**Severe acute respiratory syndrome coronavirus 2 isolate SARS-CoV-2/human/USA/CA-CDPH-8000000146/2022 ORF1ab polyprotein (ORF1ab), ORF1a polyprotein (ORF1ab), and surface glycoprotein (S) genes, complete cds; ORF3a protein (ORF3a) and envelope protein (E) genes...**

GenBank: ON618027.1

[FASTA](https://www.ncbi.nlm.nih.gov/nuccore/ON618027.1?report=fasta) [Graphics](https://www.ncbi.nlm.nih.gov/nuccore/ON618027.1?report=graph)

[Go to:](https://www.ncbi.nlm.nih.gov/nuccore/ON618027.1?expand-gaps=on" \l "goto2245759679_0)

LOCUS ON618027 29713 bp RNA linear VRL 26-MAY-2022

DEFINITION Severe acute respiratory syndrome coronavirus 2 isolate

SARS-CoV-2/human/USA/CA-CDPH-8000000146/2022 ORF1ab polyprotein

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

genes, complete cds; ORF3a protein (ORF3a) and envelope protein (E)

genes, partial cds; and 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 ON618027

VERSION ON618027.1

DBLINK BioProject: [PRJNA750736](https://www.ncbi.nlm.nih.gov/bioproject/PRJNA750736)

BioSample: [SAMN28165511](https://www.ncbi.nlm.nih.gov/biosample/SAMN28165511)

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 29713)

AUTHORS Smith,E.

TITLE Direct Submission

JOURNAL Submitted (26-MAY-2022) IDLB VRDL/COVIDNet, California Department

of Public Health, 850 Marina Bay Blvd, Richmond, CA 94804, USA

COMMENT ##Assembly-Data-START##

Assembly Method :: iVar v. 1.3.1

Sequencing Technology :: Illumina

##Assembly-Data-END##

FEATURES Location/Qualifiers

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/gene="ORF1ab"

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[mat\_peptide](https://www.ncbi.nlm.nih.gov/protein/URG68855.1?from=819&to=2763) 2681..8515

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stem-loop 1"

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/ON618027.1?from=13440&to=13494) 13440..13494

/gene="ORF1ab"

/note="Coronavirus frameshifting stimulation element

stem-loop 2"

gap 13721..13825

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[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON618027.1?from=25336&to=26072) 25336..>26072

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/product="ORF3a protein"

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/product="envelope protein"

/protein\_id="[URG68858.1](https://www.ncbi.nlm.nih.gov/protein/2245759684)"

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RVPDLLV"

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/gene="M"

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/gene="M"

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/product="membrane glycoprotein"

/protein\_id="[URG68859.1](https://www.ncbi.nlm.nih.gov/protein/2245759685)"

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LLVQ"

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/codon\_start=1

/product="ORF7a protein"

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/translation="MKIILFLALITLATCELYHYQECVRGTTVLLKEPCSSGTYEGNS

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IVAAIVFITLCFTLKRKTE"

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[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON618027.1?from=27699&to=27830) 27699..27830

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[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON618027.1?from=27837&to=28202) 27837..28202

/gene="ORF8"

/codon\_start=1

/product="ORF8 protein"

/protein\_id="[URG68863.1](https://www.ncbi.nlm.nih.gov/protein/2245759689)"

/translation="MKFLVFLGIITTVAAFHQECSLQSCTQHQPYVVDDPCPIHFYSK

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SFYEDFLEYHDVRVVLDFI"

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/gene="N"

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/gene="N"

/codon\_start=1

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[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON618027.1?from=29492&to=29608) 29492..29608

/gene="ORF10"

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/translation="MGYINVFAFPFTIYSLLLCRMNSRNYIAQVDVVNFNLT"

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

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/ON618027.1?from=29662&to=29676) 29662..29676

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

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