**Severe acute respiratory syndrome coronavirus 2 isolate SARS-CoV-2/human/PRI/PR-UPRRP-499/2020 ORF1ab polyprotein (ORF1ab), ORF1a polyprotein (ORF1ab), surface glycoprotein (S), ORF3a protein (ORF3a), envelope protein (E), membrane glycoprotein (M), ORF6 prote...**

GenBank: ON928918.1

[FASTA](https://www.ncbi.nlm.nih.gov/nuccore/ON928918.1?report=fasta) [Graphics](https://www.ncbi.nlm.nih.gov/nuccore/ON928918.1?report=graph)

[Go to:](https://www.ncbi.nlm.nih.gov/nuccore/ON928918.1?expand-gaps=on" \l "goto2264335925_0)

LOCUS ON928918 29752 bp RNA linear VRL 06-JUL-2022

DEFINITION Severe acute respiratory syndrome coronavirus 2 isolate

SARS-CoV-2/human/PRI/PR-UPRRP-499/2020 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 (ORF7b) and ORF8 protein (ORF8) genes, partial cds; and

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

complete cds.

ACCESSION ON928918

VERSION ON928918.1

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JOURNAL Unpublished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/UTB53085.1?from=181&to=818) 752..2665

/gene="ORF1ab"

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[mat\_peptide](https://www.ncbi.nlm.nih.gov/protein/UTB53085.1?from=819&to=2762) 2666..8497

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[mat\_peptide](https://www.ncbi.nlm.nih.gov/protein/UTB53085.1?from=3263&to=3568) 9998..10915

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[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/ON928918.1?from=13410&to=13437) 13410..13437

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/note="Coronavirus frameshifting stimulation element

stem-loop 1"

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/ON928918.1?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/ON928918.1?from=21497&to=25309) 21497..25309

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CTFEYVSQPFLMDLEGKQGNFKNLREFVFKNIDGYFKIYSKHTPIIVREPEDLPQGFS

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[gene](https://www.ncbi.nlm.nih.gov/nuccore/ON928918.1?from=25318&to=26145) 25318..26145

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[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON928918.1?from=25318&to=26145) 25318..26145

/gene="ORF3a"

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/product="ORF3a protein"

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/translation="MDLFMRIFTIGTVTLKQGEIKDATPSDFVRATATIPIQASLPFG

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NSVTSSIVITSGDGTTSPISEHDYQIGGYTEKWESGVKDCVVLHSYFTSDYYQLYSTQ

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[gene](https://www.ncbi.nlm.nih.gov/nuccore/ON928918.1?from=26170&to=26397) 26170..26397

/gene="E"

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/protein\_id="[UTB53088.1](https://www.ncbi.nlm.nih.gov/protein/2264335930)"

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[gene](https://www.ncbi.nlm.nih.gov/nuccore/ON928918.1?from=26448&to=27116) 26448..27116

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LLVQ"

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/gene="ORF6"

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/gene="ORF6"

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/product="ORF6 protein"

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/translation="MFHLVDFQVTIAEILLIIMRTFKVSIWNLDYIINLIIKNLSKSL

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[gene](https://www.ncbi.nlm.nih.gov/nuccore/ON928918.1?from=27319&to=27684) 27319..27684

/gene="ORF7a"

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/codon\_start=1

/product="ORF7a protein"

/protein\_id="[UTB53091.1](https://www.ncbi.nlm.nih.gov/protein/2264335933)"

/translation="MKIILFLALITLATCELYHYQECVRGTTVLLKEPCSSGTYEGNS

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/gene="ORF7b"

[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON928918.1?from=27681&to=27750) 27681..>27750

/gene="ORF7b"

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/gene="ORF8"

[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON928918.1?from=27843&to=28184) <27843..28184

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YHDVRVVLDFI"

gap 27857..28013

/estimated\_length=157

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/gene="N"

[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON928918.1?from=28199&to=29449) 28199..29449

/gene="N"

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GTTLPKGFYAEGSRGGSQASSRSSSRSRNSSRNSTPGSSKRTSPARMAGNGGDAALAL

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EQTQGNFGDQELIRQGTDYKHWPQIAQFAPSASAFFGMSRIGMEVTPSGTWLTYTGAI

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[gene](https://www.ncbi.nlm.nih.gov/nuccore/ON928918.1?from=29474&to=29590) 29474..29590

/gene="ORF10"

[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON928918.1?from=29474&to=29590) 29474..29590

/gene="ORF10"

/codon\_start=1

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[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/ON928918.1?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/ON928918.1?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/ON928918.1?from=29644&to=29684) 29644..29684

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

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