**Severe acute respiratory syndrome coronavirus 2 isolate SARS-CoV-2/human/USA/IL-CDC-ASC210733373/2022 ORF1ab polyprotein (ORF1ab), ORF1a polyprotein (ORF1ab), surface glycoprotein (S), ORF3a protein (ORF3a), and envelope protein (E) genes, complete cds; membra...**

GenBank: ON047062.1

[FASTA](https://www.ncbi.nlm.nih.gov/nuccore/ON047062.1?report=fasta) [Graphics](https://www.ncbi.nlm.nih.gov/nuccore/ON047062.1?report=graph)

[Go to:](https://www.ncbi.nlm.nih.gov/nuccore/ON047062.1" \l "goto2210876528_0)

LOCUS ON047062 29729 bp RNA linear VRL 23-MAR-2022

DEFINITION Severe acute respiratory syndrome coronavirus 2 isolate

SARS-CoV-2/human/USA/IL-CDC-ASC210733373/2022 ORF1ab polyprotein

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

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

cds; membrane glycoprotein (M) and ORF7a protein (ORF7a) genes,

partial cds; and ORF7b (ORF7b), ORF8 protein (ORF8), nucleocapsid

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

ACCESSION ON047062

VERSION ON047062.1

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

BioSample: [SAMN26882108](https://www.ncbi.nlm.nih.gov/biosample/SAMN26882108)

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 29729)

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JOURNAL Unpublished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 29729)

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 (23-MAR-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 v3.5.6

Sequencing Technology :: Illumina NovaSeq 6000

##Assembly-Data-END##

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[mat\_peptide](https://www.ncbi.nlm.nih.gov/protein/UNO93315.1?from=181&to=818) 719..2632

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/product="nsp2"

[mat\_peptide](https://www.ncbi.nlm.nih.gov/protein/UNO93315.1?from=819&to=2762) 2633..8464

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[mat\_peptide](https://www.ncbi.nlm.nih.gov/protein/UNO93315.1?from=4389&to=4401) 13343..13381

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gap 4624..4840

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/note="Coronavirus frameshifting stimulation element

stem-loop 1"

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/ON047062.1?from=13389&to=13443) 13389..13443

/gene="ORF1ab"

/note="Coronavirus frameshifting stimulation element

stem-loop 2"

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/gene="S"

[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON047062.1?from=21464&to=25276) 21464..25276

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[gene](https://www.ncbi.nlm.nih.gov/nuccore/ON047062.1?from=26137&to=26364) 26137..26364

/gene="E"

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[gene](https://www.ncbi.nlm.nih.gov/nuccore/ON047062.1?from=26415&to=26877) 26415..>26877

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/codon\_start=3

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/translation="VRGTTVLLKEPCSSGTYEGNSPFHPLADNKFALTCFSTQFAFAC

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[gene](https://www.ncbi.nlm.nih.gov/nuccore/ON047062.1?from=27648&to=27779) 27648..27779

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[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON047062.1?from=27648&to=27779) 27648..27779

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[gene](https://www.ncbi.nlm.nih.gov/nuccore/ON047062.1?from=27786&to=28151) 27786..28151

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SFYEDFLEYHDVRVVLDFI"

[gene](https://www.ncbi.nlm.nih.gov/nuccore/ON047062.1?from=28166&to=29416) 28166..29416

/gene="N"

[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON047062.1?from=28166&to=29416) 28166..29416

/gene="N"

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GTTLPKGFYAEGSRGGSQASSRSSSRSRNSSRNSTPGSSKRTSPARMAGNGGDAALAL

LLLDRLNQLESKMSGKGQQQQGQTVTKKSAAEASKKPRQKRTATKAYNVTQAFGRRGP

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[CDS](https://www.ncbi.nlm.nih.gov/nuccore/ON047062.1?from=29441&to=29557) 29441..29557

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[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/ON047062.1?from=29492&to=29527) 29492..29527

/gene="ORF10"

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

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/ON047062.1?from=29512&to=29540) 29512..29540

/gene="ORF10"

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

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/ON047062.1?from=29611&to=29651) 29611..29651

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

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