**Severe acute respiratory syndrome coronavirus 2 isolate SARS-CoV-2/human/THA/CONI-3664/2022 ORF1ab polyprotein (ORF1ab) gene, partial cds; ORF1a polyprotein (ORF1ab), surface glycoprotein (S), ORF3a protein (ORF3a), envelope protein (E), membrane glycoprotein ...**

GenBank: OP579158.1

[FASTA](https://www.ncbi.nlm.nih.gov/nuccore/OP579158.1?report=fasta) [Graphics](https://www.ncbi.nlm.nih.gov/nuccore/OP579158.1?report=graph)

LOCUS OP579158 29652 bp RNA linear VRL 04-OCT-2022

DEFINITION Severe acute respiratory syndrome coronavirus 2 isolate

SARS-CoV-2/human/THA/CONI-3664/2022 ORF1ab polyprotein (ORF1ab)

gene, partial cds; ORF1a polyprotein (ORF1ab), surface glycoprotein

(S), ORF3a protein (ORF3a), envelope protein (E), membrane

glycoprotein (M), ORF6 protein (ORF6), and ORF7a protein (ORF7a)

genes, complete cds; ORF7b (ORF7b) and ORF8 protein (ORF8) genes,

partial cds; and nucleocapsid phosphoprotein (N) and ORF10 protein

(ORF10) genes, complete cds.

ACCESSION OP579158

VERSION OP579158.1

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 29652)

AUTHORS Huang,A., Jones,A.R., Wangwiwatsin,A., Klungtong,C.,

Loesbanluechai,D., Pasomsub,E., Nosten,F., Thaipadungpanit,J.,

Joonlasak,K., Rakmanee,K., Sawakwongpra,K., Kumpornsin,K.,

Kotanan,N., Fernandez,S., Chookajorn,T., Kochakarn,T.,

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TITLE Direct Submission

JOURNAL Submitted (04-OCT-2022) Faculty of Tropical Medicine,

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COMMENT ##Assembly-Data-START##

Assembly Method :: Artic v. 1.2

Sequencing Technology :: Oxford Nanopore

##Assembly-Data-END##

FEATURES Location/Qualifiers

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/gene="ORF1ab"

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[mat\_peptide](https://www.ncbi.nlm.nih.gov/protein/UXR16788.1?from=3940&to=4137) 12029..12622

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/note="Coronavirus frameshifting stimulation element

stem-loop 1"

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/OP579158.1?from=13425&to=13479) 13425..13479

/gene="ORF1ab"

/note="Coronavirus frameshifting stimulation element

stem-loop 2"

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/estimated\_length=174

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/gene="S"

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NNCTFEYVSQPFLMDLEGKQGNFKNLREFVFKNIDGYFKIYSKHTPINLGRDLPQGFS

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EELDKYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDLQELGKYE

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[CDS](https://www.ncbi.nlm.nih.gov/nuccore/OP579158.1?from=25321&to=26148) 25321..26148

/gene="ORF3a"

/codon\_start=1

/product="ORF3a protein"

/protein\_id="[UXR16791.1](https://www.ncbi.nlm.nih.gov/protein/2312959408)"

/translation="MDLFMRIFTIGTVTLKQGEIKDATPSDFVRATATIPIQASLPFG

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NSVTSSIVITSGDGTTSPISEHDYQIGGYTEKWESGVKDCVVLHSYFTSDYYQLYSTQ

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/gene="E"

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/gene="M"

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IKDLPKEITVATSRTLSYYKLGASQRVAGDSGFAAYSRYRIGNYKLNTDHSSSSDNIA

LLVQ"

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/gene="ORF6"

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/gene="ORF6"

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/translation="MFHLVDFQVTIAEILLIIMRTFKVSIWNLDYIINLIIKNLSKSL

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/codon\_start=1

/product="ORF7a protein"

/protein\_id="[UXR16795.1](https://www.ncbi.nlm.nih.gov/protein/2312959412)"

/translation="MKIILFLALITLATCELYHYQECVRGTTVLLKEPCSSGTYEGNS

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/gene="ORF7b"

[CDS](https://www.ncbi.nlm.nih.gov/nuccore/OP579158.1?from=27684&to=27800) 27684..>27800

/gene="ORF7b"

/codon\_start=1

/product="ORF7b"

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/estimated\_length=330

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/gene="ORF8"

[CDS](https://www.ncbi.nlm.nih.gov/nuccore/OP579158.1?from=28131&to=28187) <28131..28187

/gene="ORF8"

/codon\_start=1

/product="ORF8 protein"

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/translation="FYEDFLEYHDVRVVLDFI"

[gene](https://www.ncbi.nlm.nih.gov/nuccore/OP579158.1?from=28202&to=29452) 28202..29452

/gene="N"

[CDS](https://www.ncbi.nlm.nih.gov/nuccore/OP579158.1?from=28202&to=29452) 28202..29452

/gene="N"

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/translation="MSDNGPQNQRNALRITFGGPSDSTGSNQNGGARSKQRRPQGLPN

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GTTLPKGFYAEGSRGGSQASSRSSSRSRNSSRNSTPGSSKRTSPARMAGNGGDAALAL

LLLDRLNQLESKMSGKGQQQQGQTVTKKSAAEASKKPRQKRTATKAYNVTQAFGRRGP

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/gene="ORF10"

[CDS](https://www.ncbi.nlm.nih.gov/nuccore/OP579158.1?from=29477&to=29593) 29477..29593

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/codon\_start=1

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/protein\_id="[UXR16799.1](https://www.ncbi.nlm.nih.gov/protein/2312959416)"

/translation="MGYINVFAFPFTIYSLLLCRMNSRNYIAQVDVVNFNLT"

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/OP579158.1?from=29528&to=29563) 29528..29563

/gene="ORF10"

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

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/OP579158.1?from=29548&to=29576) 29548..29576

/gene="ORF10"

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

[stem\_loop](https://www.ncbi.nlm.nih.gov/nuccore/OP579158.1?from=29647&to=29652) 29647..>29652

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

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