**Severe acute respiratory syndrome coronavirus 2 isolate SARS-CoV-2/human/USA/PA-CDC-QDX38634742/2022 ORF1ab polyprotein (ORF1ab), ORF1a polyprotein (ORF1ab), surface glycoprotein (S), ORF3a protein (ORF3a), envelope protein (E), and membrane glycoprotein (M) g...**

GenBank: OP054411.1

[FASTA](https://www.ncbi.nlm.nih.gov/nuccore/OP054411.1?report=fasta) [Graphics](https://www.ncbi.nlm.nih.gov/nuccore/OP054411.1?report=graph)

[Go to:](https://www.ncbi.nlm.nih.gov/nuccore/OP054411.1" \l "goto2276972340_0)

LOCUS OP054411 29661 bp RNA linear VRL 25-JUL-2022

DEFINITION Severe acute respiratory syndrome coronavirus 2 isolate

SARS-CoV-2/human/USA/PA-CDC-QDX38634742/2022 ORF1ab polyprotein

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

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

glycoprotein (M) genes, complete cds; ORF6 gene, complete sequence;

and ORF7a protein (ORF7a), ORF7b (ORF7b), ORF8 protein (ORF8),

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

complete cds.

ACCESSION OP054411

VERSION OP054411.1

DBLINK BioProject: [PRJNA716985](https://www.ncbi.nlm.nih.gov/bioproject/PRJNA716985)

BioSample: [SAMN29925145](https://www.ncbi.nlm.nih.gov/biosample/SAMN29925145)

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 29661)

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.,

Rosenthal,S.H., Gerasimova,A., Kagan,R.M., Anderson,B., Hua,M.,

Liu,Y., Bernstein,L.E., Livingston,K.E., Perez,A., Shlyakhter,I.A.,

Rolando,R.V., Owen,R., Tanpaiboon,P., Lacbawan,F., Paden,C.R. and

MacCannell,D.

TITLE CDC Sars CoV2 Sequencing Baseline Constellation

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 29661)

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.,

Rosenthal,S.H., Gerasimova,A., Kagan,R.M., Anderson,B., Hua,M.,

Liu,Y., Bernstein,L.E., Livingston,K.E., Perez,A., Shlyakhter,I.A.,

Rolando,R.V., Owen,R., Tanpaiboon,P., Lacbawan,F., Paden,C.R. and

MacCannell,D.

TITLE Direct Submission

JOURNAL Submitted (24-JUL-2022) 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 :: BWA v.7.12

Sequencing Technology :: Illumina Novaseq

##Assembly-Data-END##

FEATURES Location/Qualifiers

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VIVFDGKSKCEESSAKSASVYYSQLMCQPILLLDQALVSDVGDSAEVAVKMFDAYVNT

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QLIKVTLVFLFVAAIFYLITPVHVMSKHTDFSSEIIGYKAIDGGVTRDIASTDTCFAN

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WVLNNDYYRSLPGVFCGVDAVNLFTNMFTPLIQPIGALDISASIVAGGIVAIVVTCLA

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KALNDFSNSGSDVLYQPPQISITSAVLQSGFRKMAFPSGKVEGCMVQVTCGTTTLNGL

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stem-loop 1"

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/OP054411.1?from=13426&to=13480) 13426..13480

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/product="ORF3a protein"

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/translation="MDLFMRIFTIGTVTLKQGEIKDATPSDFVRATATIPIQASLPFG

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NSVTSSIVITSGDGTTSPISEHDYQIGGYTEKWESGVKDCVVLHSYFTSDYYQLYSTQ

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LLVQ"

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/gene="ORF6"

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SFYEDFLEYHDVRVVLDFI"

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GTTLPKGFYAEGSRGGSQASSRSSSRSRNSSRNSTPGSSKRTSPARMAGNGGDAALAL

LLLDRLNQLESKMSGKGQQQQGQTVTKKSAAEASKKPRQKRTATKAYNVTQAFGRRGP

EQTQGNFGDQELIRQGTDYKHWPQIAQFAPSASAFFGMSRIGMEVTPSGTWLTYTGAI

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

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/OP054411.1?from=29588&to=29602) 29588..29602

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

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