**Severe acute respiratory syndrome coronavirus 2 isolate SARS-CoV-2/human/USA/DC-CDC-LC0431281/2021 ORF1ab polyprotein (ORF1ab) and ORF1a polyprotein (ORF1ab) genes, partial cds; surface glycoprotein (S), ORF3a protein (ORF3a), envelope protein (E), membrane gl...**

GenBank: OM042846.1

[FASTA](https://www.ncbi.nlm.nih.gov/nuccore/OM042846.1?report=fasta) [Graphics](https://www.ncbi.nlm.nih.gov/nuccore/OM042846.1?report=graph)

[Go to:](https://www.ncbi.nlm.nih.gov/nuccore/OM042846.1?expand-gaps=on" \l "goto2170866864_0)

LOCUS OM042846 29176 bp RNA linear VRL 28-DEC-2021

DEFINITION Severe acute respiratory syndrome coronavirus 2 isolate

SARS-CoV-2/human/USA/DC-CDC-LC0431281/2021 ORF1ab polyprotein

(ORF1ab) and ORF1a polyprotein (ORF1ab) genes, partial cds; 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 protein (ORF8)

and nucleocapsid phosphoprotein (N) genes, partial cds; and ORF10

protein (ORF10) gene, complete cds.

ACCESSION OM042846

VERSION OM042846.1

DBLINK BioProject: [PRJNA716984](https://www.ncbi.nlm.nih.gov/bioproject/PRJNA716984)

KEYWORDS purposeofsampling:baselinesurveillance.

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 29176)

AUTHORS Howard,D., Batra,D., Cook,P.W., Caravas,J., Rambo-Martin,B.,

Sammons,S., Unoarumhi,Y., Schmerer,M., Lacek,K.A., Kendall,T.,

Caban Figueroa,V., Morrison,S., Gulvick,C., Agarwal,M., Almasri,E.,

Boles,D., Burns,A., Charoensri,N., Cohen,O., Countryman,S.,

Cristobal,M.A., Croy,B., Dale,S., Deshmukh,H., Douglas,A.,

Drouillon,V., Eisenberg,M., Engler,H., Ghatti,R., Gupta,P.,

Hicks,S., Humphrey,J., Iyer,L., Pfefferle,L., Jain,M., Robinson,M.,

Kolli,M., Krueger,B., Kuphal,T., Letovsky,S., Levandoski,M.,

Lukasik,C., Meltzer,J., Norvell,B., Nye,M., Parker,S.,

Petropoulos,C., Pruitt,J., Ragan,S., Ryan,S., Sapeta,M.,

Schroth,J., Selvaraju,S.B., Stevovic,G., Suchanek,A., Throop,A.,

Tilson,L., Urban,T., Voshell,J., Wagner,K., Williams,J.,

Williamson,M., Zeng,Q., Zwiefelhofer,T., Paden,C.R. and

MacCannell,D.

TITLE CDC Sars CoV2 Sequencing Baseline Constellation

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 29176)

AUTHORS Howard,D., Batra,D., Cook,P.W., Caravas,J., Rambo-Martin,B.,

Sammons,S., Unoarumhi,Y., Schmerer,M., Lacek,K.A., Kendall,T.,

Caban Figueroa,V., Morrison,S., Gulvick,C., Sula,E., Agarwal,M.,

Almasri,E., Boles,D., Burns,A., Charoensri,N., Cohen,O.,

Countryman,S., Cristobal,M.A., Croy,B., Dale,S., Deshmukh,H.,

Douglas,A., Drouillon,V., Eisenberg,M., Engler,H., Ghatti,R.,

Gupta,P., Hicks,S., Humphrey,J., Iyer,L., Pfefferle,L., Jain,M.,

Robinson,M., Kolli,M., Krueger,B., Kuphal,T., Letovsky,S.,

Levandoski,M., Lukasik,C., Meltzer,J., Norvell,B., Nye,M.,

Parker,S., Petropoulos,C., Pruitt,J., Ragan,S., Ryan,S., Sapeta,M.,

Schroth,J., Selvaraju,S.B., Stevovic,G., Suchanek,A., Throop,A.,

Tilson,L., Urban,T., Voshell,J., Wagner,K., Williams,J.,

Williamson,M., Zeng,Q., Zwiefelhofer,T., Paden,C.R. and

MacCannell,D.

TITLE Direct Submission

JOURNAL Submitted (28-DEC-2021) Respiratory Viruses Branch, Division of

Viral Diseases, Centers for Disease Control and Prevention, 1600

Clifton Rd, Atlanta, GA 30329, USA

COMMENT ##Assembly-Data-START##

Assembly Method :: CLC Genomics

Sequencing Technology :: PacBio Sequel II

##Assembly-Data-END##

FEATURES Location/Qualifiers

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[mat\_peptide](https://www.ncbi.nlm.nih.gov/protein/UHR97480.1?from=64&to=701) 191..2104

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gap 7787..8095

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[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/OM042846.1?from=12852&to=12879) 12852..12879

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[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/OM042846.1?from=12864&to=12918) 12864..12918

/gene="ORF1ab"

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stem-loop 2"

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/protein\_id="[UHR97482.1](https://www.ncbi.nlm.nih.gov/protein/2170866868)"

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LLVQ"

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ELIRQGTDYKHWPQIAQFAPSASAFFGMSRIGMEVTPSGTWLTYTGAIKLDDKDPNFK

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gap 27733..28019

/estimated\_length=287

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/gene="ORF10"

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[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/OM042846.1?from=28967&to=29002) 28967..29002

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

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/OM042846.1?from=28987&to=29015) 28987..29015

/gene="ORF10"

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

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/OM042846.1?from=29086&to=29126) 29086..29126

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

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