**Severe acute respiratory syndrome coronavirus 2 isolate SARS-CoV-2/human/USA/B014481/2022, complete genome**

GenBank: OM864099.1

[FASTA](https://www.ncbi.nlm.nih.gov/nuccore/OM864099.1?report=fasta) [Graphics](https://www.ncbi.nlm.nih.gov/nuccore/OM864099.1?report=graph)

[Go to:](https://www.ncbi.nlm.nih.gov/nuccore/OM864099.1" \l "goto2200869004_0)

LOCUS OM864099 29684 bp RNA linear VRL 28-FEB-2022

DEFINITION Severe acute respiratory syndrome coronavirus 2 isolate

SARS-CoV-2/human/USA/B014481/2022, complete genome.

ACCESSION OM864099

VERSION OM864099.1

DBLINK BioProject: [PRJNA765540](https://www.ncbi.nlm.nih.gov/bioproject/PRJNA765540)

BioSample: [SAMN26311646](https://www.ncbi.nlm.nih.gov/biosample/SAMN26311646)

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 29684)

AUTHORS Kandel,S., Bird,J.T., Byrum,S.D., Thurman,T.J., Kennedy,J.L. and

Ussery,D.W.

TITLE SARS-CoV2 sequence detection

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 29684)

AUTHORS Kandel,S., Bird,J.T., Byrum,S.D., Thurman,T.J., Kennedy,J.L. and

Ussery,D.W.

TITLE Direct Submission

JOURNAL Submitted (28-FEB-2022) Department of Biomedical Informatics,

University of Arkansas for Medical Sciences, 501 Jack Stephens

Drive, Little Rock, AR 72205, USA

COMMENT ##Assembly-Data-START##

Assembly Method :: Medaka via Artic v1.2.1

Coverage :: NA

Sequencing Technology :: Nanopore GridION

##Assembly-Data-END##

FEATURES Location/Qualifiers

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SVGFNIDYDCVSFCYMHHMELPTGVHAGTDLEGNFYGPFVDRQTAQAAGTDTTITVNV

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LLTILTSLLVLVQSTQWSLFFFLYENAFLPFAMGIIAMSAFAMMFVKHKHAFLCLFLL

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MCVEYCPIFFITGNTLQCIMLVYCFLGYFCTCYFGLFCLLNRYFRLTLGVYDYLVSTQ

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LDNRATLQAIASEFSSLPSYAAFATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFD

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[mat\_peptide](https://www.ncbi.nlm.nih.gov/protein/UMB24157.1?from=1&to=180) 212..751

/gene="ORF1ab"

/product="leader protein"

[mat\_peptide](https://www.ncbi.nlm.nih.gov/protein/UMB24157.1?from=181&to=818) 752..2665

/gene="ORF1ab"

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[mat\_peptide](https://www.ncbi.nlm.nih.gov/protein/UMB24157.1?from=819&to=2762) 2666..8497

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[mat\_peptide](https://www.ncbi.nlm.nih.gov/protein/UMB24157.1?from=2763&to=3262) 8498..9997

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[mat\_peptide](https://www.ncbi.nlm.nih.gov/protein/UMB24157.1?from=3263&to=3568) 9998..10915

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/product="3C-like proteinase"

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[mat\_peptide](https://www.ncbi.nlm.nih.gov/protein/UMB24157.1?from=3856&to=3938) 11777..12025

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[mat\_peptide](https://www.ncbi.nlm.nih.gov/protein/UMB24157.1?from=3939&to=4136) 12026..12619

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[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/OM864099.1?from=13410&to=13437) 13410..13437

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/note="Coronavirus frameshifting stimulation element

stem-loop 1"

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/OM864099.1?from=13422&to=13476) 13422..13476

/gene="ORF1ab"

/note="Coronavirus frameshifting stimulation element

stem-loop 2"

[gene](https://www.ncbi.nlm.nih.gov/nuccore/OM864099.1?from=21497&to=25309) 21497..25309

/gene="S"

[CDS](https://www.ncbi.nlm.nih.gov/nuccore/OM864099.1?from=21497&to=25309) 21497..25309

/gene="S"

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ALEPLVDLPIGINITRFQTLLALHRSYLTPGDSSSGWTAGAAAYYVGYLQPRTFLLKY

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[gene](https://www.ncbi.nlm.nih.gov/nuccore/OM864099.1?from=25318&to=26145) 25318..26145

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[CDS](https://www.ncbi.nlm.nih.gov/nuccore/OM864099.1?from=25318&to=26145) 25318..26145

/gene="ORF3a"

/codon\_start=1

/product="ORF3a protein"

/protein\_id="[UMB24159.1](https://www.ncbi.nlm.nih.gov/protein/2200869008)"

/translation="MDLFMRIFTIGTVTLKQGEIKDATPSDFVRATATIPIQASLPFG

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NSVTSSIVITSGDGTTSPISEHDYQIGGYTEKWESGVKDCVVLHSYFTSDYYQLYSTQ

LSTDTGVEHVTFFIYNKIVDEPEEHVQIHTIDGSSGVVNPVMEPIYDEPTTTTSVPL"

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/gene="E"

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/gene="E"

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/gene="M"

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/gene="M"

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LLVQ"

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[CDS](https://www.ncbi.nlm.nih.gov/nuccore/OM864099.1?from=27127&to=27312) 27127..27312

/gene="ORF6"

/codon\_start=1

/product="ORF6 protein"

/protein\_id="[UMB24162.1](https://www.ncbi.nlm.nih.gov/protein/2200869011)"

/translation="MFHLVDFQVTIAEILLIIMRTFKVSIWNLDYIINLIIKNLSKSL

TENKYSQLDEEQPMEID"

[gene](https://www.ncbi.nlm.nih.gov/nuccore/OM864099.1?from=27319&to=27684) 27319..27684

/gene="ORF7a"

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/product="ORF7a protein"

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IVAAIVFITLCFTLKRKTE"

[gene](https://www.ncbi.nlm.nih.gov/nuccore/OM864099.1?from=27681&to=27812) 27681..27812

/gene="ORF7b"

[CDS](https://www.ncbi.nlm.nih.gov/nuccore/OM864099.1?from=27681&to=27812) 27681..27812

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/gene="ORF8"

[CDS](https://www.ncbi.nlm.nih.gov/nuccore/OM864099.1?from=27819&to=28184) 27819..28184

/gene="ORF8"

/codon\_start=1

/product="ORF8 protein"

/protein\_id="[UMB24165.1](https://www.ncbi.nlm.nih.gov/protein/2200869014)"

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SFYEDFLEYHDVRVVLDFI"

[gene](https://www.ncbi.nlm.nih.gov/nuccore/OM864099.1?from=28199&to=29449) 28199..29449

/gene="N"

[CDS](https://www.ncbi.nlm.nih.gov/nuccore/OM864099.1?from=28199&to=29449) 28199..29449

/gene="N"

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GTTLPKGFYAEGSRGGSQASSRSSSRSRNSSRNSTPGSSKRTSPARMAGNGGDAALAL

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PAADLDDFSKQLQQSMSSADSTQA"

[gene](https://www.ncbi.nlm.nih.gov/nuccore/OM864099.1?from=29474&to=29590) 29474..29590

/gene="ORF10"

[CDS](https://www.ncbi.nlm.nih.gov/nuccore/OM864099.1?from=29474&to=29590) 29474..29590

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/translation="MGYINVFAFPFTIYSLLLCRMNSRNYIAQVDVVNFNLT"

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

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/OM864099.1?from=29545&to=29573) 29545..29573

/gene="ORF10"

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

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/OM864099.1?from=29644&to=29684) 29644..29684

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

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