**Severe acute respiratory syndrome coronavirus 2 isolate SARS-CoV-2/human/USA/KY-GD\_02021/2021, complete genome**

GenBank: OM918459.1

[FASTA](https://www.ncbi.nlm.nih.gov/nuccore/OM918459.1?report=fasta) [Graphics](https://www.ncbi.nlm.nih.gov/nuccore/OM918459.1?report=graph)

[Go to:](https://www.ncbi.nlm.nih.gov/nuccore/OM918459.1" \l "goto2204028042_0)

LOCUS OM918459 29720 bp RNA linear VRL 05-MAR-2022

DEFINITION Severe acute respiratory syndrome coronavirus 2 isolate

SARS-CoV-2/human/USA/KY-GD\_02021/2021, complete genome.

ACCESSION OM918459

VERSION OM918459.1

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 29720)

AUTHORS Hudson,E., Lauer,W., Canner,J.P., Walker,R., Chariker,J.H.,

Neupane,A., Rouchka,E.C. and Smith,M.L.

TITLE Direct Submission

JOURNAL Submitted (05-MAR-2022) Biochemistry and Molecular Genetics,

University of Louisville, 522 East Gray Street, Louisville, KY

40292, USA

COMMENT ##Assembly-Data-START##

Assembly Method :: SMRTLink HiFi Viral SARS-CoV-2 pipeline v.

10.2

Sequencing Technology :: PacBio

##Assembly-Data-END##

FEATURES Location/Qualifiers

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/note="Coronavirus frameshifting stimulation element

stem-loop 1"

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/OM918459.1?from=13404&to=13458) 13404..13458

/gene="ORF1ab"

/note="Coronavirus frameshifting stimulation element

stem-loop 2"

[gene](https://www.ncbi.nlm.nih.gov/nuccore/OM918459.1?from=21479&to=25294) 21479..25294

/gene="S"

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CTFEYVSQPFLMDLEGKQGNFKNLREFVFKNIDGYFKIYSKHTPINLVREPEDLPQGF

SALEPLVDLPIGINITRFQTLLALHRSYLTPGDSSSGWTAGAAAYYVGYLQPRTFLLK

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[CDS](https://www.ncbi.nlm.nih.gov/nuccore/OM918459.1?from=25303&to=26130) 25303..26130

/gene="ORF3a"

/codon\_start=1

/product="ORF3a protein"

/protein\_id="[UMP59346.1](https://www.ncbi.nlm.nih.gov/protein/2204028046)"

/translation="MDLFMRIFTIGTVTLKQGEIKDATPSDFVRATATIPIQASLPFG

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NSVTSSIVITSGDGTTSPISEHDYQIGGYTEKWESGVKDCVVLHSYFTSDYYQLYSTQ

LSTDTGVEHVTFFIYNKIVDEPEEHVQIHTIDGSSGVVNPVMEPIYDEPTTTTSVPL"

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LLVQ"

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/codon\_start=1

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/protein\_id="[UMP59349.1](https://www.ncbi.nlm.nih.gov/protein/2204028049)"

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TENKYSQLDEEQPMEID"

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/gene="ORF7a"

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/codon\_start=1

/product="ORF7a protein"

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/translation="MKIILFLALITLATCELYHYQECVRGTTVLLKEPCSSGTYEGNS

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IVAAIVFITLCFTLKRKTE"

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/translation="MIELSLIDFYLCFLAFLLFLVLIMLIIFWFSLELQDHNETCHA"

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[CDS](https://www.ncbi.nlm.nih.gov/nuccore/OM918459.1?from=27804&to=28169) 27804..28169

/gene="ORF8"

/codon\_start=1

/product="ORF8 protein"

/protein\_id="[UMP59352.1](https://www.ncbi.nlm.nih.gov/protein/2204028052)"

/translation="MKFLVFLGIITTVAAFHQECSLQSCTQHQPYVVDDPCPIHFYSK

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SFYEDFLEYHDVRVVLDFI"

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/gene="N"

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/gene="N"

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[CDS](https://www.ncbi.nlm.nih.gov/nuccore/OM918459.1?from=29459&to=29575) 29459..29575

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

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

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/OM918459.1?from=29629&to=29669) 29629..29669

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

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