**Severe acute respiratory syndrome coronavirus 2 isolate SARS-CoV-2/human/USA/CA-SLOPH-C1219/2022 ORF1ab polyprotein (ORF1ab) gene, partial cds; and ORF1a polyprotein (ORF1ab), surface glycoprotein (S), ORF3a protein (ORF3a), envelope protein (E), membrane glyc...**

GenBank: ON383919.1

[FASTA](https://www.ncbi.nlm.nih.gov/nuccore/ON383919.1?report=fasta) [Graphics](https://www.ncbi.nlm.nih.gov/nuccore/ON383919.1?report=graph)

[Go to:](https://www.ncbi.nlm.nih.gov/nuccore/ON383919.1" \l "goto2232461662_0)

LOCUS ON383919 29651 bp RNA linear VRL 29-APR-2022

DEFINITION Severe acute respiratory syndrome coronavirus 2 isolate

SARS-CoV-2/human/USA/CA-SLOPH-C1219/2022 ORF1ab polyprotein

(ORF1ab) gene, partial cds; and ORF1a polyprotein (ORF1ab), surface

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

membrane glycoprotein (M), ORF6 protein (ORF6), ORF7a protein

(ORF7a), ORF7b (ORF7b), ORF8 protein (ORF8), nucleocapsid

phosphoprotein (N), and ORF10 protein (ORF10) genes, complete cds.

ACCESSION ON383919

VERSION ON383919.1

DBLINK BioProject: [PRJNA749279](https://www.ncbi.nlm.nih.gov/bioproject/PRJNA749279)

BioSample: [SAMN27995993](https://www.ncbi.nlm.nih.gov/biosample/SAMN27995993)

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 29651)

AUTHORS Erwin,K. and Crowley,S.

TITLE Direct Submission

JOURNAL Submitted (29-APR-2022) County of San Luis Obispo Public Health

Laboratory, County of San Luis Obispo Public Health Laboratory

submission group, 2191 Johnson Ave, San Luis Obispo, CA 93401, USA

COMMENT ##Assembly-Data-START##

Assembly Method :: ClearLabs BIP-W v. v8

Sequencing Technology :: Oxford Nanopore Technology

##Assembly-Data-END##

FEATURES Location/Qualifiers

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GSVGFNIDYDCVSFCYMHHMELPTGVHAGTDLEGNFYGPFVDRQTAQAAGTDTTITVN

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/gene="ORF1ab"

/product="leader protein"

[mat\_peptide](https://www.ncbi.nlm.nih.gov/protein/UPQ51240.1?from=181&to=818) 752..2665

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stem-loop 1"

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/ON383919.1?from=13425&to=13479) 13425..13479

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/note="Coronavirus frameshifting stimulation element

stem-loop 2"

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[gene](https://www.ncbi.nlm.nih.gov/nuccore/ON383919.1?from=21500&to=25312) 21500..25312

/gene="S"

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NNCTFEYVSQPFLMDLEGKQGNFKNLREFVFKNIDGYFKIYSKHTPINLGRDLPQGFS

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EELDKYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDLQELGKYE

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[gene](https://www.ncbi.nlm.nih.gov/nuccore/ON383919.1?from=25321&to=26148) 25321..26148

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[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON383919.1?from=25321&to=26148) 25321..26148

/gene="ORF3a"

/codon\_start=1

/product="ORF3a protein"

/protein\_id="[UPQ51243.1](https://www.ncbi.nlm.nih.gov/protein/2232461666)"

/translation="MDLFMRIFTIGTVTLKQGEIKDATPSDFVRATATIPIQASLPFG

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NSVTSSIVITSGDGTTSPISEHDYQIGGYTEKWESGVKDCVVLHSYFTSDYYQLYSTQ

LSTDIGVEHVTFFIYNKIVDEPEEHVQIHTIDGSSGVVNPVMEPIYDEPTTTTSVPL"

[gene](https://www.ncbi.nlm.nih.gov/nuccore/ON383919.1?from=26173&to=26400) 26173..26400

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[gene](https://www.ncbi.nlm.nih.gov/nuccore/ON383919.1?from=26451&to=27119) 26451..27119

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/translation="MADSNGTITVEELKKLLEEWNLVIGFLFLTWICLLQFAYANRNR

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IKDLPKEITVATSRTLSYYKLGASQRVAGDSGFAAYSRYRIGNYKLNTDHSSSSDNIA

LLVQ"

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[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON383919.1?from=27130&to=27315) 27130..27315

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/codon\_start=1

/product="ORF6 protein"

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/translation="MFHLVDFQVTIAEILLIIMRTFKVSIWNLDYIINLIIKNLSKSL

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[gene](https://www.ncbi.nlm.nih.gov/nuccore/ON383919.1?from=27322&to=27687) 27322..27687

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/codon\_start=1

/product="ORF7a protein"

/protein\_id="[UPQ51247.1](https://www.ncbi.nlm.nih.gov/protein/2232461670)"

/translation="MKIILFLALITLATCELYHYQECVRGTTVLLKEPCSSGTYEGNS

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IVAAIVFITLCFTLKRKTE"

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[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON383919.1?from=27684&to=27815) 27684..27815

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/translation="MIELSLIDFYLCFLAFLLFLVLIMLIIFWFSLELQDHNETCHA"

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/gene="ORF8"

[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON383919.1?from=27822&to=28187) 27822..28187

/gene="ORF8"

/codon\_start=1

/product="ORF8 protein"

/protein\_id="[UPQ51249.1](https://www.ncbi.nlm.nih.gov/protein/2232461672)"

/translation="MKFLVFLGIITTVAAFHQECSLQSCTQHQPYVVDDPCPIHFYSK

WYIRVGARKSAPLIELCVDEAGSKSPIQYIDIGNYTVSCLPFTINCQEPKLGSLVVRC

SFYEDFLEYHDVRVVLDFI"

[gene](https://www.ncbi.nlm.nih.gov/nuccore/ON383919.1?from=28202&to=29452) 28202..29452

/gene="N"

[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON383919.1?from=28202&to=29452) 28202..29452

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GTTLPKGFYAEGSRGGSQASSRSSSRSRNSSRNSTPGSSKRTSPARMAGNGGDAALAL

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[gene](https://www.ncbi.nlm.nih.gov/nuccore/ON383919.1?from=29477&to=29593) 29477..29593

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[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON383919.1?from=29477&to=29593) 29477..29593

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/codon\_start=1

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

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/ON383919.1?from=29548&to=29576) 29548..29576

/gene="ORF10"

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

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/ON383919.1?from=29647&to=29651) 29647..>29651

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

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