**Severe acute respiratory syndrome coronavirus 2 isolate SARS-CoV-2/human/USA/KY-GD-122821-52/2021 ORF1ab polyprotein (ORF1ab), ORF1a polyprotein (ORF1ab), surface glycoprotein (S), ORF3a protein (ORF3a), envelope protein (E), membrane glycoprotein (M), ORF6 pr...**

GenBank: OM084621.1

[FASTA](https://www.ncbi.nlm.nih.gov/nuccore/OM084621.1?report=fasta) [Graphics](https://www.ncbi.nlm.nih.gov/nuccore/OM084621.1?report=graph)

[Go to:](https://www.ncbi.nlm.nih.gov/nuccore/OM084621.1" \l "goto2172004456_0)

LOCUS OM084621 29769 bp RNA linear VRL 31-DEC-2021

DEFINITION Severe acute respiratory syndrome coronavirus 2 isolate

SARS-CoV-2/human/USA/KY-GD-122821-52/2021 ORF1ab polyprotein

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

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

(M), ORF6 protein (ORF6), ORF7a protein (ORF7a), and ORF7b (ORF7b)

genes, complete cds; ORF8 gene, complete sequence; and nucleocapsid

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

ACCESSION OM084621

VERSION OM084621.1

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 29769)

AUTHORS Diagnostics,G.

TITLE Direct Submission

JOURNAL Submitted (31-DEC-2021) Laboratory, Gravity Diagnostics, LLC, 812

Russell St, Covington, KY 41011, USA

COMMENT ##Assembly-Data-START##

Assembly Method :: DRAGEN COVID Lineage v. 3.5.4

Sequencing Technology :: Illumina

##Assembly-Data-END##

FEATURES Location/Qualifiers

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LAWLYAAVINGDRWFLNRFTTTLNDFNLVAMKYNYEPLTQDHVDILGPLSAQTGIAVL

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LLTILTSLLVLVQSTQWSLFFFLYENAFLPFAMGIIAMSAFAMMFVKHKHAFLCLFLL

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MCVEYCPIFFITGNTLQCIMLVYCFLGYFCTCYFGLFCLLNRYFRLTLGVYDYLVSTQ

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QQLRVESSSKLWAQCVQLHNDILLAKDTTEAFEKMVSLLSVLLSMQGAVDINKLCEEM

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NALAYYNTTKGGRFVLALLSDLQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPK

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stem-loop 1"

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/OM084621.1?from=13437&to=13491) 13437..13491

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stem-loop 2"

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/gene="ORF3a"

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NSVTSSIVITSGDGTTSPISEHDYQIGGYTEKWESGVKDCVVLHSYFTSDYYQLYSTQ

LSTDTGVEHVTFFIYNKIVDEPEEHVQIHTIDGSSGVVNPVMEPIYDEPTTTTSVPL"

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IKDLPKEITVATSRTLSYYKLGASQRVAGDSGFAAYSRYRIGNYKLNTDHSSSSDNIA

LLVQ"

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TENKYSQLDEEQPMEID"

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[CDS](https://www.ncbi.nlm.nih.gov/nuccore/OM084621.1?from=27696&to=27827) 27696..27827

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/gene="ORF8"

[misc\_feature](https://www.ncbi.nlm.nih.gov/nuccore/OM084621.1?from=27834&to=28201) 27834..28201

/gene="ORF8"

/note="similar to ORF8 protein"

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/gene="N"

[CDS](https://www.ncbi.nlm.nih.gov/nuccore/OM084621.1?from=28216&to=29466) 28216..29466

/gene="N"

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/translation="MSDNGPQNQRNALRITFGGPSDSTGSNQNGGARSKQRRPQGLPN

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EQTQGNFGDQELIRQGTDYKHWPQIAQFAPSASAFFGMSRIGMEVTPSGTWLTYTGAI

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/gene="ORF10"

/codon\_start=1

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/translation="MGYINVFAFPFTIYSLLLCRMNSRNYIAQVDVVNFNLT"

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/OM084621.1?from=29542&to=29577) 29542..29577

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

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/OM084621.1?from=29562&to=29590) 29562..29590

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

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/OM084621.1?from=29661&to=29701) 29661..29701

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

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