**Severe acute respiratory syndrome coronavirus 2 isolate SARS-CoV-2/human/USA/JW1506/2021, complete genome**

GenBank: MZ620161.1

[FASTA](https://www.ncbi.nlm.nih.gov/nuccore/MZ620161.1?report=fasta) [Graphics](https://www.ncbi.nlm.nih.gov/nuccore/MZ620161.1?report=graph)

[Go to:](https://www.ncbi.nlm.nih.gov/nuccore/MZ620161.1" \l "goto2072614063_0)

LOCUS MZ620161 29830 bp RNA linear VRL 26-JUL-2021

DEFINITION Severe acute respiratory syndrome coronavirus 2 isolate

SARS-CoV-2/human/USA/JW1506/2021, complete genome.

ACCESSION MZ620161

VERSION MZ620161.1

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 29830)

AUTHORS Wang,J., Hawken,S., Rubinsteyn,A., Smedberg,J., Rice,C., Hagan,R.,

Barzin,A., Loftis,A.J., Fiscus,S., Jones,C. and Miller,M.

TITLE Direct Submission

JOURNAL Submitted (23-JUL-2021) Genetics, University of North Carolina at

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CB#7264, Chapel Hill, NC 27599, USA

COMMENT ##Assembly-Data-START##

Assembly Method :: Medaka v. 1.2.0

Sequencing Technology :: Oxford Nanopore

##Assembly-Data-END##

FEATURES Location/Qualifiers

source 1..29830

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[mat\_peptide](https://www.ncbi.nlm.nih.gov/protein/QXX43146.1?from=179&to=816) 770..2683

/gene="ORF1ab"

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stem-loop 1"

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/MZ620161.1?from=13452&to=13506) 13452..13506

/gene="ORF1ab"

/note="Coronavirus frameshifting stimulation element

stem-loop 2"

[gene](https://www.ncbi.nlm.nih.gov/nuccore/MZ620161.1?from=21527&to=25348) 21527..25348

/gene="S"

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FPREGVFVSNGTHWFVTQRNFYEPQIITTDNTFVSGNCDVVIGIVNNTVYDPLQPELD

SFKEELDKYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDLQELG

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/product="ORF3a protein"

/protein\_id="[QXX43148.1](https://www.ncbi.nlm.nih.gov/protein/2072614067)"

/translation="MDLFMRIFTIGTVTLKQGEIKDATPSDFVRATATIPIQASLPFG

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NSVTSSIVITSGDGTTSPISEHDYQIGGYTEKWESGVKDCVVLHSYFTSDYYQLYSTQ

LSTDTGVEHVTFFIYNKIVDEPEEHVQIHTIDGSSGVXXPVMEPIYDEPTTTTSVPL"

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/gene="E"

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/gene="E"

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/protein\_id="[QXX43149.1](https://www.ncbi.nlm.nih.gov/protein/2072614068)"

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/gene="M"

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/protein\_id="[QXX43150.1](https://www.ncbi.nlm.nih.gov/protein/2072614069)"

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IKDLPKEITVATSRTLSYYKLGASQRVAGDSGFAAYSRYRIGNYKLNTDHSSSSDNIA

LLVQ"

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[CDS](https://www.ncbi.nlm.nih.gov/nuccore/MZ620161.1?from=27166&to=27351) 27166..27351

/gene="ORF6"

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/protein\_id="[QXX43151.1](https://www.ncbi.nlm.nih.gov/protein/2072614070)"

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TENKYSQLDEEQPMEID"

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/gene="ORF7a"

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/product="ORF7a protein"

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/translation="MKIILFLALITLATCELYHYQECVRGTTVLLKEPCSSGTYEGNS

PFHPLADNKFALTCFSTQFAFACPDGVKHVYQLRARSVSPKLFIRQEEVQELYSPIFL

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[CDS](https://www.ncbi.nlm.nih.gov/nuccore/MZ620161.1?from=27720&to=27851) 27720..27851

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[CDS](https://www.ncbi.nlm.nih.gov/nuccore/MZ620161.1?from=27858&to=28223) 27858..28223

/gene="ORF8"

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/product="ORF8 protein"

/protein\_id="[QXX43154.1](https://www.ncbi.nlm.nih.gov/protein/2072614073)"

/translation="MKFLVFLGIIKTVAAFHQECSLQSCTQHQPYVVDDPCSIHFYSK

WYIRVGARKSAPLIELCVDEAGFKSPIQYIDIGNYTVSCLPFTINCQEPKLGSLVVRC

SFYEDFLEYHDVRVVLDFI"

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/gene="N"

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/gene="N"

/codon\_start=1

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LPQGTTLPKGFYAEGSRGGSQASSRSSSRSRNSSRNSTPGSSRGISPARMAGNGGDSA

LALLLLDRLNQLESKMSGKGQQQQGQTVTKKSAAEASKKPRQKRTATKAYNVTQAFGR

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[gene](https://www.ncbi.nlm.nih.gov/nuccore/MZ620161.1?from=29522&to=29638) 29522..29638

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[CDS](https://www.ncbi.nlm.nih.gov/nuccore/MZ620161.1?from=29522&to=29638) 29522..29638

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/protein\_id="[QXX43156.1](https://www.ncbi.nlm.nih.gov/protein/2072614075)"

/translation="MGYINVFAFPFTIYSLLLCRMNSRNYIAQVDVVNFNLT"

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

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/MZ620161.1?from=29593&to=29621) 29593..29621

/gene="ORF10"

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

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/MZ620161.1?from=29692&to=29732) 29692..29732

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

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