (13). After careful alignment inspection, we excluded several sequences that were missing the characteristic insertions/deletions of P.1, including 11288–11296 deletion and 28269–28273 insertion. The remaining 691 sequences were from Brazil (n = 590), Chile (n = 72), Colombia (n = 4), French Guiana (n = 15), Peru (n = 2), and Suriname (n = 8) (Appendix 1 Table 2).

We conducted maximum-likelihood phylogenetic analysis of P.1 samples by using IQ-TREE version 1.6.12 (<http://www.iqtree.org>) under the GTR+F+R3 nucleotide substitution model selected by the built-in ModelFinder option (14). We assessed branch support by the approximate likelihood-ratio test according to Shimodaira-Hasegawa-like procedure with 1,000 replicates. We used GISAID sequence EPI_ISL_833137 collected on December 4, 2020 as the tree root and visualized the tree by using iTOL (15). We then performed maximum-likelihood phylogeographic analysis to infer the geographic source of P.1 samples in Uruguay and time-scaled Bayesian analysis to estimate the time of the most recent common ancestors (T_{MRCA}) of the P.1 clades in Uruguay. We used TreeTime (16) to time-scaled the previously generated maximum-likelihood phylogenetic tree applying a fixed clock rate of 8×10^{-4} substitutions/site/year, based on previous estimates (17,18), a skyline coalescent model with 8 grid points and keeping polytomies. The time-scaled tree was then used for the ancestral character state reconstruction of epidemic locations with PastML (19), by using the marginal posterior probabilities approximation method with an F81-like model. We constructed time-scaled Bayesian phylogenetic tree by using the Bayesian Markov chain Monte Carlo approach implemented in BEAST version 1.10 (20) with BEAGLE library version 3 (<http://beagle-lib.googlecode.com>) to improve computational time. We conducted Bayesian analysis by using the nonparametric Bayesian skyline model as the coalescent tree prior (21), the GTR+I+G model of nucleotide substitution and a strict molecular clock model with a uniform prior on substitution rate of $8-10 \times 10^{-4}$ substitutions/site/year. We ran 2 Markov chains for 50 million generations and then combined the 2 to ensure stationarity and good mixing. To assess convergence (effective sample size >200) in parameter estimates by using TRACER version 1.7 (22). We summarized the maximum clade credibility tree by using TreeAnnotator version 1.10 (23) and the tree was visualized with FigTree version 1.4.4 (<http://tree.bio.ed.ac.uk/software/figtree>).

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Appendix 1 Table 1. Information on 251 SARS-CoV-2–positive nasopharyngeal swab samples analyzed by PCR from departments, Uruguay*

| Sample identification | Cycle threshold | Department | Date collected | Variants by PCR |
|-----------------------|-----------------|----------------|----------------|--------------------|
| CUY1–000001 | 20.1 | Treinta y Tres | 2021 Mar 4 | No VOC |
| CUY1–000002 | 23.8 | Treinta y Tres | 2021 Mar 4 | No VOC |
| CUY1–000004 | 28.7 | Artigas | 2021 Mar 4 | No VOC |
| CUY1–000006 | 18.0 | Artigas | 2021 Mar 4 | No VOC |
| CUY1–000007 | 21.5 | San José | 2021 Mar 4 | No VOC |
| CUY1–000008 | 22.7 | San José | 2021 Mar 4 | No VOC |
| CUY1–000011 | 22.8 | Artigas | 2021 Mar 4 | P.1/B.1.351 |
| CUY1–000012 | 23.0 | Artigas | 2021 Mar 4 | No VOC |
| CUY1–000015 | 23.5 | Artigas | 2021 Mar 4 | No VOC |
| CUY1–000017 | 29.7 | Montevideo | 2021 Mar 4 | No VOC |
| CUY1–000020 | 34.7 | Montevideo | 2021 Mar 4 | P.1/B.1.351 |
| CUY1–000021 | 22.9 | Colonia | 2021 Mar 4 | No VOC |
| CUY1–000022 | 19.6 | Maldonado | 2021 Mar 4 | No VOC |
| CUY1–000023 | 18.3 | Maldonado | 2021 Mar 4 | No VOC |
| CUY1–000024 | 26.9 | Montevideo | 2021 Mar 4 | No VOC |
| CUY1–000025 | 15.4 | Montevideo | 2021 Mar 5 | P.1/B.1.351 |
| CUY1–000028 | 31.5 | Salto | 2021 Mar 5 | No VOC |
| CUY1–000029 | 18.7 | Salto | 2021 Mar 5 | No VOC |
| CUY1–000030 | 28.7 | Colonia | 2021 Mar 5 | NC |
| CUY1–000031 | 21.3 | Artigas | 2021 Mar 5 | P.1/B.1.351 |
| CUY1–000032 | 22.9 | San José | 2021 Mar 5 | No VOC |
| CUY1–000034 | 29.5 | Canelones | 2021 Mar 5 | No VOC |
| CUY1–000035 | 27.9 | Canelones | 2021 Mar 5 | No VOC |
| CUY1–000036 | 29.1 | Salto | 2021 Mar 5 | No VOC |
| CUY1–000037 | 29.9 | Flores | 2021 Mar 5 | No VOC |
| CUY1–000038 | 25.4 | Salto | 2021 Mar 5 | No VOC |
| CUY1–000039 | 24.4 | Flores | 2021 Mar 5 | No VOC |
| CUY1–000040 | 27.9 | Tacuarembó | 2021 Mar 4 | No VOC |
| CUY1–000041 | 30.1 | Flores | 2021 Mar 5 | No VOC |
| CUY1–000042 | 19.0 | Canelones | 2021 Mar 5 | No VOC |
| CUY1–000043 | 29.6 | Canelones | 2021 Mar 5 | No VOC |
| CUY1–000045 | 20.8 | ND | 2021 Mar 5 | P.1/B.1.351 |
| CUY1–000046 | 25.9 | Canelones | 2021 Mar 5 | P.1/B.1.351 |
| CUY1–000047 | 25.5 | Canelones | 2021 Mar 5 | P.1/B.1.351 |
| CUY1–000048 | 22.4 | Salto | 2021 Mar 5 | No VOC |
| CUY1–000049 | 20.2 | San José | 2021 Mar 5 | P.1/B.1.351 |
| CUY1–000050 | 22.7 | San José | 2021 Mar 5 | P.1/B.1.351 |
| CUY1–000051 | 24.9 | Salto | 2021 Mar 5 | No VOC |
| CUY1–000052 | 25.2 | Salto | 2021 Mar 5 | No VOC |
| CUY1–000053 | 33.0 | Tacuarembó | 2021 Mar 5 | No VOC |
| CUY1–000054 | 27.5 | Salto | 2021 Mar 5 | No VOC |
| CUY1–000055 | 20.9 | Salto | 2021 Mar 5 | No VOC |
| CUY1–000056 | 18.7 | Canelones | 2021 Mar 5 | No VOC |
| CUY1–000057 | 21.8 | Tacuarembó | 2021 Mar 5 | No VOC |
| CUY1–000060 | 22.8 | Florida | 2021 Mar 11 | No VOC |
| CUY1–000061 | 16.4 | Rocha | 2021 Mar 11 | No VOC |
| CUY1–000062 | 18.2 | Rocha | 2021 Mar 12 | P.1/B.1.351 |
| CUY1–000063 | 20.0 | Florida | 2021 Mar 12 | No VOC |
| CUY1–000064 | 21.9 | Río Negro | 2021 Mar 12 | No VOC |
| CUY1–000065 | 20.2 | Rocha | 2021 Mar 12 | No VOC |
| CUY1–000066 | 22.4 | Rocha | 2021 Mar 12 | No VOC |
| CUY1–000067 | 22.1 | Rocha | 2021 Mar 12 | No VOC |
| CUY1–000068 | 31.8 | Flores | 2021 Mar 12 | No VOC |
| CUY1–000069 | 25.5 | Flores | 2021 Mar 12 | No VOC |
| CUY1–000070 | 30.5 | Flores | 2021 Mar 12 | P.1/B.1.351 |
| CUY1–000071 | 34.1 | Río Negro | 2021 Mar 12 | P.1/B.1.351 |
| CUY1–000072 | 25.9 | Río Negro | 2021 Mar 12 | P.1/B.1.351 |
| CUY1–000073 | 22.2 | Flores | 2021 Mar 12 | No VOC |
| CUY1–000074 | ND | ND | 2021 Mar 12 | No VOC |
| CUY1–000075 | 16.4 | San José | 2021 Mar 12 | P.1/B.1.351 |
| CUY1–000076 | 19.2 | Canelones | 2021 Mar 12 | No VOC |
| CUY1–000077 | 20.9 | San José | 2021 Mar 12 | No VOC |
| CUY1–000078 | 26.8 | Salto | 2021 Mar 12 | No VOC |
| CUY1–000079 | 26.3 | Salto | 2021 Mar 12 | No VOC |
| CUY1–000080 | 19.9 | Río Negro | 2021 Mar 12 | P.1/B.1.351 |
| CUY1–000081 | 29.5 | Artigas | 2021 Mar 12 | P.1/B.1.351 |
| CUY1–000082 | 19.2 | Artigas | 2021 Mar 12 | No VOC |

| Sample identification | Cycle threshold | Department | Date collected | Variants by PCR |
|-----------------------|-----------------|------------|----------------|--------------------|
| CUY1-000083 | 17.2 | Artigas | 2021 Mar 12 | No VOC |
| CUY1-000084 | 25.5 | ND | 2021 Mar 12 | P.1/B.1.351 |
| CUY1-000085 | 18.1 | Salto | 2021 Mar 12 | No VOC |
| CUY1-000086 | 19.4 | Colonia | 2021 Mar 13 | No VOC |
| CUY1-000087 | 26.6 | Florida | 2021 Mar 13 | No VOC |
| CUY1-000088 | 23.9 | Flores | 2021 Mar 13 | No VOC |
| CUY1-000089 | 18.6 | San José | 2021 Mar 13 | No VOC |
| CUY1-000090 | 21.4 | San José | 2021 Mar 13 | P.1/B.1.351 |
| CUY1-000091 | 22.2 | Montevideo | 2021 Mar 13 | No VOC |
| CUY1-000092 | 20.1 | Canelones | 2021 Mar 13 | No VOC |
| CUY1-000093 | 19.0 | Canelones | 2021 Mar 13 | P.1/B.1.351 |
| CUY1-000094 | 17.6 | Canelones | 2021 Mar 13 | P.1/B.1.351 |
| CUY1-000095 | 23.0 | San José | 2021 Mar 13 | P.1/B.1.351 |
| CUY1-000096 | 19.9 | Montevideo | 2021 Mar 14 | No VOC |
| CUY1-000097 | 29.2 | Montevideo | 2021 Mar 14 | P.1/B.1.351 |
| CUY1-000098 | 24.5 | ND | ND | No VOC |
| CUY1-000099 | 29.7 | Canelones | 2021 Mar 12 | No VOC |
| CUY1-000100 | 15.0 | Salto | 2021 Feb 24 | No VOC |
| CUY1-000101 | 11.0 | Salto | 2021 Feb 25 | No VOC |
| CUY1-000102 | 9.0 | Salto | 2021 Feb 26 | No VOC |
| CUY1-000103 | 13.0 | Salto | 2021 Mar 1 | No VOC |
| CUY1-000104 | 15.0 | Salto | 2021 Mar 1 | No VOC |
| CUY1-000105 | 11.0 | Salto | 2021 Mar 1 | No VOC |
| CUY1-000106 | 12.0 | Salto | 2021 Mar 1 | No VOC |
| CUY1-000107 | 15.0 | Río Negro | 2021 Mar 2 | No VOC |
| CUY1-000108 | 12.0 | Salto | 2021 Mar 2 | No VOC |
| CUY1-000109 | 12.0 | Salto | 2021 Mar 2 | No VOC |
| CUY1-000110 | 13.0 | Río Negro | 2021 Mar 3 | P.1/B.1.351 |
| CUY1-000111 | 13.0 | Salto | 2021 Mar 4 | No VOC |
| CUY1-000112 | 14.0 | Salto | 2021 Mar 4 | No VOC |
| CUY1-000113 | 12.0 | Salto | 2021 Mar 8 | No VOC |
| CUY1-000114 | 10.0 | Río Negro | 2021 Mar 8 | P.1/B.1.351 |
| CUY1-000115 | 17.0 | Río Negro | 2021 Mar 8 | P.1/B.1.351 |
| CUY1-000116 | 14.0 | Salto | 2021 Mar 9 | No VOC |
| CUY1-000117 | 14.0 | Salto | 2021 Mar 9 | No VOC |
| CUY1-000118 | 17.0 | Salto | 2021 Mar 9 | No VOC |
| CUY1-000119 | 10.0 | Salto | 2021 Mar 9 | No VOC |
| CUY1-000120 | 18.0 | Salto | 2021 Mar 10 | No VOC |
| CUY1-000121 | 12.0 | Salto | 2021 Mar 10 | No VOC |
| CUY1-000122 | 13.0 | Salto | 2021 Mar 10 | No VOC |
| CUY1-000123 | 12.0 | Salto | 2021 Mar 10 | No VOC |
| CUY1-000124 | 17.0 | Salto | 2021 Mar 10 | No VOC |
| CUY1-000125 | 13.0 | Salto | 2021 Mar 11 | P.1/B.1.351 |
| CUY1-000126 | 16.0 | Salto | 2021 Mar 11 | No VOC |
| CUY1-000127 | 18.0 | Salto | 2021 Mar 11 | No VOC |
| CUY1-000128 | 16.0 | Salto | 2021 Mar 11 | No VOC |
| CUY1-000129 | 11.0 | Salto | 2021 Mar 11 | P.1/B.1.351 |
| CUY1-000130 | 18.0 | Tacuarembó | 2020 Nov 13 | No VOC |
| CUY1-000131 | 15.0 | Tacuarembó | 2020 Nov 13 | No VOC |
| CUY1-000132 | 17.0 | Tacuarembó | 2020 Nov 13 | No VOC |
| CUY1-000133 | 19.0 | Tacuarembó | 2020 Nov 16 | No VOC |
| CUY1-000134 | 17.0 | Tacuarembó | 2020 Nov 16 | No VOC |
| CUY1-000135 | 16.0 | Tacuarembó | 2020 Nov 16 | No VOC |
| CUY1-000136 | 19.0 | Tacuarembó | 2020 Nov 16 | No VOC |
| CUY1-000137 | 15.0 | Tacuarembó | 2020 Nov 16 | No VOC |
| CUY1-000138 | 18.0 | Tacuarembó | 2020 Nov 23 | No VOC |
| CUY1-000139 | 14.0 | Tacuarembó | 2020 Dec 1 | No VOC |
| CUY1-000140 | 19.0 | Tacuarembó | 2020 Dec 1 | No VOC |
| CUY1-000141 | 13.0 | Tacuarembó | 2020 Dec 1 | No VOC |
| CUY1-000142 | 19.0 | Tacuarembó | 2020 Dec 4 | No VOC |
| CUY1-000143 | 18.6 | Tacuarembó | 2020 Dec 8 | No VOC |
| CUY1-000144 | 18.0 | Tacuarembó | 2020 Dec 15 | No VOC |
| CUY1-000145 | 18.2 | Tacuarembó | 2020 Dec 18 | No VOC |
| CUY1-000146 | 14.2 | Tacuarembó | 2020 Dec 21 | No VOC |
| CUY1-000147 | 15.7 | Tacuarembó | 2020 Dec 21 | No VOC |
| CUY1-000148 | 18.0 | Tacuarembó | 2020 Dec 22 | No VOC |
| CUY1-000149 | 18.5 | Tacuarembó | 2020 Dec 22 | No VOC |
| CUY1-000150 | 15.2 | Tacuarembó | 2020 Dec 23 | No VOC |
| CUY1-000151 | 18.0 | Tacuarembó | 2020 Dec 23 | No VOC |

| Sample identification | Cycle threshold | Department | Date collected | Variants by PCR |
|-----------------------|-----------------|------------|----------------|--------------------|
| CUY1-000152 | 16.3 | Tacuarembó | 2020 Dec 24 | No VOC |
| CUY1-000153 | 18.5 | Tacuarembó | 2020 Dec 24 | No VOC |
| CUY1-000154 | 18.5 | Tacuarembó | 2020 Dec 24 | No VOC |
| CUY1-000155 | 19.2 | Tacuarembó | 2020 Dec 24 | No VOC |
| CUY1-000156 | 18.1 | Tacuarembó | 2020 Dec 24 | No VOC |
| CUY1-000157 | 19.5 | Tacuarembó | 2020 Dec 24 | No VOC |
| CUY1-000158 | 19.8 | Tacuarembó | 2021 Jan 3 | No VOC |
| CUY1-000159 | 18.7 | Tacuarembó | 2021 Jan 3 | No VOC |
| CUY1-000160 | 19.4 | Tacuarembó | 2021 Jan 5 | No VOC |
| CUY1-000161 | 15.2 | Tacuarembó | 2021 Jan 6 | No VOC |
| CUY1-000162 | 11.8 | Tacuarembó | 2021 Jan 6 | No VOC |
| CUY1-000163 | 17.5 | Tacuarembó | 2021 Jan 6 | No VOC |
| CUY1-000164 | 17.3 | Tacuarembó | 2021 Jan 7 | No VOC |
| CUY1-000165 | 14.1 | Tacuarembó | 2021 Jan 7 | No VOC |
| CUY1-000166 | 17.3 | Tacuarembó | 2020 Nov 1 | No VOC |
| CUY1-000167 | 15.3 | Tacuarembó | 2021 Jan 18 | No VOC |
| CUY1-000168 | 15.3 | Tacuarembó | 2021 Jan 20 | No VOC |
| CUY1-000169 | 14.5 | Tacuarembó | 2021 Jan 20 | No VOC |
| CUY1-000170 | 15.5 | Tacuarembó | 2021 Jan 20 | No VOC |
| CUY1-000171 | 13.2 | Tacuarembó | 2021 Jan 21 | No VOC |
| CUY1-000172 | 13.4 | Tacuarembó | 2021 Jan 21 | No VOC |
| CUY1-000173 | 17.9 | Tacuarembó | 2021 Jan 21 | No VOC |
| CUY1-000174 | 16.5 | Tacuarembó | 2021 Jan 28 | No VOC |
| CUY1-000175 | 17.3 | Tacuarembó | 2021 Jan 29 | No VOC |
| CUY2-000176 | 14.0 | Paysandú | 2021 Jan 11 | No VOC |
| CUY2-000177 | 13.0 | Paysandú | 2021 Jan 11 | No VOC |
| CUY2-000178 | 12.0 | Salto | 2021 Jan 12 | No VOC |
| CUY2-000179 | 14.0 | Salto | 2021 Jan 14 | No VOC |
| CUY2-000180 | 17.0 | Paysandú | 2021 Jan 13 | No VOC |
| CUY2-000181 | 16.0 | Paysandú | 2021 Jan 14 | No VOC |
| CUY2-000182 | 14.0 | Salto | 2021 Jan 19 | No VOC |
| CUY2-000183 | 12.0 | Montevideo | 2021 Jan 19 | No VOC |
| CUY2-000184 | 16.0 | Salto | 2021 Jan 19 | No VOC |
| CUY2-000185 | 17.0 | Salto | 2021 Jan 20 | No VOC |
| CUY2-000186 | 9.0 | Salto | 2021 Jan 20 | No VOC |
| CUY2-000187 | 9.0 | Salto | 2021 Jan 21 | No VOC |
| CUY2-000188 | 12.0 | Salto | 2021 Jan 21 | No VOC |
| CUY2-000189 | 14.0 | Salto | 2021 Jan 22 | No VOC |
| CUY2-000190 | 13.0 | Salto | 2021 Jan 22 | No VOC |
| CUY2-000191 | 16.0 | Paysandú | 2021 Feb 5 | No VOC |
| CUY2-000192 | 16.0 | Paysandú | 2021 Feb 8 | No VOC |
| CUY2-000193 | 14.0 | Paysandú | 2021 Feb 9 | No VOC |
| CUY2-000194 | 16.0 | Paysandú | 2021 Feb 8 | No VOC |
| CUY2-000195 | 11.0 | Salto | 2021 Mar 15 | No VOC |
| CUY2-000196 | 12.0 | Salto | 2021 Mar 15 | No VOC |
| CUY2-000197 | 11.0 | Salto | 2021 Mar 15 | No VOC |
| CUY2-000198 | 13.0 | Salto | 2021 Mar 18 | P.1/B.1.351 |
| CUY2-000199 | 14.0 | Río Negro | 2021 Mar 18 | P.1/B.1.351 |
| CUY2-000200 | 12.0 | Río Negro | 2021 Mar 18 | P.1/B.1.351 |
| CUY2-000201 | 22.9 | Montevideo | 2021 Mar 12 | No VOC |
| CUY2-000202 | 20.0 | Montevideo | 2021 Mar 23 | No VOC |
| CUY2-000203 | 16.8 | Montevideo | 2021 Mar 23 | P.1/B.1.351 |
| CUY2-000204 | 13.6 | Montevideo | 2021 Mar 22 | P.1/B.1.351 |
| CUY2-000205 | 24.5 | Montevideo | 2021 Mar 19 | No VOC |
| CUY2-000206 | 13.5 | Montevideo | 2021 Mar 22 | No VOC |
| CUY2-000207 | 28.2 | Montevideo | 2021 Mar 22 | No VOC |
| CUY2-000208 | 22.7 | Tacuarembó | ND | No VOC |
| CUY2-000209 | 21.8 | Tacuarembó | 2021 Mar 18 | No VOC |
| CUY2-000210 | 31.5 | Artigas | 2021 Mar 18 | No VOC |
| CUY2-000211 | 22.3 | Río Negro | 2021 Mar 18 | P.1/B.1.351 |
| CUY2-000212 | 21.9 | Río Negro | 2021 Mar 18 | P.1/B.1.351 |
| CUY2-000213 | 20.3 | Río Negro | 2021 Mar 19 | P.1/B.1.351 |
| CUY2-000214 | 21.9 | Río Negro | 2021 Mar 18 | P.1/B.1.351 |
| CUY2-000215 | 23.6 | Artigas | 2021 Mar 19 | P.1/B.1.351 |
| CUY2-000216 | 28.8 | Soriano | 2021 Mar 19 | P.1/B.1.351 |
| CUY2-000217 | 21.0 | San José | 2021 Mar 19 | No VOC |
| CUY2-000218 | 24.2 | Soriano | 2021 Mar 19 | No VOC |
| CUY2-000219 | 22.7 | Soriano | 2021 Mar 19 | No VOC |
| CUY2-000220 | ND | ND | 2021 Mar 19 | No VOC |

| Sample identification | Cycle threshold | Department | Date collected | Variants by PCR |
|-----------------------|-----------------|------------|----------------|--------------------|
| CUY2-000221 | 24.4 | Rocha | 2021 Mar 19 | No VOC |
| CUY2-000222 | 22.8 | San José | 2021 Mar 19 | P.1/B.1.351 |
| CUY2-000223 | 25.9 | San José | 2021 Mar 19 | No VOC |
| CUY2-000224 | 23.2 | Maldonado | 2021 Mar 19 | No VOC |
| CUY2-000225 | 23.4 | Canelones | 2021 Mar 19 | P.1/B.1.351 |
| CUY2-000226 | 22.0 | Canelones | 2021 Mar 19 | No VOC |
| CUY2-000227 | 23.0 | Rocha | 2021 Mar 19 | No VOC |
| CUY2-000228 | 19.7 | Rocha | 2021 Mar 19 | P.1/B.1.351 |
| CUY2-000229 | 20.0 | Rocha | 2021 Mar 19 | No VOC |
| CUY2-000231 | 18.1 | Canelones | 2021 Mar 19 | P.1/B.1.351 |
| CUY2-000232 | 24.4 | Soriano | 2021 Mar 19 | No VOC |
| CUY2-000233 | 21.3 | Rocha | 2021 Mar 19 | P.1/B.1.351 |
| CUY2-000234 | 20.5 | Canelones | 2021 Mar 19 | No VOC |
| CUY2-000235 | 19.9 | Río Negro | 2021 Mar 19 | P.1/B.1.351 |
| CUY2-000236 | 19.2 | Río Negro | 2021 Mar 19 | P.1/B.1.351 |
| CUY2-000237 | 19.6 | Río Negro | 2021 Mar 19 | P.1/B.1.351 |
| CUY2-000238 | 23.6 | Río Negro | 2021 Mar 19 | P.1/B.1.351 |
| CUY2-000239 | 26.2 | Río Negro | 2021 Mar 19 | P.1/B.1.351 |
| CUY2-000240 | 12.3 | Río Negro | 2021 Mar 19 | P.1/B.1.351 |
| CUY2-000241 | 22.8 | Canelones | 2021 Mar 20 | No VOC |
| CUY2-000242 | 19.5 | Canelones | 2021 Mar 20 | No VOC |
| CUY2-000243 | 24.7 | Canelones | 2021 Mar 20 | No VOC |
| CUY2-000244 | 25.9 | Canelones | 2021 Mar 20 | P.1/B.1.351 |
| CUY2-000245 | 18.0 | Canelones | 2021 Mar 20 | P.1/B.1.351 |
| CUY2-000246 | 30.3 | Canelones | 2021 Mar 20 | P.1/B.1.351 |
| CUY2-000247 | 21.5 | San José | 2021 Mar 20 | No VOC |
| CUY2-000249 | 23.5 | Canelones | 2021 Mar 20 | No VOC |
| CUY2-000250 | 21.6 | Artigas | 2021 Mar 20 | P.1/B.1.351 |
| CUY2-000251 | 31.2 | Montevideo | 2021 Mar 20 | No VOC |
| CUY2-000252 | 17.2 | Montevideo | 2021 Mar 20 | P.1/B.1.351 |
| CUY2-000253 | 23.3 | Montevideo | 2021 Mar 20 | No VOC |
| CUY2-000254 | 20.6 | Montevideo | 2021 Mar 20 | P.1/B.1.351 |
| CUY2-000255 | 24.6 | Montevideo | 2021 Mar 20 | No VOC |
| CUY2-000256 | 19.5 | Montevideo | 2021 Mar 20 | P.1/B.1.351 |
| CUY2-000257 | 23.2 | Canelones | 2021 Mar 20 | P.1/B.1.351 |
| CUY2-000258 | 17.7 | Montevideo | 2021 Mar 21 | P.1/B.1.351 |
| CUY2-000259 | 26.8 | Soriano | 2021 Mar 21 | P.1/B.1.351 |
| CUY2-000260 | 25.3 | Soriano | 2021 Mar 21 | P.1/B.1.351 |
| CUY2-000261 | 26.7 | Colonia | 2021 Mar 22 | P.1/B.1.351 |
| CUY2-000262 | 22.7 | Montevideo | 2021 Mar 26 | P.1/B.1.351 |
| CUY2-000263 | 18.3 | Montevideo | 2021 Mar 26 | P.1/B.1.351 |
| CUY2-000264 | 23.6 | Montevideo | 2021 Mar 26 | P.1/B.1.351 |
| CUY2-000265 | 20.7 | Montevideo | 2021 Mar 26 | P.1/B.1.351 |
| CUY2-000266 | 18.3 | Montevideo | 2021 Mar 26 | No VOC |
| CUY2-000267 | 18.3 | Tacuarembó | 2021 Mar 21 | P.1/B.1.351 |
| CUY2-000268 | 20.1 | Tacuarembó | 2021 Mar 26 | P.1/B.1.351 |
| M525_UYRO | 19.0 | Rocha | 2021 Feb 26 | P.1/B.1.351 |
| M530_UYRO | 14.6 | Rocha | 2021 Feb 23 | ND |
| M531_UYRO | 12.3 | Rocha | 2021 Feb 23 | ND |

*Bold text indicates samples that were successfully sequenced. NC, not conclusive by PCR VOC assay; ND, no data; VOC, variant of concern; SARS-CoV-2, severe acute respiratory syndrome coronavirus 2.

Appendix 1 Table 2. EpiCoV database identifiers (GISAID initiative) for SARS-CoV-2 downloaded sequences used to assess variants of concern, Uruguay*

| Sample identification | Date collected | Date uploaded | Collection locations |
|-----------------------|----------------|---------------|--|
| EPI_ISL_1001384 | 2021 Jan 31 | 2021 Feb 15 | South America / French Guiana / Cayenne |
| EPI_ISL_1001385 | 2021 Jan 31 | 2021 Feb 15 | South America / French Guiana / Cayenne |
| EPI_ISL_1034304 | 2021 Jan 19 | 2021 Feb 19 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1034306 | 2021 Jan 29 | 2021 Feb 19 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1039691 | 2021 Jan 19 | 2021 Feb 20 | South America / Brazil / Goias / Aparecida de Goiania |
| EPI_ISL_1039692 | 2021 Jan 19 | 2021 Feb 20 | South America / Brazil / Goias / Aparecida de Goiania |
| EPI_ISL_1039693 | 2021 Jan 19 | 2021 Feb 20 | South America / Brazil / Goias / Goiania |
| EPI_ISL_1039694 | 2021 Jan 19 | 2021 Feb 20 | South America / Brazil / Goias / Goiania |
| EPI_ISL_1039695 | 2021 Jan 19 | 2021 Feb 20 | South America / Brazil / Goias / Goiania |
| EPI_ISL_1041509 | 2021 Jan 20 | 2021 Feb 22 | South America / Brazil / Goias / Goiania |
| EPI_ISL_1068110 | 2020 Dec 28 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068111 | 2020 Dec 28 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068112 | 2020 Dec 29 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068114 | 2020 Dec 23 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068149 | 2020 Dec 18 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068150 | 2020 Dec 18 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068151 | 2020 Dec 21 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068154 | 2020 Dec 23 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068156 | 2020 Dec 27 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068157 | 2020 Dec 28 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068158 | 2020 Dec 28 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068159 | 2020 Dec 28 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068160 | 2020 Dec 29 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068169 | 2020 Dec 28 | 2021 Feb 25 | South America / Brazil / Amazonas / Rio Preto da Eva |
| EPI_ISL_1068198 | 2020 Dec 24 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068221 | 2020 Dec 21 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068222 | 2020 Dec 21 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068225 | 2020 Dec 23 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068226 | 2020 Dec 23 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068243 | 2020 Dec 23 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068248 | 2020 Dec 28 | 2021 Feb 25 | South America / Brazil / Amazonas / Careiro |
| EPI_ISL_1068249 | 2020 Dec 22 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068258 | 2021 Jan 13 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068260 | 2021 Jan 4 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068261 | 2021 Jan 5 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068262 | 2021 Jan 5 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068263 | 2021 Jan 6 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068264 | 2021 Jan 6 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068266 | 2021 Jan 7 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068268 | 2021 Jan 8 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068269 | 2021 Jan 8 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068270 | 2021 Jan 11 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068271 | 2021 Jan 11 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068272 | 2021 Jan 12 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068273 | 2021 Jan 12 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068274 | 2021 Jan 8 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068275 | 2021 Jan 8 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068276 | 2021 Jan 13 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068278 | 2021 Jan 13 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068279 | 2021 Jan 7 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068280 | 2021 Jan 6 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068281 | 2021 Jan 6 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068282 | 2021 Jan 11 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068283 | 2021 Jan 12 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068284 | 2021 Jan 13 | 2021 Feb 25 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1068285 | 2021 Jan 4 | 2021 Feb 25 | South America / Brazil / Amazonas / Anori |
| EPI_ISL_1068286 | 2021 Jan 4 | 2021 Feb 25 | South America / Brazil / Amazonas / São Gabriel da Cachoeira |
| EPI_ISL_1068287 | 2021 Jan 5 | 2021 Feb 25 | South America / Brazil / Amazonas / Iranduba |
| EPI_ISL_1068288 | 2021 Jan 5 | 2021 Feb 25 | South America / Brazil / Amazonas / Rio Preto da Eva |
| EPI_ISL_1068289 | 2021 Jan 5 | 2021 Feb 25 | South America / Brazil / Amazonas / Presidente Figueiredo |
| EPI_ISL_1068290 | 2021 Jan 5 | 2021 Feb 25 | South America / Brazil / Amazonas / Tabatinga |
| EPI_ISL_1068291 | 2021 Jan 7 | 2021 Feb 25 | South America / Brazil / Amazonas / Careiro |
| EPI_ISL_1068292 | 2021 Jan 6 | 2021 Feb 25 | South America / Brazil / Amazonas / Manacapuru |
| EPI_ISL_1078992 | 2021 Jan 15 | 2021 Feb 25 | South America / Brazil / Sao Paulo / Bauru |
| EPI_ISL_1079002 | 2021 Feb 5 | 2021 Feb 25 | South America / Brazil / Sao Paulo / Bauru |
| EPI_ISL_1079008 | 2021 Feb 11 | 2021 Feb 25 | South America / Brazil / Sao Paulo / Lencois Paulista |

| Sample identification | Date collected | Date uploaded | Collection locations |
|-----------------------|----------------|---------------|---|
| EPI_ISL_1079162 | 2021 Feb 8 | 2021 Feb 25 | South America / Brazil / Sao Paulo / Bauru |
| EPI_ISL_1086034 | 2021 Feb 11 | 2021 Feb 26 | South America / Brazil / Sao Paulo / Araraquara |
| EPI_ISL_1086035 | 2021 Feb 10 | 2021 Feb 26 | South America / Brazil / Sao Paulo / Lencois Paulista |
| EPI_ISL_1086036 | 2021 Feb 10 | 2021 Feb 26 | South America / Brazil / Sao Paulo / Lencois Paulista |
| EPI_ISL_1086037 | 2021 Feb 9 | 2021 Feb 26 | South America / Brazil / Sao Paulo / Araraquara |
| EPI_ISL_1086038 | 2021 Feb 9 | 2021 Feb 26 | South America / Brazil / Sao Paulo / Araraquara |
| EPI_ISL_1086039 | 2021 Feb 9 | 2021 Feb 26 | South America / Brazil / Sao Paulo / Araraquara |
| EPI_ISL_1086040 | 2021 Feb 9 | 2021 Feb 26 | South America / Brazil / Sao Paulo / Araraquara |
| EPI_ISL_1086041 | 2021 Feb 9 | 2021 Feb 26 | South America / Brazil / Sao Paulo / Araraquara |
| EPI_ISL_1086042 | 2021 Feb 9 | 2021 Feb 26 | South America / Brazil / Sao Paulo / Araraquara |
| EPI_ISL_1086043 | 2021 Feb 9 | 2021 Feb 26 | South America / Brazil / Sao Paulo / Araraquara |
| EPI_ISL_1086044 | 2021 Feb 8 | 2021 Feb 26 | South America / Brazil / Sao Paulo / Lencois Paulista |
| EPI_ISL_1086045 | 2021 Feb 5 | 2021 Feb 26 | South America / Brazil / Sao Paulo / Lencois Paulista |
| EPI_ISL_1086046 | 2021 Feb 4 | 2021 Feb 26 | South America / Brazil / Sao Paulo / Lencois Paulista |
| EPI_ISL_1086047 | 2021 Jan 30 | 2021 Feb 26 | South America / Brazil / Sao Paulo / Jau |
| EPI_ISL_1086048 | 2021 Jan 14 | 2021 Feb 26 | South America / Brazil / Sao Paulo / Jau |
| EPI_ISL_1086049 | 2021 Jan 11 | 2021 Feb 26 | South America / Brazil / Sao Paulo / Jau |
| EPI_ISL_1096120 | 2021 Jan 15 | 2021 Feb 28 | South America / Brazil / Sao Paulo / Jau |
| EPI_ISL_1096121 | 2021 Jan 25 | 2021 Feb 28 | South America / Brazil / Sao Paulo / Araraquara |
| EPI_ISL_1096122 | 2021 Jan 26 | 2021 Feb 28 | South America / Brazil / Sao Paulo / Jau |
| EPI_ISL_1096124 | 2021 Jan 28 | 2021 Feb 28 | South America / Brazil / Sao Paulo / Dois Corregos |
| EPI_ISL_1096125 | 2021 Feb 2 | 2021 Feb 28 | South America / Brazil / Sao Paulo / Jau |
| EPI_ISL_1096127 | 2021 Feb 3 | 2021 Feb 28 | South America / Brazil / Sao Paulo / Bocaina |
| EPI_ISL_1096131 | 2021 Feb 8 | 2021 Feb 28 | South America / Brazil / Sao Paulo / Lins |
| EPI_ISL_1096132 | 2021 Feb 8 | 2021 Feb 28 | South America / Brazil / Sao Paulo / Lins |
| EPI_ISL_1096134 | 2021 Feb 8 | 2021 Feb 28 | South America / Brazil / Sao Paulo / Lins |
| EPI_ISL_1096135 | 2021 Feb 9 | 2021 Feb 28 | South America / Brazil / Sao Paulo / Araraquara |
| EPI_ISL_1096136 | 2021 Feb 10 | 2021 Feb 28 | South America / Brazil / Sao Paulo / Jau |
| EPI_ISL_1096262 | 2021 Feb 12 | 2021 Feb 28 | South America / French Guiana / Cayenne |
| EPI_ISL_1121307 | 2021 Feb 13 | 2021 Mar 3 | South America / Brazil / Sao Paulo / Cajamar |
| EPI_ISL_1121308 | 2021 Feb 11 | 2021 Mar 3 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1121309 | 2021 Feb 10 | 2021 Mar 3 | South America / Brazil / Sao Paulo / Osasco |
| EPI_ISL_1121310 | 2021 Feb 8 | 2021 Mar 3 | South America / Brazil / Sao Paulo / Lins |
| EPI_ISL_1121311 | 2021 Feb 6 | 2021 Mar 3 | South America / Brazil / Sao Paulo / Mococa |
| EPI_ISL_1121312 | 2021 Feb 5 | 2021 Mar 3 | South America / Brazil / Sao Paulo / Lins |
| EPI_ISL_1121313 | 2021 Feb 5 | 2021 Mar 3 | South America / Brazil / Sao Paulo / Lins |
| EPI_ISL_1121314 | 2021 Feb 5 | 2021 Mar 3 | South America / Brazil / Sao Paulo / Lins |
| EPI_ISL_1121315 | 2021 Jan 16 | 2021 Mar 3 | South America / Brazil / Sao Paulo / Borebi |
| EPI_ISL_1121316 | 2021 Jan 10 | 2021 Mar 3 | South America / Brazil / Rio Grande do Sul / Porto Alegre |
| EPI_ISL_1123373 | 2021 Feb 15 | 2021 Mar 3 | South America / Brazil / Sao Paulo / Biritiba Mirim |
| EPI_ISL_1139070 | 2021 Jan 20 | 2021 Mar 4 | South America / Brazil / Sao Paulo / Araraquara |
| EPI_ISL_1164970 | 2021 Feb 5 | 2021 Mar 5 | South America / Brazil / Ceara |
| EPI_ISL_1164971 | 2021 Feb 5 | 2021 Mar 5 | South America / Brazil / Ceara |
| EPI_ISL_1164972 | 2021 Feb 2 | 2021 Mar 5 | South America / Brazil / Para |
| EPI_ISL_1164973 | 2021 Jan 29 | 2021 Mar 5 | South America / Brazil / Ceara |
| EPI_ISL_1164978 | 2021 Jan 19 | 2021 Mar 5 | South America / Brazil / Para |
| EPI_ISL_1164980 | 2021 Jan 18 | 2021 Mar 5 | South America / Brazil / Ceara |
| EPI_ISL_1164984 | 2021 Jan 16 | 2021 Mar 5 | South America / Brazil / Amapa |
| EPI_ISL_1164991 | 2021 Jan 7 | 2021 Mar 5 | South America / Brazil / Paraiba |
| EPI_ISL_1166615 | 2021 Jan 18 | 2021 Mar 5 | South America / Brazil / Amazonas |
| EPI_ISL_1171619 | 2021 Feb 15 | 2021 Mar 7 | South America / Brazil / Sao Paulo / Presidente Venceslau |
| EPI_ISL_1171648 | 2021 Jan 5 | 2021 Mar 7 | South America / Brazil / Sao Paulo / Mococa |
| EPI_ISL_1171649 | 2021 Jan 5 | 2021 Mar 7 | South America / Brazil / Sao Paulo / Mococa |
| EPI_ISL_1171650 | 2021 Jan 7 | 2021 Mar 7 | South America / Brazil / Sao Paulo / Mococa |
| EPI_ISL_1171653 | 2021 Feb 5 | 2021 Mar 7 | South America / Brazil / Sao Paulo / Presidente Prudente |
| EPI_ISL_1171656 | 2021 Feb 17 | 2021 Mar 7 | South America / Brazil / Sao Paulo / Presidente Prudente |
| EPI_ISL_1171657 | 2021 Feb 17 | 2021 Mar 7 | South America / Brazil / Sao Paulo / Presidente Prudente |
| EPI_ISL_1171658 | 2021 Feb 15 | 2021 Mar 7 | South America / Brazil / Sao Paulo / Presidente Prudente |
| EPI_ISL_1171666 | 2021 Feb 16 | 2021 Mar 7 | South America / Brazil / Sao Paulo / Martinopolis |
| EPI_ISL_1171672 | 2021 Jan 26 | 2021 Mar 7 | South America / Brazil / Sao Paulo / Tarabai |
| EPI_ISL_1171674 | 2021 Feb 12 | 2021 Mar 7 | South America / Brazil / Sao Paulo / Dracena |
| EPI_ISL_1182543 | 2021 Feb 8 | 2021 Mar 8 | South America / Brazil / Minas Gerais / Coromandel |
| EPI_ISL_1182544 | 2021 Jan 30 | 2021 Mar 8 | South America / Brazil / Minas Gerais / Belo Horizonte |
| EPI_ISL_1182545 | 2021 Jan 30 | 2021 Mar 8 | South America / Brazil / Minas Gerais / Belo Horizonte |
| EPI_ISL_1196296 | 2021 Feb 5 | 2021 Mar 10 | South America / Brazil / Sao Paulo / Mococa |
| EPI_ISL_1196299 | 2021 Feb 4 | 2021 Mar 10 | South America / Brazil / Sao Paulo / Marilia |
| EPI_ISL_1201884 | 2021 Jan 21 | 2021 Mar 10 | South America / Brazil / Sao Paulo / Guarulhos |
| EPI_ISL_1201893 | 2021 Feb 18 | 2021 Mar 10 | South America / Brazil / Sao Paulo / Avare |

| Sample identification | Date collected | Date uploaded | Collection locations |
|-----------------------|----------------|---------------|---|
| EPI_ISL_1213168 | 2021 Feb 14 | 2021 Mar 11 | South America / Brazil / Bahia / Ilheus |
| EPI_ISL_1213170 | 2021 Feb 8 | 2021 Mar 11 | South America / Brazil / Bahia / Itabuna |
| EPI_ISL_1213171 | 2021 Feb 3 | 2021 Mar 11 | South America / Brazil / Rio de Janeiro / Rio de Janeiro |
| EPI_ISL_1213173 | 2021 Feb 1 | 2021 Mar 11 | South America / Brazil / Rio Grande do Norte / Natal |
| EPI_ISL_1213175 | 2021 Feb 1 | 2021 Mar 11 | South America / Brazil / Rio Grande do Norte / Natal |
| EPI_ISL_1213177 | 2021 Feb 1 | 2021 Mar 11 | South America / Brazil / Rio Grande do Norte / Natal |
| EPI_ISL_1213178 | 2021 Feb 1 | 2021 Mar 11 | South America / Brazil / Rio Grande do Norte / Natal |
| EPI_ISL_1213180 | 2021 Feb 1 | 2021 Mar 11 | South America / Brazil / Rio Grande do Norte / Natal |
| EPI_ISL_1213182 | 2021 Feb 1 | 2021 Mar 11 | South America / Brazil / Rio Grande do Norte / Natal |
| EPI_ISL_1213183 | 2021 Jan 29 | 2021 Mar 11 | South America / Brazil / Rio Grande do Norte / Natal |
| EPI_ISL_1213185 | 2021 Jan 28 | 2021 Mar 11 | South America / Brazil / Rio Grande do Norte / Natal |
| EPI_ISL_1213187 | 2021 Jan 28 | 2021 Mar 11 | South America / Brazil / Rio Grande do Norte / Natal |
| EPI_ISL_1213189 | 2021 Jan 27 | 2021 Mar 11 | South America / Brazil / Paraiba / Conde |
| EPI_ISL_1213190 | 2021 Jan 26 | 2021 Mar 11 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1213192 | 2021 Jan 26 | 2021 Mar 11 | South America / Brazil / Rio Grande do Norte / Natal |
| EPI_ISL_1213194 | 2021 Jan 26 | 2021 Mar 11 | South America / Brazil / Rio Grande do Norte / Natal |
| EPI_ISL_1213196 | 2021 Jan 26 | 2021 Mar 11 | South America / Brazil / Rio Grande do Norte / Natal |
| EPI_ISL_1213197 | 2021 Jan 26 | 2021 Mar 11 | South America / Brazil / Rio Grande do Norte / Natal |
| EPI_ISL_1213199 | 2021 Jan 26 | 2021 Mar 11 | South America / Brazil / Rio Grande do Norte / Natal |
| EPI_ISL_1213201 | 2021 Jan 21 | 2021 Mar 11 | South America / Brazil / Paraiba / Joao pessoa |
| EPI_ISL_1213202 | 2021 Jan 18 | 2021 Mar 11 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1213204 | 2021 Jan 18 | 2021 Mar 11 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1213206 | 2021 Jan 18 | 2021 Mar 11 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1213207 | 2021 Jan 11 | 2021 Mar 11 | South America / Brazil / Paraiba / Inga |
| EPI_ISL_1219021 | 2021 Feb 24 | 2021 Mar 11 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1219025 | 2021 Feb 2 | 2021 Mar 11 | South America / Brazil / Sao Paulo / Guapiara |
| EPI_ISL_1219029 | 2021 Jan 23 | 2021 Mar 11 | South America / Brazil / Sao Paulo / Guarulhos |
| EPI_ISL_1219030 | 2021 Jan 23 | 2021 Mar 11 | South America / Brazil / Sao Paulo / Guarulhos |
| EPI_ISL_1219033 | 2021 Jan 22 | 2021 Mar 11 | South America / Brazil / Sao Paulo / Guarulhos |
| EPI_ISL_1219036 | 2021 Jan 21 | 2021 Mar 11 | South America / Brazil / Sao Paulo / Guarulhos |
| EPI_ISL_1219133 | 2021 Jan 26 | 2021 Mar 11 | South America / Brazil / Parana / Curitiba |
| EPI_ISL_1219134 | 2021 Jan 27 | 2021 Mar 11 | South America / Brazil / Alagoas / Maceio |
| EPI_ISL_1219135 | 2021 Jan 27 | 2021 Mar 11 | South America / Brazil / Alagoas / Maceio |
| EPI_ISL_1219136 | 2021 Feb 15 | 2021 Mar 11 | South America / Brazil / Bahia / Salvador |
| EPI_ISL_1239012 | 2021 Jan 26 | 2021 Mar 13 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1239111 | 2021 Feb 13 | 2021 Mar 14 | South America / Brazil / Rio de Janeiro / Petropolis |
| EPI_ISL_1239119 | 2021 Jan 26 | 2021 Mar 14 | South America / Brazil / Espirito Santo / Lorena |
| EPI_ISL_1239137 | 2021 Mar 1 | 2021 Mar 14 | South America / Brazil / Minas Gerais / Monte Alegre de Minas |
| EPI_ISL_1239138 | 2021 Mar 2 | 2021 Mar 14 | South America / Brazil / Minas Gerais / Montes Claros |
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| EPI_ISL_1261687 | 2021 Feb 15 | 2021 Mar 16 | South America / Brazil / Roraima |
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| EPI_ISL_1261693 | 2021 Feb 15 | 2021 Mar 16 | South America / Brazil / Ceara |
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| EPI_ISL_1262913 | 2021 Feb 21 | 2021 Mar 16 | South America / French Guiana / Cayenne |
| EPI_ISL_1289960 | 2021 Jan 11 | 2021 Mar 18 | South America / Brazil / Sao Paulo / Ribeirao Preto |
| EPI_ISL_1293053 | 2021 Jan 18 | 2021 Mar 19 | South America / Brazil / Rondonia / Porto Velho |
| EPI_ISL_1293054 | 2021 Jan 18 | 2021 Mar 19 | South America / Brazil / Rondonia / Porto Velho |
| EPI_ISL_1293055 | 2021 Jan 18 | 2021 Mar 19 | South America / Brazil / Rondonia / Porto Velho |
| EPI_ISL_1293059 | 2021 Feb 2 | 2021 Mar 19 | South America / Brazil / Sao Paulo / Guapiara |
| EPI_ISL_1293063 | 2021 Feb 6 | 2021 Mar 19 | South America / Brazil / Sao Paulo / Salto |
| EPI_ISL_1293067 | 2021 Feb 8 | 2021 Mar 19 | South America / Brazil / Sao Paulo / Guapiara |
| EPI_ISL_1293075 | 2021 Feb 3 | 2021 Mar 19 | South America / Brazil / Sao Paulo / Sorocaba |
| EPI_ISL_1293077 | 2021 Feb 3 | 2021 Mar 19 | South America / Brazil / Sao Paulo / Tiete |
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| EPI_ISL_1303509 | 2021 Feb 1 | 2021 Mar 21 | South America / Brazil / Tocantins / Palmas |
| EPI_ISL_1303512 | 2021 Jan 25 | 2021 Mar 21 | South America / Brazil / Goias / Goiania |
| EPI_ISL_1303513 | 2021 Jan 13 | 2021 Mar 21 | South America / Brazil / Goias / Turvania |

| Sample identification | Date collected | Date uploaded | Collection locations |
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| EPI_ISL_1303517 | 2021 Feb 5 | 2021 Mar 21 | South America / Brazil / Goias / Jaragua |
| EPI_ISL_1303520 | 2021 Feb 10 | 2021 Mar 21 | South America / Brazil / Sao Paulo / Meridiano |
| EPI_ISL_1303522 | 2021 Feb 12 | 2021 Mar 21 | South America / Brazil / Sao Paulo / Votuporanga |
| EPI_ISL_1303525 | 2021 Feb 16 | 2021 Mar 21 | South America / Brazil / Sao Paulo / Ipigua |
| EPI_ISL_1303529 | 2021 Feb 12 | 2021 Mar 21 | South America / Brazil / Sao Paulo / Sao Jose do Rio Preto |
| EPI_ISL_1303536 | 2021 Feb 15 | 2021 Mar 21 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1303537 | 2021 Feb 15 | 2021 Mar 21 | South America / Brazil / Sao Paulo / Sao Paulo |
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| EPI_ISL_1303541 | 2021 Feb 15 | 2021 Mar 21 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1303542 | 2021 Feb 15 | 2021 Mar 21 | South America / Brazil / Sao Paulo / Ceario Lange |
| EPI_ISL_1303543 | 2021 Feb 15 | 2021 Mar 21 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1303545 | 2021 Feb 15 | 2021 Mar 21 | South America / Brazil / Sao Paulo / Maua |
| EPI_ISL_1303546 | 2021 Feb 15 | 2021 Mar 21 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1303547 | 2021 Feb 15 | 2021 Mar 21 | South America / Brazil / Sao Paulo / Diadema |
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| EPI_ISL_1303549 | 2021 Feb 16 | 2021 Mar 21 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1321468 | 2021 Jan 28 | 2021 Mar 23 | South America / Chile / Maule / San Clemente |
| EPI_ISL_1321469 | 2021 Feb 25 | 2021 Mar 23 | South America / Chile / Maule / Talca |
| EPI_ISL_1321470 | 2021 Feb 24 | 2021 Mar 23 | South America / Chile / Maule / Molina |
| EPI_ISL_1321471 | 2021 Feb 28 | 2021 Mar 23 | South America / Chile / Valparaiso / Valparaiso |
| EPI_ISL_1321472 | 2021 Mar 10 | 2021 Mar 23 | South America / Chile / Region Metropolitana de Santiago / La Pintana |
| EPI_ISL_1321473 | 2021 Mar 11 | 2021 Mar 23 | South America / Chile / Region Metropolitana de Santiago / La Granja |
| EPI_ISL_1358285 | 2021 Feb 24 | 2021 Mar 25 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1358286 | 2021 Feb 24 | 2021 Mar 25 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1358287 | 2021 Mar 7 | 2021 Mar 25 | South America / Brazil / Sao Paulo / Sao Paulo |
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| EPI_ISL_1358292 | 2021 Feb 12 | 2021 Mar 25 | South America / Brazil / Sao Paulo / Diadema |
| EPI_ISL_1358293 | 2021 Feb 11 | 2021 Mar 25 | South America / Brazil / Sao Paulo / Diadema |
| EPI_ISL_1358300 | 2021 Feb 22 | 2021 Mar 25 | South America / Brazil / Tocantins / Gurupi |
| EPI_ISL_1358301 | 2021 Feb 22 | 2021 Mar 25 | South America / Brazil / Tocantins / Palmas |
| EPI_ISL_1358304 | 2021 Feb 10 | 2021 Mar 25 | South America / Brazil / Mato Grosso do Sul / Campo Grande |
| EPI_ISL_1358318 | 2021 Feb 27 | 2021 Mar 25 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1358319 | 2021 Feb 27 | 2021 Mar 25 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1358320 | 2021 Feb 26 | 2021 Mar 25 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1358321 | 2021 Feb 16 | 2021 Mar 25 | South America / Brazil / Sao Paulo / Diadema |
| EPI_ISL_1365747 | 2021 Mar 12 | 2021 Mar 26 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1381045 | 2021 Feb 11 | 2021 Mar 28 | South America / Brazil / Sao Paulo / Diadema |
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| EPI_ISL_1381056 | 2021 Feb 11 | 2021 Mar 28 | South America / Brazil / Sao Paulo / Maua |
| EPI_ISL_1381057 | 2021 Feb 11 | 2021 Mar 28 | South America / Brazil / Sao Paulo / Rio Grande da Serra |
| EPI_ISL_1381059 | 2021 Feb 11 | 2021 Mar 28 | South America / Brazil / Sao Paulo / Santo Andre |
| EPI_ISL_1381060 | 2021 Feb 10 | 2021 Mar 28 | South America / Brazil / Sao Paulo / Sao Bernardo do Campo |
| EPI_ISL_1381061 | 2021 Feb 10 | 2021 Mar 28 | South America / Brazil / Sao Paulo / Sao Bernardo do Campo |
| EPI_ISL_1381062 | 2021 Feb 10 | 2021 Mar 28 | South America / Brazil / Sao Paulo / Sao Bernardo do Campo |
| EPI_ISL_1381063 | 2021 Feb 10 | 2021 Mar 28 | South America / Brazil / Sao Paulo / Sao Bernardo do Campo |
| EPI_ISL_1381065 | 2021 Feb 10 | 2021 Mar 28 | South America / Brazil / Sao Paulo / Sao Bernardo do Campo |
| EPI_ISL_1381068 | 2021 Mar 2 | 2021 Mar 28 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1381069 | 2021 Mar 2 | 2021 Mar 28 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1381070 | 2021 Mar 12 | 2021 Mar 28 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1381071 | 2021 Mar 12 | 2021 Mar 28 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1381214 | 2021 Feb 26 | 2021 Mar 28 | South America / French Guiana / Cayenne |
| EPI_ISL_1381216 | 2021 Mar 1 | 2021 Mar 28 | South America / French Guiana / Cayenne |
| EPI_ISL_1381217 | 2021 Mar 3 | 2021 Mar 28 | South America / French Guiana / Cayenne |
| EPI_ISL_1381222 | 2021 Mar 1 | 2021 Mar 28 | South America / French Guiana / Cayenne |
| EPI_ISL_1402431 | 2021 Jan 7 | 2021 Mar 30 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1443196 | 2020 Dec 28 | 2021 Apr 1 | South America / Brazil / Bahia / Salvador |
| EPI_ISL_1443197 | 2020 Dec 28 | 2021 Apr 1 | South America / Brazil / Bahia / Salvador |
| EPI_ISL_1443198 | 2020 Dec 28 | 2021 Apr 1 | South America / Brazil / Bahia / Salvador |
| EPI_ISL_1464627 | 2021 Mar 9 | 2021 Apr 2 | South America / Brazil / Sao Paulo / Sao Paulo |
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| Sample identification | Date collected | Date uploaded | Collection locations |
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| EPI_ISL_1468413 | 2021 Mar 16 | 2021 Apr 3 | South America / Brazil / Goias / Cidade Ocidental |
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| EPI_ISL_1468415 | 2021 Mar 16 | 2021 Apr 3 | South America / Brazil / Goias / Goiania |
| EPI_ISL_1468416 | 2021 Feb 22 | 2021 Apr 3 | South America / Brazil / Sao Paulo / Andradina |
| EPI_ISL_1468417 | 2021 Feb 2 | 2021 Apr 3 | South America / Brazil / Sao Paulo / Aracatuba |
| EPI_ISL_1468418 | 2021 Jan 11 | 2021 Apr 3 | South America / Brazil / Sao Paulo / Birigui |
| EPI_ISL_1468419 | 2021 Feb 24 | 2021 Apr 3 | South America / Brazil / Sao Paulo / Aracatuba |
| EPI_ISL_1468420 | 2021 Feb 22 | 2021 Apr 3 | South America / Brazil / Sao Paulo / Birigui |
| EPI_ISL_1468421 | 2021 Feb 22 | 2021 Apr 3 | South America / Brazil / Sao Paulo / Birigui |
| EPI_ISL_1468422 | 2021 Feb 17 | 2021 Apr 3 | South America / Brazil / Sao Paulo / Avanhandava |
| EPI_ISL_1468423 | 2021 Feb 17 | 2021 Apr 3 | South America / Brazil / Sao Paulo / Avanhandava |
| EPI_ISL_1468424 | 2021 Feb 22 | 2021 Apr 3 | South America / Brazil / Sao Paulo / Aracatuba |
| EPI_ISL_1468425 | 2021 Feb 16 | 2021 Apr 3 | South America / Brazil / Sao Paulo / Birigui |
| EPI_ISL_1468426 | 2021 Feb 18 | 2021 Apr 3 | South America / Brazil / Sao Paulo / Matao |
| EPI_ISL_1468427 | 2021 Feb 9 | 2021 Apr 3 | South America / Brazil / Sao Paulo / Matao |
| EPI_ISL_1468428 | 2021 Jan 31 | 2021 Apr 3 | South America / Brazil / Sao Paulo / Taguaritinga |
| EPI_ISL_1468429 | 2021 Feb 23 | 2021 Apr 3 | South America / Brazil / Sao Paulo / Matao |
| EPI_ISL_1468430 | 2021 Feb 3 | 2021 Apr 3 | South America / Brazil / Sao Paulo / Matao |
| EPI_ISL_1470421 | 2021 Mar 8 | 2021 Apr 5 | South America / Chile / Nuble / Chillan |
| EPI_ISL_1470429 | 2021 Mar 15 | 2021 Apr 5 | South America / Chile / Tarapaca / Iquique |
| EPI_ISL_1470430 | 2021 Mar 15 | 2021 Apr 5 | South America / Chile / Tarapaca / Iquique |
| EPI_ISL_1470436 | 2021 Mar 17 | 2021 Apr 5 | South America / Chile / Region Metropolitana de Santiago / Melipilla |
| EPI_ISL_1470437 | 2021 Mar 17 | 2021 Apr 5 | South America / Chile / Region Metropolitana de Santiago / Talagante |
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| EPI_ISL_1470440 | 2021 Mar 17 | 2021 Apr 5 | South America / Chile / Region Metropolitana de Santiago / Melipilla |
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| EPI_ISL_1470451 | 2021 Mar 22 | 2021 Apr 5 | South America / Chile / Region Metropolitana de Santiago / San Bernardo |
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| EPI_ISL_1470454 | 2021 Mar 22 | 2021 Apr 5 | South America / Chile / Region Metropolitana de Santiago / Las Condes |
| EPI_ISL_1470457 | 2021 Mar 21 | 2021 Apr 5 | South America / Chile / Region Metropolitana de Santiago / Huechuraba |
| EPI_ISL_1470463 | 2021 Mar 24 | 2021 Apr 5 | South America / Chile / Maule / Talca |
| EPI_ISL_1470465 | 2021 Mar 24 | 2021 Apr 5 | South America / Chile / Maule / Talca |
| EPI_ISL_1470477 | 2021 Mar 23 | 2021 Apr 5 | South America / Chile / Los Lagos / Puerto Montt |
| EPI_ISL_1470478 | 2021 Mar 23 | 2021 Apr 5 | South America / Chile / Los Lagos / Puerto Montt |
| EPI_ISL_1470491 | 2021 Mar 12 | 2021 Apr 5 | South America / Chile / Region Metropolitana de Santiago / Puente Alto |
| EPI_ISL_1470497 | 2021 Mar 15 | 2021 Apr 5 | South America / Chile / Region Metropolitana de Santiago / San Ramon |
| EPI_ISL_1470501 | 2021 Mar 16 | 2021 Apr 5 | South America / Chile / Region Metropolitana de Santiago / Puente Alto |
| EPI_ISL_1470506 | 2021 Mar 17 | 2021 Apr 5 | South America / Chile / Region Metropolitana de Santiago / San Ramon |
| EPI_ISL_1470508 | 2021 Mar 18 | 2021 Apr 5 | South America / Chile / Region Metropolitana de Santiago / Puente Alto |
| EPI_ISL_1470517 | 2021 Mar 22 | 2021 Apr 5 | South America / Chile / Region Metropolitana de Santiago / San Ramon |
| EPI_ISL_1470522 | 2021 Mar 24 | 2021 Apr 5 | South America / Chile / Region Metropolitana de Santiago / La Pintana |
| EPI_ISL_1470523 | 2021 Mar 24 | 2021 Apr 5 | South America / Chile / Region Metropolitana de Santiago / La Pintana |
| EPI_ISL_1470531 | 2021 Mar 28 | 2021 Apr 5 | South America / Chile / Maule / Molina |
| EPI_ISL_1470534 | 2021 Mar 28 | 2021 Apr 5 | South America / Chile / Maule / Molina |
| EPI_ISL_1470542 | 2021 Mar 26 | 2021 Apr 5 | South America / Chile / Los Lagos / Puerto Montt |
| EPI_ISL_1470548 | 2021 Mar 30 | 2021 Apr 5 | South America / Chile / Tarapaca / Iquique |
| EPI_ISL_1470549 | 2021 Mar 28 | 2021 Apr 5 | South America / Chile / Tarapaca / Iquique |
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| EPI_ISL_1470551 | 2021 Mar 28 | 2021 Apr 5 | South America / Chile / Tarapaca / Iquique |
| EPI_ISL_1470552 | 2021 Mar 28 | 2021 Apr 5 | South America / Chile / Tarapaca / Iquique |
| EPI_ISL_1470554 | 2021 Mar 29 | 2021 Apr 5 | South America / Chile / Tarapaca / Iquique |
| EPI_ISL_1470558 | 2021 Mar 24 | 2021 Apr 5 | South America / Chile / Region Metropolitana de Santiago / Pudahuel |
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| EPI_ISL_1493575 | 2021 Feb 28 | 2021 Apr 6 | South America / Brazil / Goias / Simao |
| EPI_ISL_1493576 | 2021 Feb 27 | 2021 Apr 6 | South America / Brazil / Goias / Goiania |
| EPI_ISL_1493577 | 2021 Feb 27 | 2021 Apr 6 | South America / Brazil / Goias / Trindade |
| EPI_ISL_1493578 | 2021 Feb 26 | 2021 Apr 6 | South America / Brazil / Rondonia / Porto Velho |
| EPI_ISL_1493579 | 2021 Feb 25 | 2021 Apr 6 | South America / Brazil / Rondonia / Porto Velho |
| EPI_ISL_1493580 | 2021 Feb 9 | 2021 Apr 6 | South America / Brazil / Sao Paulo / Orlandia |
| EPI_ISL_1493581 | 2021 Feb 7 | 2021 Apr 6 | South America / Brazil / Sao Paulo / Taguaritinga |
| EPI_ISL_1493582 | 2021 Jan 31 | 2021 Apr 6 | South America / Brazil / Sao Paulo / Orlandia |
| EPI_ISL_1494923 | 2021 Feb 23 | 2021 Apr 7 | South America / Brazil / Sao Paulo / Ituverava |
| EPI_ISL_1494924 | 2021 Feb 9 | 2021 Apr 7 | South America / Brazil / Rondonia / Porto Velho |
| EPI_ISL_1498380 | 2021 Feb 17 | 2021 Apr 7 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1498916 | 2021 Feb 17 | 2021 Apr 7 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1498917 | 2021 Feb 1 | 2021 Apr 7 | South America / Brazil / Sao Paulo / Mirandopolis |
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| Sample identification | Date collected | Date uploaded | Collection locations |
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| EPI_ISL_1511643 | 2021 Jan 29 | 2021 Apr 8 | South America / Brazil / Sao Paulo |
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| EPI_ISL_1520109 | 2021 Mar 3 | 2021 Apr 9 | South America / Brazil / Rondonia / Porto Velho |
| EPI_ISL_1520123 | 2021 Feb 19 | 2021 Apr 9 | South America / Brazil / Sao Paulo / Espirito Santo do Pinhal |
| EPI_ISL_1520129 | 2021 Feb 19 | 2021 Apr 9 | South America / Brazil / Sao Paulo / Mococa |
| EPI_ISL_1520130 | 2021 Feb 19 | 2021 Apr 9 | South America / Brazil / Sao Paulo / Mococa |
| EPI_ISL_1520131 | 2021 Feb 19 | 2021 Apr 9 | South America / Brazil / Sao Paulo / Mococa |
| EPI_ISL_1520136 | 2021 Feb 19 | 2021 Apr 9 | South America / Brazil / Sao Paulo / Mococa |
| EPI_ISL_1521321 | 2021 Feb 23 | 2021 Apr 9 | South America / Suriname / Suriname |
| EPI_ISL_1521322 | 2021 Mar 22 | 2021 Apr 9 | South America / Suriname / Suriname |
| EPI_ISL_1521323 | 2021 Mar 20 | 2021 Apr 9 | South America / Suriname / Suriname |
| EPI_ISL_1521324 | 2021 Mar 1 | 2021 Apr 9 | South America / Suriname / Suriname |
| EPI_ISL_1521325 | 2021 Mar 5 | 2021 Apr 9 | South America / Suriname / Suriname |
| EPI_ISL_1521326 | 2021 Feb 22 | 2021 Apr 9 | South America / Suriname / Suriname |
| EPI_ISL_1521327 | 2021 Mar 23 | 2021 Apr 9 | South America / Suriname / Suriname |
| EPI_ISL_1521328 | 2021 Mar 23 | 2021 Apr 9 | South America / Suriname / Suriname |
| EPI_ISL_1533609 | 2021 Feb 9 | 2021 Apr 10 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_1533689 | 2021 Feb 19 | 2021 Apr 10 | South America / Brazil / Sao Paulo / Mococa |
| EPI_ISL_1533690 | 2021 Feb 19 | 2021 Apr 10 | South America / Brazil / Sao Paulo / Mococa |
| EPI_ISL_1533695 | 2021 Feb 11 | 2021 Apr 10 | South America / Brazil / Sao Paulo / Campinas |
| EPI_ISL_1533696 | 2021 Jan 28 | 2021 Apr 10 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1533699 | 2021 Feb 10 | 2021 Apr 10 | South America / Brazil / Sao Paulo / Biritiba-Mirim |
| EPI_ISL_1533701 | 2021 Feb 15 | 2021 Apr 10 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1533702 | 2021 Feb 16 | 2021 Apr 10 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1533703 | 2021 Feb 20 | 2021 Apr 10 | South America / Brazil / Sao Paulo / Campinas |
| EPI_ISL_1533704 | 2021 Feb 20 | 2021 Apr 10 | South America / Brazil / Sao Paulo / Atibaia |
| EPI_ISL_1533706 | 2021 Feb 23 | 2021 Apr 10 | South America / Brazil / Sao Paulo / Sao Paulo |
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| EPI_ISL_1533710 | 2021 Mar 2 | 2021 Apr 10 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1533711 | 2021 Feb 24 | 2021 Apr 10 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1533712 | 2021 Mar 9 | 2021 Apr 10 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1533713 | 2021 Mar 8 | 2021 Apr 10 | South America / Brazil / Sao Paulo / Hortolandia |
| EPI_ISL_1533714 | 2021 Mar 6 | 2021 Apr 10 | South America / Brazil / Sao Paulo / Osasco |
| EPI_ISL_1533715 | 2021 Mar 11 | 2021 Apr 10 | South America / Brazil / Sao Paulo / Aracatuba |
| EPI_ISL_1533716 | 2021 Mar 10 | 2021 Apr 10 | South America / Brazil / Sao Paulo / Campo Limpo Paulista |
| EPI_ISL_1533717 | 2021 Mar 7 | 2021 Apr 10 | South America / Brazil / Sao Paulo / Hortolandia |
| EPI_ISL_1533718 | 2021 Mar 7 | 2021 Apr 10 | South America / Brazil / Sao Paulo / Guarulhos |
| EPI_ISL_1533719 | 2021 Mar 7 | 2021 Apr 10 | South America / Brazil / Sao Paulo / Holambra |
| EPI_ISL_1533720 | 2021 Mar 6 | 2021 Apr 10 | South America / Brazil / Sao Paulo / Penapolis |
| EPI_ISL_1533722 | 2021 Mar 9 | 2021 Apr 10 | South America / Brazil / Sao Paulo / Piracaia |
| EPI_ISL_1533723 | 2021 Mar 8 | 2021 Apr 10 | South America / Brazil / Sao Paulo / Itaquaquecetuba |
| EPI_ISL_1533725 | 2021 Mar 3 | 2021 Apr 10 | South America / Brazil / Sao Paulo / Guarulhos |
| EPI_ISL_1533726 | 2021 Mar 5 | 2021 Apr 10 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1533727 | 2021 Mar 13 | 2021 Apr 10 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1533992 | 2021 Jan 27 | 2021 Apr 10 | South America / Brazil / Santa Catarina / Florianopolis |
| EPI_ISL_1533993 | 2021 Jan 28 | 2021 Apr 10 | South America / Brazil / Santa Catarina / Palhoca |
| EPI_ISL_1533994 | 2021 Jan 28 | 2021 Apr 10 | South America / Brazil / Santa Catarina / Palhoca |
| EPI_ISL_1533996 | 2021 Feb 1 | 2021 Apr 10 | South America / Brazil / Santa Catarina / Sao Jose |
| EPI_ISL_1533999 | 2021 Feb 18 | 2021 Apr 10 | South America / Brazil / Parana / Londrina |
| EPI_ISL_1534000 | 2021 Feb 19 | 2021 Apr 10 | South America / Brazil / Parana / Londrina |
| EPI_ISL_1534001 | 2021 Feb 19 | 2021 Apr 10 | South America / Brazil / Parana / Londrina |
| EPI_ISL_1534002 | 2021 Feb 23 | 2021 Apr 10 | South America / Brazil / Santa Catarina / Joinville |
| EPI_ISL_1534003 | 2021 Feb 23 | 2021 Apr 10 | South America / Brazil / Santa Catarina / Lages |
| EPI_ISL_1534004 | 2021 Feb 23 | 2021 Apr 10 | South America / Brazil / Sergipe / Barra dos Coqueiros |
| EPI_ISL_1534007 | 2021 Feb 26 | 2021 Apr 10 | South America / Brazil / Santa Catarina / Balneario Arroio do Silva |
| EPI_ISL_1534008 | 2021 Feb 26 | 2021 Apr 10 | South America / Brazil / Santa Catarina / Joinville |
| EPI_ISL_1534009 | 2021 Feb 26 | 2021 Apr 10 | South America / Brazil / Santa Catarina / Joinville |
| EPI_ISL_1534010 | 2021 Feb 26 | 2021 Apr 10 | South America / Brazil / Santa Catarina / Joinville |
| EPI_ISL_1534011 | 2021 Mar 11 | 2021 Apr 10 | South America / Brazil / Rio de Janeiro / Niteroi |
| EPI_ISL_1534012 | 2021 Mar 13 | 2021 Apr 10 | South America / Brazil / Rio de Janeiro / Paraiba do Sul |
| EPI_ISL_1534013 | 2021 Mar 15 | 2021 Apr 10 | South America / Brazil / Rio Grande do Sul / Porto Xavier |
| EPI_ISL_1534014 | 2021 Mar 16 | 2021 Apr 10 | South America / Brazil / Rio de Janeiro / Rio de Janeiro |
| EPI_ISL_1534015 | 2021 Mar 22 | 2021 Apr 10 | South America / Brazil / Rio de Janeiro / Rio de Janeiro |
| EPI_ISL_1534016 | 2021 Mar 23 | 2021 Apr 10 | South America / Brazil / Rio de Janeiro / Rio de Janeiro |
| EPI_ISL_1534544 | 2021 Mar 24 | 2021 Apr 11 | South America / Chile / Region Metropolitana de Santiago / La Granja |

| Sample identification | Date collected | Date uploaded | Collection locations |
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| EPI_ISL_1534546 | 2021 Mar 18 | 2021 Apr 11 | South America / Chile / Region Metropolitana de Santiago / Puente Alto |
| EPI_ISL_1534547 | 2021 Mar 17 | 2021 Apr 11 | South America / Chile / Region Metropolitana de Santiago / Puente Alto |
| EPI_ISL_1534555 | 2021 Mar 17 | 2021 Apr 11 | South America / Chile / Region Metropolitana de Santiago / San Jose De Maipo |
| EPI_ISL_1534556 | 2021 Mar 17 | 2021 Apr 11 | South America / Chile / Region Metropolitana de Santiago / San Jose De Maipo |
| EPI_ISL_1534563 | 2021 Mar 12 | 2021 Apr 11 | South America / Chile / Region Metropolitana de Santiago / San Jose De Maipo |
| EPI_ISL_1534567 | 2021 Mar 26 | 2021 Apr 11 | South America / Chile / Region Metropolitana de Santiago / La Granja |
| EPI_ISL_1534570 | 2021 Mar 27 | 2021 Apr 11 | South America / Chile / Region Metropolitana de Santiago / La Pintana |
| EPI_ISL_1534572 | 2021 Mar 27 | 2021 Apr 11 | South America / Chile / Region Metropolitana de Santiago / San Ramon |
| EPI_ISL_1534575 | 2021 Mar 27 | 2021 Apr 11 | South America / Chile / Region Metropolitana de Santiago / San Ramon |
| EPI_ISL_1534578 | 2021 Mar 27 | 2021 Apr 11 | South America / Chile / Region Metropolitana de Santiago / Puente Alto |
| EPI_ISL_1534581 | 2021 Mar 28 | 2021 Apr 11 | South America / Chile / Region Metropolitana de Santiago / La Granja |
| EPI_ISL_1534589 | 2021 Mar 20 | 2021 Apr 11 | South America / Chile / Region Metropolitana de Santiago / La Granja |
| EPI_ISL_1534590 | 2021 Mar 24 | 2021 Apr 11 | South America / Chile / Region Metropolitana de Santiago / La Pintana |
| EPI_ISL_1534593 | 2021 Mar 29 | 2021 Apr 11 | South America / Chile / Region Metropolitana de Santiago / Santiago |
| EPI_ISL_1534596 | 2021 Mar 30 | 2021 Apr 11 | South America / Chile / Region Metropolitana de Santiago / Pudahuel |
| EPI_ISL_1534601 | 2021 Mar 30 | 2021 Apr 11 | South America / Chile / Region Metropolitana de Santiago / Santiago |
| EPI_ISL_1534602 | 2021 Mar 29 | 2021 Apr 11 | South America / Chile / Tarapaca / Iquique |
| EPI_ISL_1534603 | 2021 Mar 30 | 2021 Apr 11 | South America / Chile / Tarapaca / Iquique |
| EPI_ISL_1534604 | 2021 Mar 30 | 2021 Apr 11 | South America / Chile / Tarapaca / Iquique |
| EPI_ISL_1534605 | 2021 Mar 28 | 2021 Apr 11 | South America / Chile / Valparaiso / Valparaiso |
| EPI_ISL_1534606 | 2021 Mar 29 | 2021 Apr 11 | South America / Chile / Valparaiso / Valparaiso |
| EPI_ISL_1540997 | 2021 Mar 14 | 2021 Apr 12 | South America / Chile / Region Metropolitana de Santiago / San Jose De Maipo |
| EPI_ISL_1541006 | 2021 Mar 15 | 2021 Apr 12 | South America / Chile / Region Metropolitana de Santiago / La Granja |
| EPI_ISL_1541007 | 2021 Mar 15 | 2021 Apr 12 | South America / Chile / Region Metropolitana de Santiago / La Granja |
| EPI_ISL_1541015 | 2021 Mar 29 | 2021 Apr 12 | South America / Chile / La Araucania / Temuco |
| EPI_ISL_1583672 | 2021 Mar 2 | 2021 Apr 14 | South America / Brazil / Bahia |
| EPI_ISL_1583673 | 2021 Mar 3 | 2021 Apr 14 | South America / Brazil / Bahia |
| EPI_ISL_1583674 | 2021 Feb 8 | 2021 Apr 14 | South America / Brazil / Bahia |
| EPI_ISL_1583675 | 2021 Mar 2 | 2021 Apr 14 | South America / Brazil / Bahia |
| EPI_ISL_1583676 | 2021 Mar 5 | 2021 Apr 14 | South America / Brazil / Bahia |
| EPI_ISL_1583677 | 2021 Feb 6 | 2021 Apr 14 | South America / Brazil / Bahia |
| EPI_ISL_1583679 | 2021 Mar 4 | 2021 Apr 14 | South America / Brazil / Bahia |
| EPI_ISL_1583680 | 2021 Feb 19 | 2021 Apr 14 | South America / Brazil / Bahia |
| EPI_ISL_1583681 | 2021 Mar 2 | 2021 Apr 14 | South America / Brazil / Bahia |
| EPI_ISL_1583682 | 2021 Feb 8 | 2021 Apr 14 | South America / Brazil / Bahia |
| EPI_ISL_1583683 | 2021 Feb 12 | 2021 Apr 14 | South America / Brazil / Bahia |
| EPI_ISL_1583694 | 2021 Mar 12 | 2021 Apr 14 | South America / Brazil / Bahia |
| EPI_ISL_1583697 | 2021 Feb 23 | 2021 Apr 14 | South America / Brazil / Bahia |
| EPI_ISL_1583700 | 2021 Feb 12 | 2021 Apr 14 | South America / Brazil / Bahia |
| EPI_ISL_1583719 | 2021 Feb 23 | 2021 Apr 14 | South America / Brazil / Bahia |
| EPI_ISL_1583722 | 2021 Feb 23 | 2021 Apr 14 | South America / Brazil / Bahia |
| EPI_ISL_1583725 | 2021 Mar 1 | 2021 Apr 14 | South America / Brazil / Bahia |
| EPI_ISL_1583730 | 2021 Mar 5 | 2021 Apr 14 | South America / Brazil / Bahia |
| EPI_ISL_1583733 | 2021 Feb 26 | 2021 Apr 14 | South America / Brazil / Bahia |
| EPI_ISL_1591098 | 2021 Feb 22 | 2021 Apr 14 | South America / Peru |
| EPI_ISL_1593463 | 2021 Mar 12 | 2021 Apr 15 | South America / French Guiana / Cayenne |
| EPI_ISL_1593464 | 2021 Mar 15 | 2021 Apr 15 | South America / French Guiana / Regina |
| EPI_ISL_1593466 | 2021 Mar 15 | 2021 Apr 15 | South America / French Guiana / Grand Santi |
| EPI_ISL_1593470 | 2021 Mar 19 | 2021 Apr 15 | South America / French Guiana / Cayenne |
| EPI_ISL_1593471 | 2021 Mar 19 | 2021 Apr 15 | South America / French Guiana / Cayenne |
| EPI_ISL_1593980 | 2021 Mar 2 | 2021 Apr 15 | South America / French Guiana / Regina |
| EPI_ISL_1593984 | 2021 Mar 5 | 2021 Apr 15 | South America / French Guiana / Kourou |
| EPI_ISL_1608161 | 2021 Feb 7 | 2021 Apr 15 | South America / Brazil / Bahia / Salvador |
| EPI_ISL_1608162 | 2021 Feb 6 | 2021 Apr 15 | South America / Brazil / Bahia / Salvador |
| EPI_ISL_1608163 | 2021 Feb 10 | 2021 Apr 15 | South America / Brazil / Bahia / Salvador |
| EPI_ISL_1608164 | 2021 Feb 16 | 2021 Apr 15 | South America / Brazil / Bahia / Salvador |
| EPI_ISL_1608165 | 2021 Feb 8 | 2021 Apr 15 | South America / Brazil / Bahia / Salvador |
| EPI_ISL_1608166 | 2021 Feb 17 | 2021 Apr 15 | South America / Brazil / Bahia / Salvador |
| EPI_ISL_1608167 | 2021 Feb 12 | 2021 Apr 15 | South America / Brazil / Bahia / Salvador |
| EPI_ISL_1608168 | 2021 Feb 13 | 2021 Apr 15 | South America / Brazil / Bahia / Salvador |
| EPI_ISL_1608169 | 2021 Feb 20 | 2021 Apr 15 | South America / Brazil / Bahia / Salvador |
| EPI_ISL_1608170 | 2021 Feb 23 | 2021 Apr 15 | South America / Brazil / Bahia / Salvador |
| EPI_ISL_1608171 | 2021 Feb 21 | 2021 Apr 15 | South America / Brazil / Bahia / Salvador |
| EPI_ISL_1625972 | 2021 Mar 12 | 2021 Apr 16 | South America / Brazil / Sao Paulo / Sao Paulo |

| Sample identification | Date collected | Date uploaded | Collection locations |
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| EPI_ISL_1625974 | 2021 Mar 15 | 2021 Apr 16 | South America / Brazil / Sao Paulo / Aracatuba |
| EPI_ISL_1625975 | 2021 Mar 7 | 2021 Apr 16 | South America / Brazil / Sao Paulo / Sumare |
| EPI_ISL_1625976 | 2021 Mar 8 | 2021 Apr 16 | South America / Brazil / Sao Paulo / Divinolandia |
| EPI_ISL_1625978 | 2021 Feb 15 | 2021 Apr 16 | South America / Brazil / Sao Paulo / Rio Claro |
| EPI_ISL_1625984 | 2021 Feb 18 | 2021 Apr 16 | South America / Brazil / Sao Paulo / Araras |
| EPI_ISL_1625986 | 2021 Feb 18 | 2021 Apr 16 | South America / Brazil / Sao Paulo / Rio Claro |
| EPI_ISL_1625987 | 2021 Feb 20 | 2021 Apr 16 | South America / Brazil / Sao Paulo / Rio Claro |
| EPI_ISL_1625988 | 2021 Feb 20 | 2021 Apr 16 | South America / Brazil / Sao Paulo / Rio Claro |
| EPI_ISL_1625989 | 2021 Feb 21 | 2021 Apr 16 | South America / Brazil / Sao Paulo / Limeira |
| EPI_ISL_1625990 | 2021 Feb 21 | 2021 Apr 16 | South America / Brazil / Sao Paulo / Leme |
| EPI_ISL_1625991 | 2021 Feb 23 | 2021 Apr 16 | South America / Brazil / Sao Paulo / Aguas de Sao Pedro |
| EPI_ISL_1625992 | 2021 Feb 24 | 2021 Apr 16 | South America / Brazil / Sao Paulo / Limeira |
| EPI_ISL_1625993 | 2021 Feb 26 | 2021 Apr 16 | South America / Brazil / Sao Paulo / Leme |
| EPI_ISL_1625994 | 2021 Feb 26 | 2021 Apr 16 | South America / Brazil / Sao Paulo / Leme |
| EPI_ISL_1625995 | 2021 Feb 26 | 2021 Apr 16 | South America / Brazil / Sao Paulo / Rio Claro |
| EPI_ISL_1625997 | 2021 Feb 25 | 2021 Apr 16 | South America / Brazil / Sao Paulo / Rio Claro |
| EPI_ISL_1625998 | 2021 Feb 25 | 2021 Apr 16 | South America / Brazil / Sao Paulo / Rio Claro |
| EPI_ISL_1625999 | 2021 Feb 26 | 2021 Apr 16 | South America / Brazil / Sao Paulo / Rio Claro |
| EPI_ISL_1626001 | 2021 Feb 28 | 2021 Apr 16 | South America / Brazil / Sao Paulo / Rio Claro |
| EPI_ISL_1626002 | 2021 Feb 28 | 2021 Apr 16 | South America / Brazil / Sao Paulo / Rio Claro |
| EPI_ISL_1626003 | 2021 Feb 28 | 2021 Apr 16 | South America / Brazil / Sao Paulo / Rio Claro |
| EPI_ISL_1626004 | 2021 Feb 28 | 2021 Apr 16 | South America / Brazil / Sao Paulo / Rio Claro |
| EPI_ISL_1626006 | 2021 Feb 27 | 2021 Apr 16 | South America / Brazil / Sao Paulo / Rio Claro |
| EPI_ISL_1626606 | 2021 Feb 27 | 2021 Apr 16 | South America / Brazil / Sao Paulo / Rio Claro |
| EPI_ISL_1626613 | 2021 Mar 26 | 2021 Apr 17 | South America / Colombia / Bogota |
| EPI_ISL_1626615 | 2021 Mar 24 | 2021 Apr 17 | South America / Colombia / Bogota |
| EPI_ISL_1626616 | 2021 Mar 29 | 2021 Apr 17 | South America / Colombia / Bogota |
| EPI_ISL_1626618 | 2021 Mar 25 | 2021 Apr 17 | South America / Colombia / Bogota |
| EPI_ISL_1628344 | 2021 Mar 14 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_1628347 | 2021 Mar 13 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Registro |
| EPI_ISL_1628348 | 2021 Mar 12 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Registro |
| EPI_ISL_1628349 | 2021 Mar 13 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Registro |
| EPI_ISL_1628350 | 2021 Mar 13 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Jacupiranga |
| EPI_ISL_1628351 | 2021 Mar 13 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Registro |
| EPI_ISL_1628352 | 2021 Mar 13 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Registro |
| EPI_ISL_1628353 | 2021 Mar 13 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Registro |
| EPI_ISL_1628354 | 2021 Mar 14 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Jacupiranga |
| EPI_ISL_1628355 | 2021 Mar 17 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Cajati |
| EPI_ISL_1628356 | 2021 Mar 17 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Cajati |
| EPI_ISL_1628357 | 2021 Mar 17 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Cajati |
| EPI_ISL_1628358 | 2021 Mar 17 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Cajati |
| EPI_ISL_1628359 | 2021 Mar 15 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Sao Joao da Boa Vista |
| EPI_ISL_1628360 | 2021 Mar 17 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Pariqueira Acu |
| EPI_ISL_1628361 | 2021 Mar 17 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Pedro de Toledo |
| EPI_ISL_1628362 | 2021 Mar 17 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Pariqueira Acu |
| EPI_ISL_1628363 | 2021 Mar 11 | 2021 Apr 17 | South America / Brazil / Goias / Aparecida de Goiania |
| EPI_ISL_1628364 | 2021 Mar 16 | 2021 Apr 17 | South America / Brazil / Goias / Goiania |
| EPI_ISL_1628365 | 2021 Mar 17 | 2021 Apr 17 | South America / Brazil / Goias / Goiania |
| EPI_ISL_1628366 | 2021 Mar 18 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Patrocinio Paulista |
| EPI_ISL_1628367 | 2021 Mar 18 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Guaira |
| EPI_ISL_1628368 | 2021 Mar 16 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Pradopolis |
| EPI_ISL_1628369 | 2021 Mar 10 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Roberiao Preto |
| EPI_ISL_1628370 | 2021 Mar 9 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Taguaritinga |
| EPI_ISL_1628372 | 2021 Mar 15 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Morro Agudo |
| EPI_ISL_1628373 | 2021 Mar 22 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Bebedouro |
| EPI_ISL_1628374 | 2021 Mar 5 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Cravinhos |
| EPI_ISL_1628375 | 2021 Mar 18 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Guariba |
| EPI_ISL_1628376 | 2021 Mar 19 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Guariba |
| EPI_ISL_1628377 | 2021 Mar 9 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Ibitinga |
| EPI_ISL_1628378 | 2021 Mar 21 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Jardinopolis |
| EPI_ISL_1628379 | 2021 Mar 8 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Roberiao Preto |
| EPI_ISL_1628380 | 2021 Mar 19 | 2021 Apr 17 | South America / Brazil / Sao Paulo / Ibitinga |
| EPI_ISL_1633373 | 2021 Mar 31 | 2021 Apr 19 | South America / Chile / Los Rios / Lago Ranco |
| EPI_ISL_1633473 | 2021 Mar 13 | 2021 Apr 19 | South America / Chile / Region Metropolitana de Santiago / La Pintana |
| EPI_ISL_1633475 | 2021 Mar 21 | 2021 Apr 19 | South America / Chile / Region Metropolitana de Santiago / San Jose De Maipo |
| EPI_ISL_1633478 | 2021 Mar 28 | 2021 Apr 19 | South America / Chile / Maule / Curico |
| EPI_ISL_1633494 | 2021 Mar 30 | 2021 Apr 19 | South America / Chile / Region Metropolitana de Santiago / La Granja |

| Sample identification | Date collected | Date uploaded | Collection locations |
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| EPI_ISL_833136 | 2020 Dec 29 | 2021 Jan 17 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_833137 | 2020 Dec 4 | 2021 Jan 17 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_833138 | 2020 Dec 21 | 2021 Jan 17 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_833139 | 2020 Dec 22 | 2021 Jan 17 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_833140 | 2020 Dec 23 | 2021 Jan 17 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_833167 | 2020 Dec 16 | 2021 Jan 17 | South America / Brazil / Amazonas |
| EPI_ISL_833169 | 2020 Dec 23 | 2021 Jan 17 | South America / Brazil / Amazonas |
| EPI_ISL_833170 | 2020 Dec 23 | 2021 Jan 17 | South America / Brazil / Amazonas |
| EPI_ISL_833171 | 2020 Dec 17 | 2021 Jan 17 | South America / Brazil / Amazonas |
| EPI_ISL_833172 | 2020 Dec 17 | 2021 Jan 17 | South America / Brazil / Amazonas |
| EPI_ISL_833173 | 2020 Dec 18 | 2021 Jan 17 | South America / Brazil / Amazonas |
| EPI_ISL_833174 | 2020 Dec 22 | 2021 Jan 17 | South America / Brazil / Amazonas |
| EPI_ISL_872191 | 2021 Jan 15 | 2021 Jan 26 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_872192 | 2021 Jan 18 | 2021 Jan 26 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_875688 | 2021 Jan 4 | 2021 Jan 26 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_875689 | 2021 Jan 15 | 2021 Jan 26 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_904120 | 2021 Jan 10 | 2021 Jan 30 | South America / Brazil / Para |
| EPI_ISL_904121 | 2021 Jan 8 | 2021 Jan 30 | South America / Brazil / Para |
| EPI_ISL_906068 | 2021 Jan 15 | 2021 Jan 31 | South America / Brazil / Sao Paulo / Campinas |
| EPI_ISL_906069 | 2021 Jan 15 | 2021 Jan 31 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_906071 | 2021 Jan 19 | 2021 Jan 31 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_906075 | 2021 Jan 19 | 2021 Jan 31 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_906076 | 2021 Jan 19 | 2021 Jan 31 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_906077 | 2021 Jan 19 | 2021 Jan 31 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_906080 | 2021 Jan 22 | 2021 Jan 31 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_906081 | 2021 Jan 22 | 2021 Jan 31 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_918499 | 2020 Dec 21 | 2021 Feb 3 | South America / Brazil / Amazonas |
| EPI_ISL_918500 | 2020 Dec 28 | 2021 Feb 3 | South America / Brazil / Amazonas |
| EPI_ISL_918501 | 2020 Dec 28 | 2021 Feb 3 | South America / Brazil / Amazonas |
| EPI_ISL_918502 | 2020 Dec 29 | 2021 Feb 3 | South America / Brazil / Amazonas |
| EPI_ISL_918503 | 2020 Dec 28 | 2021 Feb 3 | South America / Brazil / Amazonas |
| EPI_ISL_918504 | 2020 Dec 21 | 2021 Feb 3 | South America / Brazil / Amazonas |
| EPI_ISL_918505 | 2020 Dec 30 | 2021 Feb 3 | South America / Brazil / Amazonas |
| EPI_ISL_918506 | 2020 Dec 30 | 2021 Feb 3 | South America / Brazil / Amazonas |
| EPI_ISL_918507 | 2021 Jan 5 | 2021 Feb 3 | South America / Brazil / Amazonas |
| EPI_ISL_918508 | 2021 Jan 5 | 2021 Feb 3 | South America / Brazil / Amazonas |
| EPI_ISL_918509 | 2021 Jan 6 | 2021 Feb 3 | South America / Brazil / Amazonas |
| EPI_ISL_918510 | 2021 Jan 7 | 2021 Feb 3 | South America / Brazil / Amazonas |
| EPI_ISL_918511 | 2020 Dec 30 | 2021 Feb 3 | South America / Brazil / Amazonas |
| EPI_ISL_940614 | 2021 Jan 19 | 2021 Feb 5 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_940615 | 2021 Jan 19 | 2021 Feb 5 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_940616 | 2021 Jan 19 | 2021 Feb 5 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_940617 | 2021 Jan 19 | 2021 Feb 5 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_940618 | 2021 Jan 19 | 2021 Feb 5 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_940619 | 2021 Jan 15 | 2021 Feb 5 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_940620 | 2021 Jan 14 | 2021 Feb 5 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_940621 | 2021 Jan 14 | 2021 Feb 5 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_940622 | 2021 Jan 15 | 2021 Feb 5 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_940623 | 2021 Jan 8 | 2021 Feb 5 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_940624 | 2021 Jan 15 | 2021 Feb 5 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_940625 | 2021 Jan 19 | 2021 Feb 5 | South America / Brazil / Sao Paulo / Sao Paulo |
| EPI_ISL_940626 | 2021 Jan 21 | 2021 Feb 5 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_940627 | 2021 Jan 22 | 2021 Feb 5 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_940630 | 2021 Jan 25 | 2021 Feb 5 | South America / Brazil / Roraima |
| EPI_ISL_943570 | 2021 Jan 28 | 2021 Feb 6 | South America / Peru / Lima |
| EPI_ISL_943967 | 2021 Jan 25 | 2021 Feb 7 | South America / Brazil / Roraima |
| EPI_ISL_943968 | 2021 Jan 25 | 2021 Feb 7 | South America / Brazil / Roraima |
| EPI_ISL_943969 | 2021 Jan 25 | 2021 Feb 7 | South America / Brazil / Roraima |
| EPI_ISL_943970 | 2021 Jan 25 | 2021 Feb 7 | South America / Brazil / Roraima |
| EPI_ISL_943971 | 2021 Jan 25 | 2021 Feb 7 | South America / Brazil / Roraima |
| EPI_ISL_943987 | 2021 Jan 20 | 2021 Feb 7 | South America / Brazil / Tocantins / Paraiso do Tocantins |
| EPI_ISL_943990 | 2021 Jan 19 | 2021 Feb 7 | South America / Brazil / Amazonas / Manaus |
| EPI_ISL_981383 | 2021 Jan 20 | 2021 Feb 12 | South America / Brazil / Sao Paulo / Jau |
| EPI_ISL_981385 | 2021 Jan 25 | 2021 Feb 12 | South America / Brazil / Sao Paulo / Jau |
| EPI_ISL_981387 | 2021 Jan 18 | 2021 Feb 12 | South America / Brazil / Sao Paulo / Jau |
| EPI_ISL_983865 | 2021 Feb 1 | 2021 Feb 12 | South America / Brazil / Rio Grande do Sul / Gramado |

| Sample identification | Date collected | Date uploaded | Collection locations |
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| EPI_ISL_984619 | 2021 Feb 3 | 2021 Feb 13 | South America / Brazil / Rio Grande do Sul |
| EPI_ISL_985303 | 2021 Jan 19 | 2021 Feb 15 | South America / Brazil / Goias / Aparecida de Goiania |
| EPI_ISL_985304 | 2021 Jan 19 | 2021 Feb 15 | South America / Brazil / Goias / Aparecida de Goiania |
| EPI_ISL_985305 | 2021 Jan 19 | 2021 Feb 15 | South America / Brazil / Goias / Aparecida de Goiania |
| EPI_ISL_985306 | 2021 Jan 19 | 2021 Feb 15 | South America / Brazil / Goias / Aparecida de Goiania |
| EPI_ISL_985307 | 2021 Jan 19 | 2021 Feb 15 | South America / Brazil / Goias / Aparecida de Goiania |
| EPI_ISL_985308 | 2021 Jan 19 | 2021 Feb 15 | South America / Brazil / Goias / Aparecida de Goiania |
| EPI_ISL_985309 | 2021 Jan 19 | 2021 Feb 15 | South America / Brazil / Goias / Aparecida de Goiania |
| EPI_ISL_985310 | 2021 Jan 19 | 2021 Feb 15 | South America / Brazil / Goias / Aparecida de Goiania |
| EPI_ISL_985311 | 2021 Jan 19 | 2021 Feb 15 | South America / Brazil / Goias / Aparecida de Goiania |
| EPI_ISL_985312 | 2021 Jan 19 | 2021 Feb 15 | South America / Brazil / Goias / Aparecida de Goiania |
| EPI_ISL_985313 | 2021 Jan 19 | 2021 Feb 15 | South America / Brazil / Goias / Aparecida de Goiania |
| EPI_ISL_985314 | 2021 Jan 19 | 2021 Feb 15 | South America / Brazil / Goias / Aparecida de Goiania |
| EPI_ISL_985315 | 2021 Jan 19 | 2021 Feb 15 | South America / Brazil / Goias / Aparecida de Goiania |
| EPI_ISL_985316 | 2021 Jan 19 | 2021 Feb 15 | South America / Brazil / Goias / Aparecida de Goiania |
| EPI_ISL_985317 | 2021 Jan 19 | 2021 Feb 15 | South America / Brazil / Goias / Aparecida de Goiania |
| EPI_ISL_985318 | 2021 Jan 8 | 2021 Feb 15 | South America / Brazil / Santa Catarina / Florianopolis |
| EPI_ISL_985319 | 2021 Jan 12 | 2021 Feb 15 | South America / Brazil / Santa Catarina / Florianopolis |

*SARS-CoV-2, severe acute respiratory syndrome coronavirus 2.

Appendix 1 Table 3. Summary of 6 clades of severe acute respiratory syndrome coronavirus 2 found by using variant of concern PCR genomic surveillance, Uruguay*

| Clade | No. isolates | Departments | No. sequences per site | T _{MRCA} , date 2021 (95% CI) | No. syn sites |
|--------|--------------|-------------|------------------------|--|---------------|
| UY-I | 24 | Artigas | 2 | 15 Feb (31 Jan–27 Feb) | 1† |
| | | Canelones | 1 | | |
| | | Montevideo | 5 | | |
| | | Rio Negro | 11 | | |
| | | Salto | 2 | | |
| | | San Jose | 1 | | |
| | | Soriano | 2 | | |
| UY-II | 12 | Canelones | 2 | 17 Feb (23 Jan–4 Mar) | 4 |
| | | Colonia | 1 | | |
| | | Montevideo | 2 | | |
| | | Rio Negro | 5 | | |
| | | San Jose | 2 | | |
| UY-III | 7 | Canelones | 4 | 1 Mar (20 Feb–5 Mar) | 6† |
| | | Montevideo | 3 | | |
| UY-IV | 4 | Canelones | 1 | 28 Feb (19 Feb–5 Mar) | 1 |
| | | Soriano | 1 | | |
| | | San Jose | 2 | | |
| UY-V | 3 | Rocha | 3 | 21 Feb (Feb 12–23) | 2† |
| UY-VI | 3 | Rocha | 3 | 15 Feb (Feb 1–22) | 2† |

*syn, synapomorphic sites defining each clade; T_{MRCA}, time of most common recent ancestor.

†Amino acid replacement is considered radical. See Appendix Table 4 for additional details on the clades and synapomorphies.

Appendix 1 Table 4. Introductions of SARS-CoV-2 P.1 lineage and synapomorphic sites defining each clade, Uruguay*

| Clade | No. isolates | Department (no. samples) | T _{MRCA} , date 2021 (95% CI)† | Genomic region | Nucleotide | Amino acid | Amino acid replacement |
|---------|--------------|---|---|---|--|--|---|
| UY-I | 24 | AR (2), CA (1), MO (5), RN (11), SA (2), SJ (1), SO (2) | 15 Feb (31 Jan–27 Feb) | ORF1a (NSP3) | G8102T | V1795F | radical |
| UY-II | 12 | CA (2), CO (1), MO (2), RN (5), SJ (2) | 17 Feb (23 Jan–4 Mar) | ORF1a (NSP3) | A3957G | K413R | conservative |
| | | | | M ORF8 3'UTR | T26597C T27986C G29760A | G25G Y31Y – | – – – |
| UY-III | 7 | CA (4), MO (3) | 01 Mar (20 Feb–5 Mar) | ORF1a (NSP3) ORF1a (NSP4) ORF1a (NSP5) ORF1a (NSP6) ORF3a Intergenic | C5310T G8849T C10507T C11074T T26171A C27389A | T864I V99L N151N F34F M260K – | radical conservative – – radical – |
| UY-IV | 4 | CA, SJ (2), SO (1) | 28 Feb (19 Feb–5 Mar) | ORF3a | A25450G | I20V | conservative |
| UY-V‡ | 3 | RO (3) | 21 Feb (12–23 Feb) | ORF1b (NSP13) Spike | G17797A G22471T | V521I L303F | conservative radical |
| UY-VI | 3 | RO (3) | 15 Feb (1–22 Feb) | ORF1a (NSP5) ORF1a (NSP6) | A10323G C11001T | K90R T10I | conservative radical |
| UY-VII | 1 | AR (1) | – | – | – | – | – |
| UY-VIII | 1 | AR (1) | – | – | – | – | – |
| UY-VIII | 1 | MO (1) | – | – | – | – | – |
| UY-X | 1 | RN (1) | – | – | – | – | – |
| UY-XI | 1 | SA (1) | – | – | – | – | – |
| UY-XII | 1 | TA (1) | – | – | – | – | – |

*We provide a description of the synapomorphies defining each clade that had ≥ 3 samples. AR, Artigas; CA, Canelones; COVID-19, Coonia; MO, Montevideo; NSP, nonstructural protein; ORF, open reading frame; RN, Rio Negro; RO, Rocha; SA, Salto; SJ, San José; SO, Soriano; TA, Tacuarembó; T_{MRCA}, time of most recent common ancestor; SARS-CoV-2, severe acute respiratory syndrome coronavirus 2; –, not applicable.

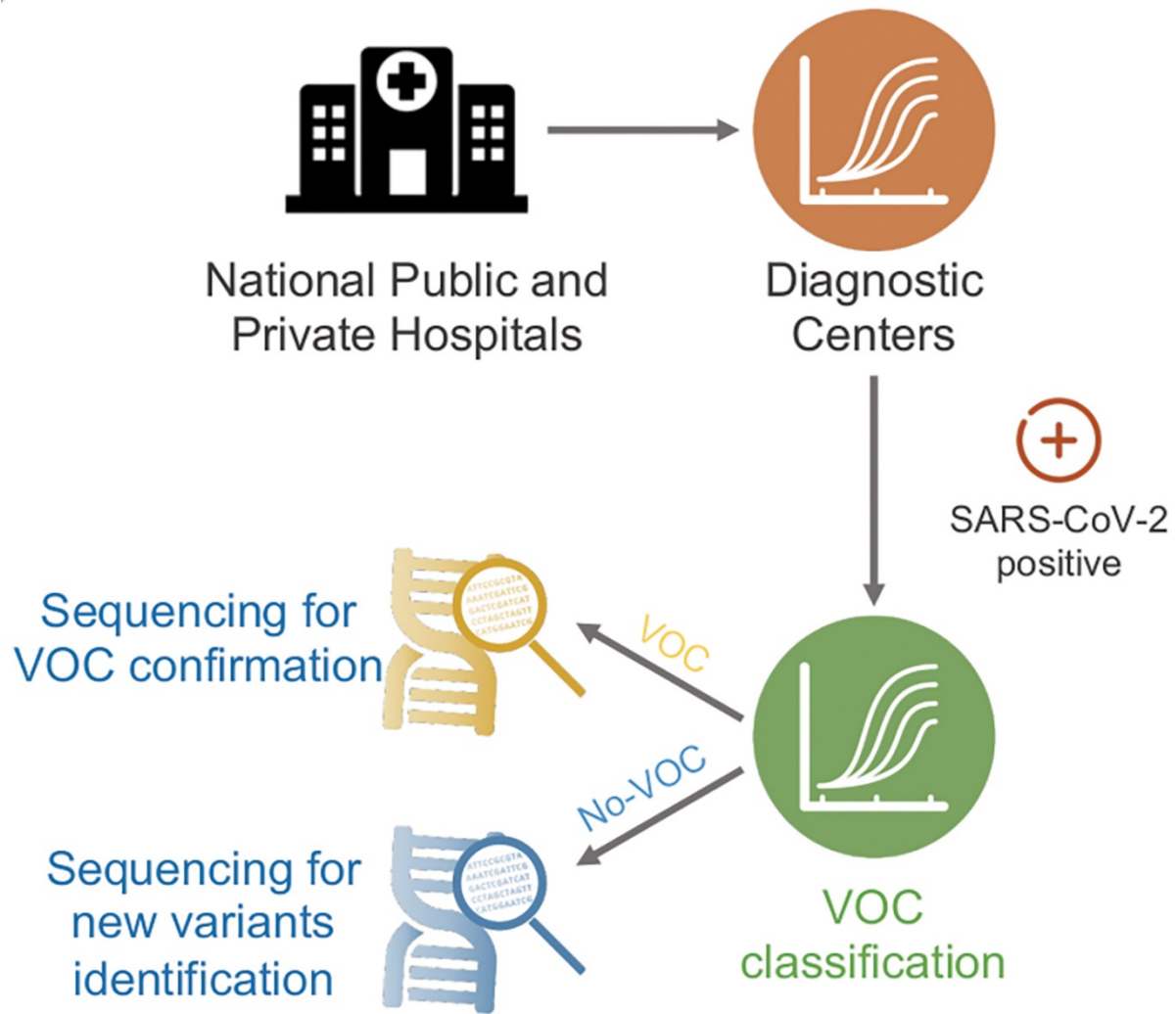
†T_{MRCA} was estimated by using BEAST (27).

‡Clade UY-V is defined by two synapomorphies, 1 being the nonsynonymous S:L303F change in the spike protein. This change has been reported before, in 41 sequences from Europe and the United States, mainly in B.1.1.7 sequences, and involves a radical replacement regarding amino acid volume and aromaticity. Other radical changes we described have not been reported in South America before, except for NSP3:T864I, a radical replacement in polarity, previously found in Brazil and Chile; and NSP3:V1795F a radical replacement in volume and aromaticity previously found in Brazil.

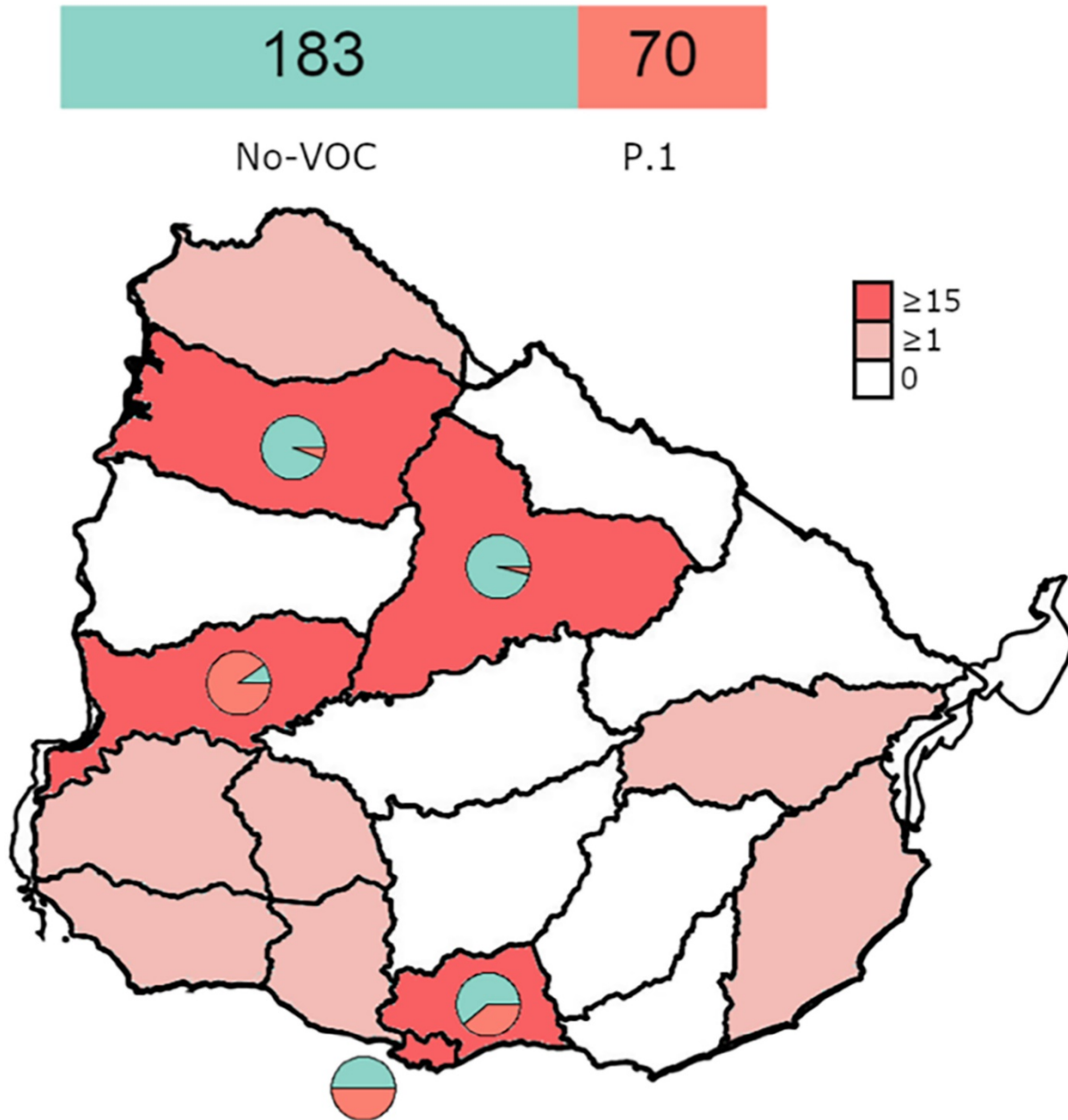
Appendix 1 Table 5. Primers and probes designed for ORF1ab drop-out PCR for SARS-CoV-2 variants of concern, Uruguay*

| Name | Sequence |
|----------------------|--|
| ORF1a_11247–11267_Fw | TGCGTATTATGACATGGTTGG |
| ORF1a_11369–11388_Rv | ACTCTCCTAGCACCATCATC |
| ORF1a_11272–11300_Pb | /5Cy5/GGTTGATAC/TAO/TAGTTTGTCTGGTTTAAAGC/3IAbRQSp/ |
| S_Fw | TCAACTCAGGACTTGTCTTACCT |
| S_Rv | TGGTAGGACAGGGTTATCAAAC |
| S_Pb | /5HEX/TTCCATGCT/ZEN/ATACATGTCTCTGGGA/3IABkFQ/ |

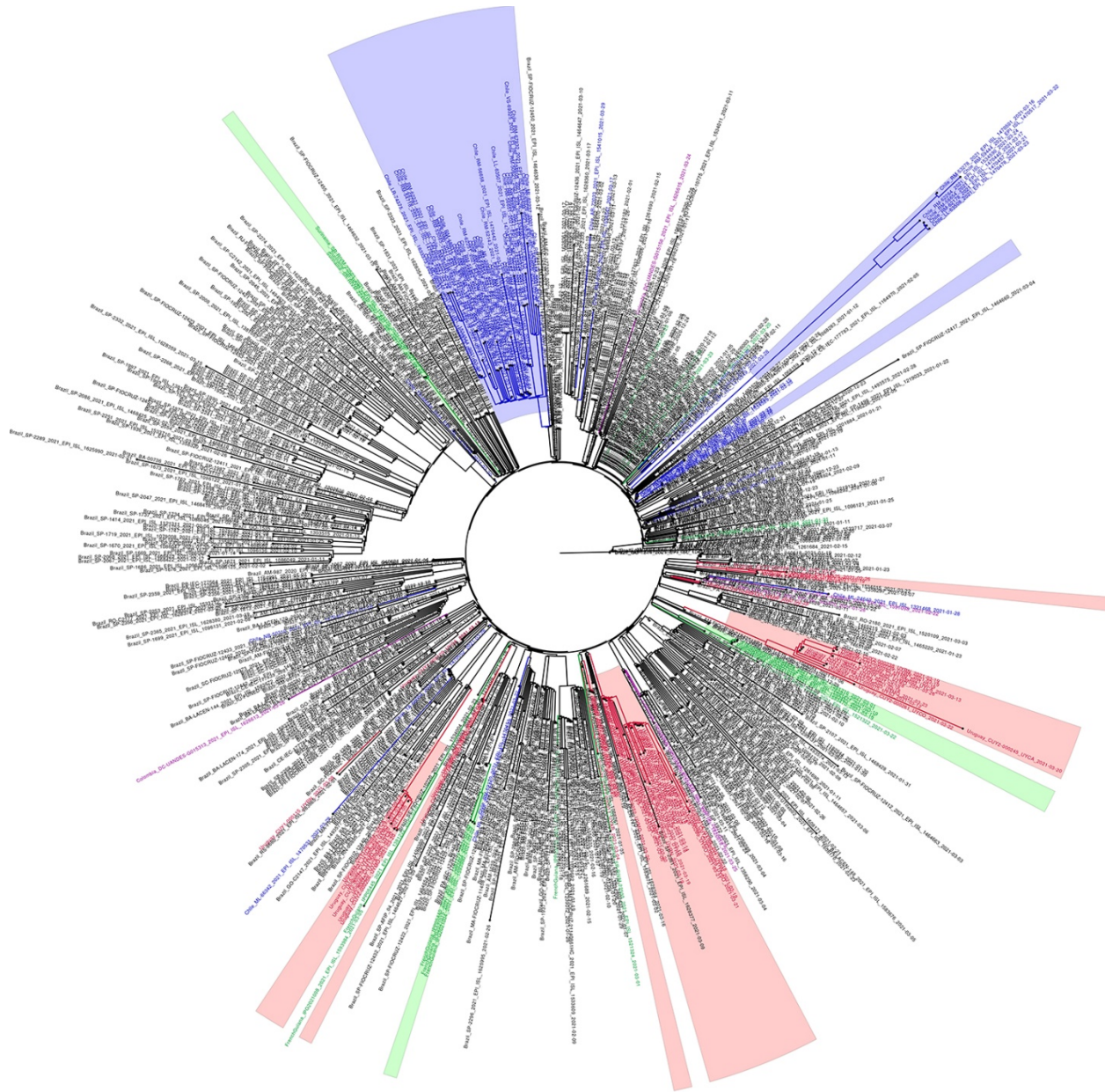
*ORF, open reading frame; SARS-CoV-2, severe acute respiratory syndrome coronavirus 2.



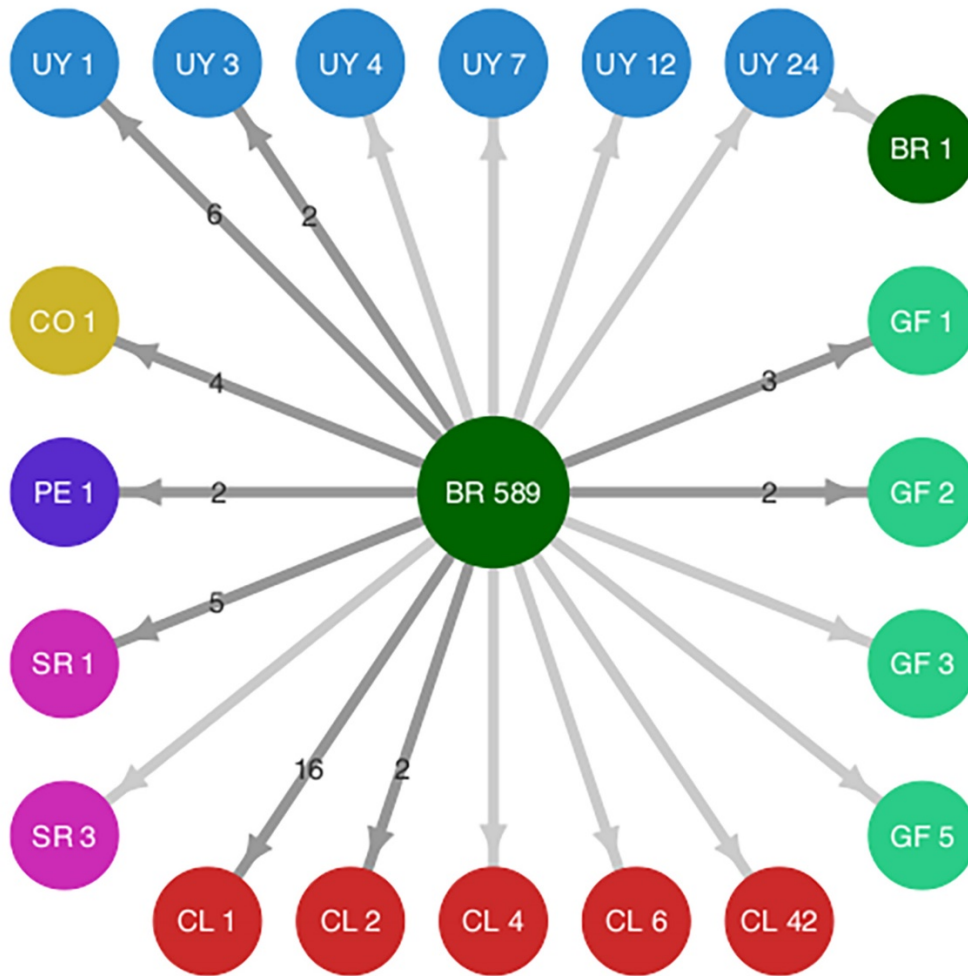
Appendix 1 Figure 1. Interinstitutional working group workflow for identifying SARS-CoV-2 variants of concern (VOCs), Uruguay. Diagnostic centers performed standard PCR for identification of SARS-CoV-2–positive samples, which are further evaluated by a drop-out PCR assay to determine known VOCs. A subset of samples classified as VOC and no-VOC by drop-out PCR then are sequenced to confirm known VOCs and detect new potential variants. SARS-CoV-2, severe acute respiratory syndrome coronavirus 2.



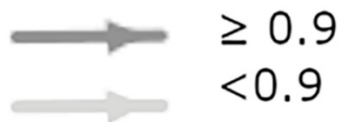
Appendix 1 Figure 2. Barplot showing proportions of SARS-CoV-2 variant P.1 and no variants of concern (no-VOCs), Uruguay. Total numbers of samples in each category are shown. Shading in map shows location in which P.1 was detected; dark red indicates ≥ 15 P.1-positive samples; light red shading indicates 1–14 P.1-positive samples. Pie charts indicate proportions of VOC and no-VOCs in departments with ≥ 15 samples. SARS-CoV-2, severe acute respiratory syndrome coronavirus 2.



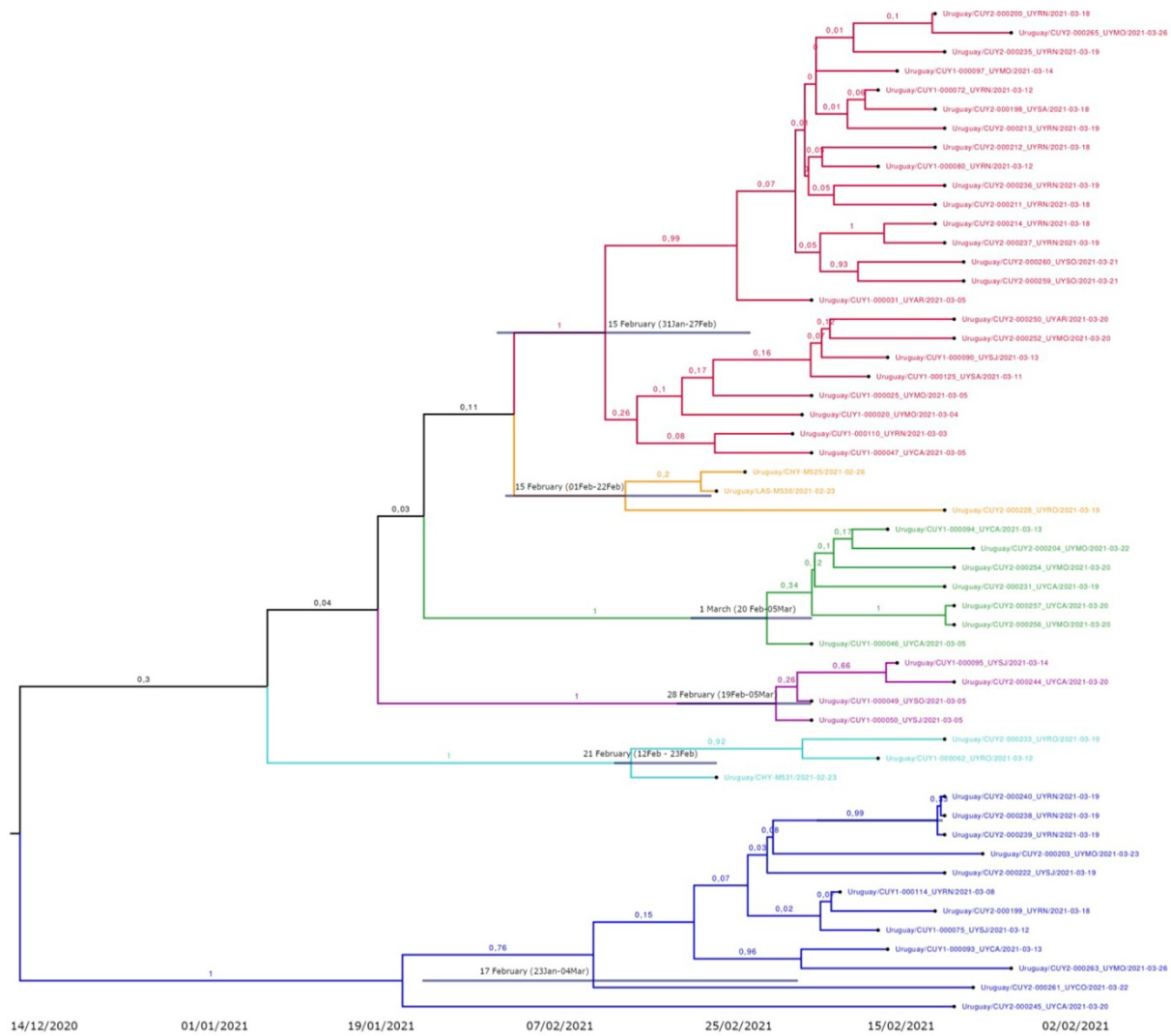
Appendix 1 Figure 3. Maximum-likelihood phylogenetic tree of 59 SARS-CoV-2 P.1 whole genome sequences from Uruguay and 691 from South America. The tree was rooted with the oldest P.1 sequence (GISAID accession no. EPI_ISL_833137). Red text indicates sequences from Uruguay. Black text indicates sequences from Brazil. Blue text indicates sequences and clades from Chile. Green text indicates sequences and clades from French Guiana and Suriname. Violet text indicates sequences from Colombia and Peru. Among P.1 sequences, 6 were singletons, but 53 sequences gather in 6 clades of 3–24 sequences (red shading). SARS-CoV-2, severe acute respiratory syndrome coronavirus 2.



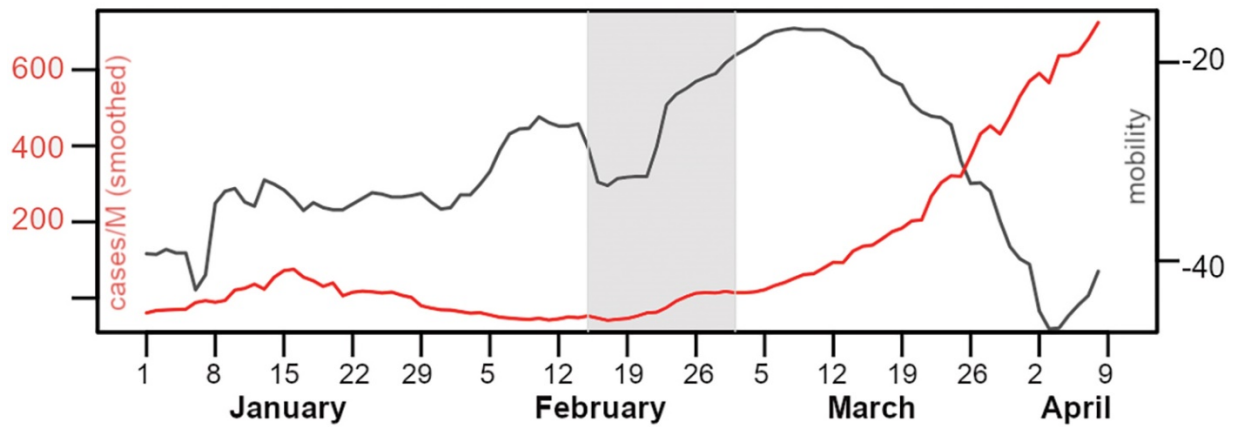
Marginal probabilities:



Appendix 1 Figure 4. Schematic representation of migration events for SARS-CoV-2 P.1 variant of concern (VOC), Uruguay. Each node in the network is identified by location and number of sequences within different phylogenetic subclusters. Arrows indicate migration events deduced from location state changes across the tree. Marginal probabilities are represented by different shades of gray arrows and the numbers quantify the migration events connecting respective locations; no number represents a single event. Nodes are colored according to their location. BR, Brazil; CL, Chile; COVID-19, Colombia; GF, French Guayana; PE, Peru; SARS-CoV-2, severe acute respiratory syndrome coronavirus 2; SR, Surinam; UY, Uruguay.



Appendix 1 Figure 5. Temporal dissemination of SARS-CoV-2 clades I–VI, Uruguay (UY). Six clades from Uruguay are inferred on the time-scaled Bayesian phylogeographic maximum clade credibility tree. Time of most common recent ancestor and 95% CIs are shown at ancestral nodes. Red indicates UY-I; blue indicates UY-II; green indicates UY-III; violet indicates UY-IV; aquamarine indicates UY-V; and yellow indicates UY-VI.



Appendix 1 Figure 6. Mobility index and number of SARS-CoV-2 cases per million persons, Uruguay. Black indicates mobility index; red indicates number of cases per million persons daily. We used methods from Report 11 of the Uruguayan Interdisciplinary Group for COVID-19 Data Analysis (GUIAD-COVID-19)-Feb 2021 (<https://hdl.handle.net/20.500.12008/27166>) to calculate mobility index. The time ranges from January 1–April 9, 2021. Gray shading indicates the estimated period in which P.1 most likely was introduced to the country (\approx February 15, 2021).