**Severe acute respiratory syndrome coronavirus 2 isolate SARS-CoV-2/human/USA/MA-CDC-ASC210721152/2022 ORF1ab polyprotein (ORF1ab) and ORF1a polyprotein (ORF1ab) genes, partial cds; and surface glycoprotein (S), ORF3a protein (ORF3a), envelope protein (E), memb...**

GenBank: ON250163.1

[FASTA](https://www.ncbi.nlm.nih.gov/nuccore/ON250163.1?report=fasta) [Graphics](https://www.ncbi.nlm.nih.gov/nuccore/ON250163.1?report=graph)

[Go to:](https://www.ncbi.nlm.nih.gov/nuccore/ON250163.1" \l "goto2225368274_0)

LOCUS ON250163 29724 bp RNA linear VRL 18-APR-2022

DEFINITION Severe acute respiratory syndrome coronavirus 2 isolate

SARS-CoV-2/human/USA/MA-CDC-ASC210721152/2022 ORF1ab polyprotein

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

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 ON250163

VERSION ON250163.1

DBLINK BioProject: [PRJNA731148](https://www.ncbi.nlm.nih.gov/bioproject/PRJNA731148)

BioSample: [SAMN27600875](https://www.ncbi.nlm.nih.gov/biosample/SAMN27600875)

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 29724)

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., Clark,C.,

Campbell,P., Case,R., Ghorpade,V., Houdeshell,H., Kvalvaag,O.,

Nall,D., Sanders,E., Vest,A., Westlund,S., Hardison,M., Paden,C.R.

and MacCannell,D.

TITLE CDC Sars CoV2 Sequencing Baseline Constellation

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 29724)

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., Clark,C.,

Campbell,P., Case,R., Ghorpade,V., Houdeshell,H., Kvalvaag,O.,

Nall,D., Sanders,E., Vest,A., Westlund,S., Hardison,M., Paden,C.R.

and MacCannell,D.

TITLE Direct Submission

JOURNAL Submitted (15-APR-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 :: Dragen COVID Lineage v3.5.9

Sequencing Technology :: Illumina NovaSeq 6000

##Assembly-Data-END##

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/product="leader protein"

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/note="Coronavirus frameshifting stimulation element

stem-loop 1"

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/ON250163.1?from=13429&to=13483) 13429..13483

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stem-loop 2"

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/product="ORF3a protein"

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/translation="MDLFMRIFTIGTVTLKQGEIKDATPSDFVRATATIPIQASLPFG

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NSVTSSIVITSGDGTTSPISEHDYQIGGYTEKWESGVKDCVVLHSYFTSDYYQLYSTQ

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/gene="ORF8"

[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON250163.1?from=27826&to=28191) 27826..28191

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SFYEDFLEYHDVRVVLDFI"

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/gene="N"

[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON250163.1?from=28206&to=29456) 28206..29456

/gene="N"

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/gene="ORF10"

[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON250163.1?from=29481&to=29597) 29481..29597

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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/ON250163.1?from=29552&to=29580) 29552..29580

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

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/ON250163.1?from=29651&to=29665) 29651..29665

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

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