**Severe acute respiratory syndrome coronavirus 2 isolate SARS-CoV-2/human/PRI/PR-UPRRP-5813/2022 ORF1ab polyprotein (ORF1ab), ORF1a polyprotein (ORF1ab), surface glycoprotein (S), ORF3a protein (ORF3a), envelope protein (E), membrane glycoprotein (M), ORF6 prot...**

GenBank: ON928719.1

[FASTA](https://www.ncbi.nlm.nih.gov/nuccore/ON928719.1?report=fasta) [Graphics](https://www.ncbi.nlm.nih.gov/nuccore/ON928719.1?report=graph)

LOCUS ON928719 29752 bp RNA linear VRL 06-JUL-2022

DEFINITION Severe acute respiratory syndrome coronavirus 2 isolate

SARS-CoV-2/human/PRI/PR-UPRRP-5813/2022 ORF1ab polyprotein

(ORF1ab), ORF1a polyprotein (ORF1ab), surface glycoprotein (S),

ORF3a protein (ORF3a), envelope protein (E), membrane glycoprotein

(M), ORF6 protein (ORF6), and ORF7a protein (ORF7a) genes, complete

cds; ORF7b gene, complete sequence; and ORF8 protein (ORF8),

nucleocapsid phosphoprotein (N), and ORF10 protein (ORF10) genes,

complete cds.

ACCESSION ON928719

VERSION ON928719.1

KEYWORDS .

SOURCE Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)

ORGANISM [Severe acute respiratory syndrome coronavirus 2](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=2697049)

Viruses; Riboviria; Orthornavirae; Pisuviricota; Pisoniviricetes;

Nidovirales; Cornidovirineae; Coronaviridae; Orthocoronavirinae;

Betacoronavirus; Sarbecovirus.

REFERENCE 1 (bases 1 to 29752)

AUTHORS Van Belleghem,S., Papa,R., Planas,S., Ortiz,Y., Zenon,C., Cora

Huertas,L., Candelaria Velez,I., Cruz,M., Rodriguez Orengo,J.,

Godoy,F., Carlos Velez,J. and Sariol,C.

TITLE Genomic surveillance of SARS-CoV-2 in Puerto Rico

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 29752)

AUTHORS Van Belleghem,S., Papa,R., Planas,S., Ortiz,Y., Zenon,C., Cora

Huertas,L., Candelaria Velez,I., Cruz,M., Rodriguez Orengo,J.,

Godoy,F., Carlos Velez,J. and Sariol,C.

TITLE Direct Submission

JOURNAL Submitted (05-JUL-2022) Biology, University of Puerto RIco, Ave

Universidad, San Juan 00931, Puerto Rico

COMMENT ##Assembly-Data-START##

Assembly Method :: DRAGEN Genome Pipeline - Illumina v.

December-2022

Sequencing Technology :: Illumina

##Assembly-Data-END##

FEATURES Location/Qualifiers

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/gene="ORF1ab"

/product="leader protein"

[mat\_peptide](https://www.ncbi.nlm.nih.gov/protein/UTB50725.1?from=181&to=818) 752..2665

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[mat\_peptide](https://www.ncbi.nlm.nih.gov/protein/UTB50725.1?from=3939&to=4136) 12026..12619

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[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/ON928719.1?from=13410&to=13437) 13410..13437

/gene="ORF1ab"

/note="Coronavirus frameshifting stimulation element

stem-loop 1"

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/ON928719.1?from=13422&to=13476) 13422..13476

/gene="ORF1ab"

/note="Coronavirus frameshifting stimulation element

stem-loop 2"

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/gene="S"

[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON928719.1?from=21497&to=25309) 21497..25309

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[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON928719.1?from=25318&to=26145) 25318..26145

/gene="ORF3a"

/codon\_start=1

/product="ORF3a protein"

/protein\_id="[UTB50727.1](https://www.ncbi.nlm.nih.gov/protein/2264333299)"

/translation="MDLFMRIFTIGTVTLKQGEIKDATPSDFVRATATIPIQASLPFG

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[gene](https://www.ncbi.nlm.nih.gov/nuccore/ON928719.1?from=26170&to=26397) 26170..26397

/gene="E"

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/gene="E"

/codon\_start=1

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[gene](https://www.ncbi.nlm.nih.gov/nuccore/ON928719.1?from=26448&to=27116) 26448..27116

/gene="M"

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/protein\_id="[UTB50729.1](https://www.ncbi.nlm.nih.gov/protein/2264333301)"

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LLVQ"

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/gene="ORF6"

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/gene="ORF6"

/codon\_start=1

/product="ORF6 protein"

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/translation="MFHLVDFQVTIAEILLIIMRTFKVSIWNLDYIINLIIKNLSKSL

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[gene](https://www.ncbi.nlm.nih.gov/nuccore/ON928719.1?from=27319&to=27684) 27319..27684

/gene="ORF7a"

[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON928719.1?from=27319&to=27684) 27319..27684

/gene="ORF7a"

/codon\_start=1

/product="ORF7a protein"

/protein\_id="[UTB50731.1](https://www.ncbi.nlm.nih.gov/protein/2264333303)"

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[gene](https://www.ncbi.nlm.nih.gov/nuccore/ON928719.1?from=27681&to=27812) 27681..27812

/gene="ORF7b"

[misc\_feature](https://www.ncbi.nlm.nih.gov/nuccore/ON928719.1?from=27681&to=27812) 27681..27812

/gene="ORF7b"

/note="similar to ORF7b"

[gene](https://www.ncbi.nlm.nih.gov/nuccore/ON928719.1?from=27819&to=28184) 27819..28184

/gene="ORF8"

[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON928719.1?from=27819&to=28184) 27819..28184

/gene="ORF8"

/codon\_start=1

/product="ORF8 protein"

/protein\_id="[UTB50732.1](https://www.ncbi.nlm.nih.gov/protein/2264333304)"

/translation="MKFLVXLXIITTXAAFHQECXLQSCTQHQPYVVDDPCPIHFYSK

WYIRVGARKSAPLIELCVDEAGSKSPIQYIDIGNYTVSCLPFTINCQEPKLGSLVVRC

SFYEDFLEYHDVRVVLDFI"

[gene](https://www.ncbi.nlm.nih.gov/nuccore/ON928719.1?from=28199&to=29449) 28199..29449

/gene="N"

[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON928719.1?from=28199&to=29449) 28199..29449

/gene="N"

/codon\_start=1

/product="nucleocapsid phosphoprotein"

/protein\_id="[UTB50733.1](https://www.ncbi.nlm.nih.gov/protein/2264333305)"

/translation="MSDNGPQNQRNALRITFGGPSDSTGSNQNGGARSKQRRPQGLPN

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GTTLPKGFYAEGSRGGSQASSRSSSRSRNSSRNSTPGSSKRTSPARMAGNGGDAALAL

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/gene="ORF10"

[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON928719.1?from=29474&to=29590) 29474..29590

/gene="ORF10"

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/protein\_id="[UTB50734.1](https://www.ncbi.nlm.nih.gov/protein/2264333306)"

/translation="MGYINVFAFPFTIYSLLLCRMNSRNYIAQVDVVNFNLT"

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/ON928719.1?from=29525&to=29560) 29525..29560

/gene="ORF10"

/note="Coronavirus 3' UTR pseudoknot stem-loop 1"

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/ON928719.1?from=29545&to=29573) 29545..29573

/gene="ORF10"

/note="Coronavirus 3' UTR pseudoknot stem-loop 2"

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/ON928719.1?from=29644&to=29684) 29644..29684

/note="Coronavirus 3' stem-loop II-like motif (s2m)"

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