

Recuperación de la información: Práctica con Gquery



Buscar información

- La búsqueda se hace en las bases de datos del NCBI:
<http://www.ncbi.nlm.nih.gov/gquery>
- Como ejemplo, buscaremos información sobre el **Covid-19**.
- Esta es una nueva enfermedad causada por un nuevo virus del tipo coronavirus que se detectó por primera vez en Wuhan (China) a finales del 2019. Tiene unos síntomas similar a una neumonía. Encontrará mucha información en la wikipedia en [anglès](#).

Página inicial de Gquery, sección Databases

NCBI Databases

Literature

The World's largest repository of medical and scientific abstracts, full-text articles, books and reports

Bookshelf

Books and reports

MeSH

Ontology used for PubMed indexing

NLM Catalog

Books, journals and more in the NLM Collections

PubMed

Scientific and medical abstracts/citations

PubMed Central

Full-text journal articles

Genes

Gene sequences and annotations used as references for the study of orthologs structure, expression, and evolution

Gene

Collected information about gene loci

GEO DataSets

Functional genomics studies

GEO Profiles

Gene expression and molecular abundance profiles

HomoloGene

Homologous genes sets for selected organisms

PopSet

Sequence sets from phylogenetic and population studies

Proteins

Protein sequences, 3-D structures, and tools for the study of functional protein domains and active sites

Conserved Domains

Conserved protein domains

Identical Protein Groups

Protein sequences grouped by identity

Protein

Protein sequences

Protein Clusters

Sequence similarity-based protein clusters

Sparcle

Functional categorization of proteins by domain architecture

Structure

Experimentally-determined biomolecular structures

Genomes

Genome sequence assemblies, large-scale functional genomics data, and source biological samples

Assembly

Genome assembly information

BioCollections

Museum, herbaria, and other biorepository collections

BioProject

Biological projects providing data to NCBI

BioSample

Descriptions of biological source materials

Genome

Genome sequencing projects by organism

Nucleotide

DNA and RNA sequences

Probe

Sequence-based probes and primers

SRA

High-throughput sequence reads

Taxonomy

Taxonomic classification and nomenclature

Genetics

Heritable DNA variations, associations with human pathologies, and clinical diagnostics and treatments

ClinVar

Human variations of clinical significance

dbGaP

Genotype/phenotype interaction studies

dbSNP

Short genetic variations

dbVar

Genome structural variation studies

GTR

Genetic testing registry

MedGen

Medical genetics literature and links

OMIM

Online mendelian inheritance in man

Chemicals

Repository of chemical information, molecular pathways, and tools for bioactivity screening

BioSystems

Molecular pathways with links to genes, proteins and chemicals

PubChem BioAssay

Bioactivity screening studies

PubChem Compound

Chemical information with structures, information and links

PubChem Substance

Deposited substance and chemical information

Acceso directo a la [página web](#).

Covid-19

Busqueda general en les bases de datos del NCBI.

DISEASE OUTBREAK

Novel Coronavirus (2019-nCoV), Wuhan, China

Wuhan seafood market pneumonia virus

Sequence data to support research and public health activities directed at the ongoing novel coronavirus (Wuhan coronavirus) outbreak. Find more outbreak information from the [CDC](#)

[PubMed](#)

[NCBI Virus](#)

[GenBank](#)

[BLAST](#)

•(Date: January-2020)

Results by database

Results found in 13 databases

Literature

Bookshelf	0
MeSH	1
NLM Catalog	0
PubMed	4
PubMed Central	0

Genes

Gene	12
GEO DataSets	0
GEO Profiles	0
HomoloGene	0
PopSet	2

Proteins

Conserved Domains	0
Identical Protein Groups	59
Protein	316
Protein Clusters	0
Sparcle	0
Structure	0

Genomes

Assembly	15
BioCollections	0
BioProject	4
BioSample	6
Genome	1
Nucleotide	50
Probe	0
SRA	3
Taxonomy	1

Genetics

ClinVar	0
dbGaP	0
dbSNP	0
dbVar	0
GTR	0
MedGen	0
OMIM	0

Chemicals

BioSystems	0
PubChem BioAssay	0
PubChem Compound	0
PubChem Substance	0

Covid-19: Información general

Indica para cada una de las bases de datos el número de registros con "Wuhan seafood market pneumonia virus" en cualquier campo

- MeSH 1
- PubMed 4
- Gene 12
- ...
- Genome 1

(Date: January-2020)

Se puede entrar en algunas de estas bases de datos para ver su contenido

COVID-19 [Supplementary Concept]

A viral disorder characterized by high FEVER; COUGH; DYSPNEA; renal dysfunction and other symptoms of a VIRAL PNEUMONIA. A coronavirus SARS-CoV-2 in the genus BETACORONAVIRUS is the suspected agent.

Date introduced: February 13, 2020

PubMed search builder options

- ☐ Restrict to MeSH Major Topic.
- ☐ Do not include MeSH terms found below this term in the MeSH hierarchy.

MeSH Unique ID: C000657245

Heading Mapped to:

- [Pneumonia, Viral](#)
- [Coronavirus Infections](#)
- [Pandemics](#)

Entry Terms:

- 2019 novel coronavirus disease
- COVID19
- COVID-19 pandemic
- SARS-CoV-2 infection
- COVID-19 virus disease
- 2019 novel coronavirus infection
- 2019-nCoV infection
- coronavirus disease 2019
- coronavirus disease-19
- 2019-nCoV disease
- COVID-19 virus infection

[All MeSH Categories](#)

COVID-19

PubMed

Format: Summary ▾ Sort by: Most Recent ▾ Per page: 20 ▾

Send to ▾

Filters: [Manage Filters](#)

Best matches for covid-19:

[The epidemiology and pathogenesis of coronavirus disease \(COVID-19\) outbreak.](#)

Rothan HA et al. J Autoimmun. (2020)

[Perspectives on monoclonal antibody therapy as potential therapeutic intervention for Coronavirus disease-19 \(COVID-19\).](#)

Shanmugaraj B et al. Asian Pac J Allergy Immunol. (2020)

[A Review of Coronavirus Disease-2019 \(COVID-19\).](#)

Singhal T et al. Indian J Pediatr. (2020)

[Switch to our new best match sort order](#)

Sort by:

[Best match](#)

Most recent

Results by year

2009: 0

[Download CSV](#)

Search results

Items: 1 to 20 of 4585

<< First < Prev Page 1 of 230 Next > Last >>

☐ [The Royal College of Pathologists of Australasia \(RCPA\) position statement on COVID-19.](#)

1. Bastian I, Waring L.
Aust J Gen Pract. 2020 Apr 15;49. doi: 10.31128/AJGP-COVID-09. [Epub ahead of print]
PMID: 32294808
[Similar articles](#)

☐ [Hydroxychloroquine use during the COVID-19 pandemic 2020.](#)

2. Mack HG.
Aust J Gen Pract. 2020 Apr 14;49. doi: 10.31128/AJGP-COVID-08. [Epub ahead of print]
PMID: 32294807
[Similar articles](#)

☐ [A Clinical Study of Noninvasive Assessment of Lung Lesions in Patients with Coronavirus Disease-19 \(COVID-19\) by Bedside Ultrasound.](#)

Lu W, Zhang S, Chen B, Chen J, Xian J, Lin Y, Shan H, Su ZZ.

Related searches

coronavirus covid-19

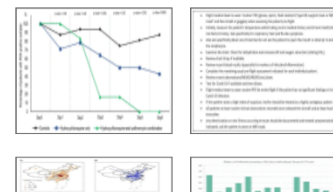
covid-19 treatment

chloroquine covid-19

covid-19 pregnancy

covid-19 children

PMC Images search for covid-19



Gene

Search results



Items: 1 to 20 of 28

<< First < Prev Page 1 of 2 Next > Last >>

 See also 10 discontinued or replaced items.

Name/Gene ID	Description	Location	Aliases	MIM
<input type="checkbox"/> S ID: 43740568	surface glycoprotein [<i>Severe acute respiratory syndrome coronavirus 2</i>]	NC_045512.2 (21563..25384)	GU280_gp02, spike glycoprotein	
<input type="checkbox"/> NEWENTRY ID: 43562271	Record to support submission of GeneRIFs for a gene not in Gene (COVID-19; COVID-19 virus; COVID19; HCoV-19; Human coronavirus 2019; SARS-2; SARS-CoV-2; SARS2; Wuhan coronavirus; Wuhan seafood market pneumonia virus). [<i>Severe acute respiratory syndrome coronavirus 2</i>]			
<input type="checkbox"/> ORF1ab ID: 43740578	ORF1a polyprotein;ORF1ab polyprotein [<i>Severe acute respiratory syndrome coronavirus 2</i>]	NC_045512.2 (266..21555)	GU280_gp01	
<input type="checkbox"/> ORF8 ID: 43740577	ORF8 protein [<i>Severe acute respiratory syndrome coronavirus 2</i>]	NC_045512.2 (27894..28259)	GU280_gp09	
<input type="checkbox"/> ORF10 ID: 43740576	ORF10 protein [<i>Severe acute respiratory syndrome coronavirus 2</i>]	NC_045512.2 (29558..29674)	GU280_gp11	
<input type="checkbox"/> N ID: 43740575	nucleocapsid phosphoprotein [<i>Severe acute respiratory syndrome coronavirus 2</i>]	NC_045512.2 (28274..29533)	GU280_gp10	
<input type="checkbox"/> ORF7a ID: 43740573	ORF7a protein [<i>Severe acute respiratory syndrome coronavirus 2</i>]	NC_045512.2 (27394..27759)	GU280_gp07	
<input type="checkbox"/> ORF6 ID: 43740572	ORF6 protein [<i>Severe acute respiratory syndrome coronavirus 2</i>]	NC_045512.2 (27202..27387)	GU280_gp06	

Taxonomy

Taxonomy
Browser

EntrezPubMedNucleotideProteinGenomeStructurePMCTaxonomyBioCollections

Search for as complete name ☐ lock

Display levels using filter:

Severe acute respiratory syndrome coronavirus 2

Taxonomy ID: 2697049 (for references in articles please use NCBI:txid2697049)


current name


Severe acute respiratory syndrome coronavirus 2
genbank acronym: SARS-CoV2
equivalent: ☐ 2019-nCoV
COVID-19
COVID-19 virus
SARS-CoV-2
SARS2
Wuhan coronavirus
Wuhan seafood market pneumonia virus
Human coronavirus 2019
COVID19
HCoV-19
SARS-2

NCBI BLAST name: **viruses**
Rank: **no rank**
Genetic code: [Translation table 1 \(Standard\)](#)
Host: human|vertebrates

[Lineage \(full\)](#)
Viruses; Riboviria; Nidovirales; Cornidovirineae; Coronaviridae; Orthocoronavirinae; Betacoronavirus; Sarbecovirus; Severe acute respiratory syndrome-related coronavirus

Comments and References:

 [Latest 2019-nCoV sequences available in GenBank](#)


 [NCBI virus resource](#)

Entrez records	
Database name	Direct links
Nucleotide	616
Protein	9,240
Structure	110
Genome	1
Popset	27
PubMed Central	49
Gene	22
SRA Experiments	914
Identical Protein Groups	612
Bio Project	35
Bio Sample	879
Assembly	95
Taxonomy	1

Protein

Items: 1 to 20 of 9259

<< First < Prev Page 1 of 463 Next > Last >>

 MATCHM: a tool for
factor binding sites i

 MATCH: A tool for s
factor binding sites i

- ☐ [Chain A, Main protease](#)
1. 306 aa protein
Accession: 6W63_A GI: 1824676363
[Taxonomy](#)
[GenPept](#) [Identical Proteins](#) [FASTA](#) [Graphics](#)

- ☐ [Chain A, Non-structural polyprotein 1ab](#)
2. 306 aa protein
Accession: 6Y84_A GI: 1820436239
[Taxonomy](#)
[GenPept](#) [Identical Proteins](#) [FASTA](#) [Graphics](#)

- ☐ [Chain A, SARS-CoV-2 main protease](#)
3. 306 aa protein
Accession: 6M03_A GI: 1820435677
[Taxonomy](#)
[GenPept](#) [Identical Proteins](#) [FASTA](#) [Graphics](#)

- ☐ [Chain A, SARS-CoV-2 main protease](#)
4. 306 aa protein
Accession: 5R84_A GI: 1820435391
[Taxonomy](#)
[GenPept](#) [Identical Proteins](#) [FASTA](#) [Graphics](#)

- ☐ [Chain A, SARS-CoV-2 main protease](#)
5. 306 aa protein
Accession: 5R82_A GI: 1820435389
[Taxonomy](#)
[GenPept](#) [Identical Proteins](#) [FASTA](#) [Graphics](#)

Genbank

GenBank

GenBank ▾ Submit ▾ Genomes ▾ WGS ▾ Metagenomes ▾ TPA ▾ TSA ▾ INSDC ▾ Other ▾

SARS-CoV-2 (Severe acute respiratory syndrome coronavirus 2) Sequences

The tables below list the SARS-CoV-2 sequences currently available in GenBank and the Sequence Read Archive (SRA).

The sequence lists were last updated Tuesday Feb 11 07:40 2020 EST, and are updated as additional sequences are released. The table content is available for [download](#).

Table of Contents

- [Submit Sequence Data](#)
- [PubMed Articles](#)
- [ClinicalTrials.gov](#)
- [Nucleotide Sequences](#)
- [SRA Sequences](#)
- [Reference Genome](#)
- [Other Resources](#)

Submit Sequence Data

Submit your SARS-CoV-2 sequence data to [GenBank](#).

PubMed Articles

[Articles in PubMed](#)

ClinicalTrials.gov

[View clinical studies](#) listed on ClinicalTrials.gov.

Nucleotide Sequences

You can view and download these 53 GenBank sequences and 1 RefSeq sequence in [Entrez Nucleotide](#) and the new [NCBI Virus](#) resource.

[BLAST against Betacoronavirus sequences](#)

GenBank ▲	RefSeq ▼	Gene Region ↕	Collection Date ↕	Locality ↕
MN908947	NC_045512	complete	Dec-2019	China
LC521925		complete	Jan-2020	Japan
LC522350		RdRP	26-Jan-2020	Philippines
LR757995		complete	05-Jan-2020	China: Wuhan
LR757996		complete	01-Jan-2020	China: Wuhan
LR757997		complete, gapped	31-Dec-2019	China: Wuhan
LR757998		complete	26-Dec-2019	China: Wuhan
MN938384		complete	10-Jan-2020	China: Shenzhen

Complete genome

RefSeq: NC_045512

Nucleotide [Advanced](#) [Help](#)

GenBank [Send to:](#)

Wuhan seafood market pneumonia virus isolate Wuhan-Hu-1, complete genome

NCBI Reference Sequence: NC_045512.2

[FASTA](#) [Graphics](#)

[Go to:](#)

LOCUS NC_045512 29903 bp ss-RNA linear VRL 28-JAN-2020

DEFINITION Wuhan seafood market pneumonia virus isolate Wuhan-Hu-1, complete genome.

ACCESSION NC_045512

VERSION NC_045512.2

DBLINK BioProject: [PRJNA485481](#)

KEYWORDS RefSeq.

SOURCE Wuhan seafood market pneumonia virus

ORGANISM [Wuhan seafood market pneumonia virus](#)
Viruses; Riboviria; Nidovirales; Coronaviridae; Orthocoronavirinae; Betacoronavirus; unclassified Betacoronavirus.

REFERENCE 1 (bases 1 to 29903)

AUTHORS Wu, F., Zhao, S., Yu, B., Chen, Y.-M., Wang, W., Hu, Y., Song, Z.-G., Tao, Z.-W., Tian, J.-H., Pei, Y.-Y., Yuan, M. L., Zhang, Y.-L., Dai, F.-H., Liu, Y., Wang, Q.-M., Zheng, J.-J., Xu, L., Holmes, E. C. and Zhang, Y.-Z.

TITLE A novel coronavirus associated with a respiratory disease in Wuhan of Hubei province, China

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 29903)

CONSTRM NCBI Genome Project

TITLE Direct Submission

JOURNAL Submitted (17-JAN-2020) National Center for Biotechnology Information, NIH, Bethesda, MD 20894, USA

REFERENCE 3 (bases 1 to 29903)

AUTHORS Wu, F., Zhao, S., Yu, B., Chen, Y.-M., Wang, W., Hu, Y., Song, Z.-G., Tao, Z.-W., Tian, J.-H., Pei, Y.-Y., Yuan, M. L., Zhang, Y.-L., Dai, F.-H., Liu, Y., Wang, Q.-M., Zheng, J.-J., Xu, L., Holmes, E. C. and Zhang, Y.-Z.

TITLE Direct Submission

JOURNAL Submitted (05-JAN-2020) Shanghai Public Health Clinical Center & School of Public Health, Fudan University, Shanghai, China

COMMENT REVIEWED [REFSEQ](#): This record has been curated by NCBI staff. The reference sequence is identical to [MN908947](#).
On Jan 17, 2020 this sequence version replaced [NC_045512.1](#).
Annotation was added using homology to SARSr-CoV NC_004718.3. If you have questions or suggestions, please email us at info@ncbi.nlm.nih.gov and include the accession number NC_045512.##Find all other Wuhan seafood market pneumonia virus (2019-nCoV) sequences at <https://www.ncbi.nlm.nih.gov/genbank/2019-ncov-seqs/>

Analyze this sequence

[Run BLAST](#)

[Pick Primers](#)

[Highlight Sequence Features](#)

[Find in this Sequence](#)

SARS Coronavirus Resource

Retrieve, view, and download SARS coronavirus genomic and protein sequences.

Related information

[Assembly](#)

[BioProject](#)

[Protein](#)

[Taxonomy](#)

[Gene](#)

[Identical GenBank Sequence](#)

[Mature Peptides](#)

[Other INSDC Genome Sequences](#)

LinkOut to external resources

[Order orf1ab cDNA clone/Protein /Antibody/RNAi](#) [\[OriGene\]](#)

[Order S cDNA clone/Protein/Antibody/RNAi](#) [\[OriGene\]](#)

[Order ORF8 cDNA clone/Protein/Antibody/RNAi](#) [\[OriGene\]](#)

Recent activity

Genome Features

- ¿El genoma es de RNA/DNA/ ...?
- ¿Cuál es su longitud?
- ¿Cuántas proteínas codifica este genoma?
- ¿Cuál es el nombre del gen que codifica la primera proteína?
- ¿Cuál es el segmento del genoma que corresponde ha este primer gen? ¿Qué longitud tiene?
- ¿Cuál es el nombre de la primera proteína? ¿Qué longitud tiene?

Genome Features

FEATURES	Location/Qualifiers
source	1..29903 /organism="Wuhan seafood market pneumonia virus" /mol_type="genomic RNA" /isolate="Wuhan-Hu-1" /host="Homo sapiens" /db_xref="taxon:2697049" /country="China" /collection_date="Dec-2019"
5'UTR gene	1..265 266..21555 /gene="orf1ab" /locus_tag="GU280_gp01" /db_xref="GeneID:43740578"
CDS	join(266..13468,13468..21555) /gene="orf1ab" /locus_tag="GU280_gp01" /ribosomal_slippage /note="pp1ab; translated by -1 ribosomal frameshift" /codon_start=1 /product="orf1ab polyprotein" /protein_id="YP_009724389.1" /db_xref="GeneID:43740578" /translation="MESLVPGFNEKTHVQLSLFVLQVRDVLVRGFGDSVEEVLSEARQ HLKDGTCGLVEVEKGVLPQLEQPYVFIKRS DARTAPHGHVMVELVAELEGIQYGRSGE TLGVLPVHVG EIPVAYRKVLLRKNGNKGAGGHSYGADLKSFDLGDELGTD PVEDFQEN WNTKHSSGV TRELMRELNGGAYTRYVDNNFCGPDGYPLECIKDLLARAGKASCTLSEQ LDFIDTKRGVYCCREHEHEIAWYTERSEKSYELQTPFEIKLAKKFDTFNGECPNFVFP LNSIIKTIQPRVEKKKLDGFMGRIRSVYPVASPNECNQMCLSTLMKCDHCGETSWQTG DFVKATCEFCGTENLTKEGATTCGYLPQNAVVKIYCPACHNSEVSGPEHSLAEYHNESG LKTILRKGGRTIAFGGCVFSYVGCHNKCAYWVPRASANIGCNHTGVVGESEGLNDNL LEILQKEKVNINIVGDFKLNEEIAIILASFSASTSAFVETVKGLDYKAFKQIVESC GN FKVTKGKAKKGAWNIGE QKSILSPLYAFASEAARVRSIFSR TLETAQNSVRVLQKAA ITILDGISQYSLRLIDAMMFTSDLATNNLVVMAYITGGVVQLTSQWLNTNIFGTVYEKL KPVLDWLEEKFKEGVEFLRDGWEIVKFISTCACEIVGGQIVTCAKEIKESVQITFFKL V NKFLALCADSIIIGGAKLKALNLGETFVTHSKGLYRKCVKSREETGLLMPLKAPKEII FLEGETLPTPEVLTEEVLTKTGDLQPLEQPTSEAVEAPLVGTPVCINGLMMLLEIKDTEK YCALAPNMVMVTNNTFTLKGGAPTKVTFGDDTVIEVQGYKSVNITFELDERIDKVLNEK CSAYTVELGTEVNEFACVVADAVIKTLQPVSELLTPLGIDLDDEWSMATYYLFDESGEF KLASHMYCSFYPPDEDEEEGDCEEEEFEPSTQYEGTDDYQGKPLEFGATSAAALQPE EEQEEDWLDDDSQQTIVGQQDGSSEDNQTTTIQTIIVEVQPQLEMELTPVVQTI EVNSFSG YKLTDNVYIKNADIVEEAKKVKPTVVVNAANVYLKHGGGVAGALNKATNNAMQVESD DYIATNGPLKVGGS CVLSGHNLAKHCHLVVGPVNKGEDIQLLKSAYENFNQHEVLLA PLLSAGIFGADPIHSLRVCVDTVRIN VYLA VFDKNLYDKLVSSFLEMKSEKQVEQKIA EIPKEEVKPFITESKPSVEQRKQDDKKIKACVEEVTTILEETKFLTENLLLYIDINGN LHPDSATLVSDIDITFLKKDAPYIVGDV VQEGVLTAVVPTPKAGGTTEMLAKALRKV PTDNYITTYPGQGLNGYTVEEAKTVLKKCKSAFYILPSIISNEKQEILGTVSWNLREM LAHAEETRKLMPVCVETKAIVSTIQRKYKGIKIQEGVV DYGARFYFYTSKTTVASLIN TLNDLNETLVTMPLGYVTHGLNLEEAARYMRSLKVPATVSVSSPDAVTAYNGYLTSSS KTP EEHF IETISLAGSYKDWSYSGQSTQLGIEFLKRGDKSVYYT SNPTTFHLDGEVIT FDNLKTL LSLREVRTIKVFTITVDNINLHTQVVDMSMTYGGQFGPTYLDGADVTKIKPH NSHEGKTFYVLPND DTLRVEAFEYYHTIDPSFLGRYMSALNHTKKWKYPQVNGLTSIK WADNNCYLATALLTLQQIELKFNPPALQDAYRRARAGEAANFCALILAYCNKTVGELG DVRETM SYL FQHANLDSCKRVLN VVCKTCGQQQTTLKGVEAVMYMGTL SYEQFKKGVQ IPCTCGKQATKYL VQQESPFVMMSAPPAQYELKHGTFTCASEYTGNYQC GHYKHITSK ETIYGTDCALITKSSRYKCDITNIEVYEMSVETETKPEVYK DQKICTETDDYI DNVV

Genome Features

- Selección de las bases que corresponden al primer CDS
- Descargar el genoma completo en formato fasta

FASTA ▾ Send to: ▾ Change region shown ▾

Wuhan seafood market pneumonia virus isolate Wuhan-Hu-1, complete genome

NCBI Reference Sequence: NC_045512.2

[GenBank](#) [Graphics](#)

>NC_045512.2 Wuhan seafood market pneumonia virus isolate Wuhan-Hu-1, complete genome

```
ATTAAAGGTTTATACCTTCCAGGTAACAAACCAACCACTTTGATCTCTTGTAGATCTGTTCTCTAAA
CGAACITTTAAATCTGTGTGGCTGTCACCTCGGCTGCATGCTTAGTGCACTCACGCAGTATAATTAATAAC
TAATTACTGTCTGTTGACAGGACACGAGTAACCTGCTCTATCTTCTGCAGGCTGCTTACGGTTTCGTCCGTG
TTGCAGCCGATCATCAGCACATCTAGGTTTCGICCGGGTGTGACCGAAAGGTAAGATGGAGAGCCTTGTC
CCTGGTTTCAACGAGAAAACACACGTCCTCAACTCAGTTTGCTGTTTTACAGGTTTCGCGACGTGCTCGTAC
GTGGCTTTGGAGACTCCGTGGAGGAGGTCTTATCAGAGGCACGTCAACATCTTAAAGATGGCACTTGTGG
CTTAGTAGAAGTTGAAAAAGCGTTTTGCTCAACTGAACAGCCCTATGTGTTTCATCAAACGTTCCGAT
GCTCGAACTGCACCTCATGGTCATGTTATGGTTGAGCTGGTAGCAGAACTCGAAGGCATTTCAGTACGGTC
GTAGTGGTGAGACACTTGGTGTCCTTGTCCTCATGTGGGCGAAATACCAGTGGCTTACCGCAAGGTTCT
TCTTCGTAAGAACGGTAATAAAGGAGCTGGTGGCCATAGTTACGGCGCCGATCTAAAGTCAITTGACTTA
GGCGACGAGCTTGGCACTGATCCTTATGAAGATTTTCAAGAAAACCTGGAACACTAAACATAGCAGTGGTG
TTACCCGTGAACTCATGCGTGAGCTTAACGGAGGGGCATACACTCGCTATGTCGATAACAACCTTCTGTGG
CCCTGATGGCTACCTCTTGAGTGCAATTAAGACCTTCTAGCACGTGCTGGTAAAGCTTCATGCACITTTG
TCCGAACAACCTGGACTTTATTGACACTAAGAGGGGTGTATACTGCTGCCGTGAACATGAGCATGAAATTG
CTTGGTACACGGAACGTTCTGAAAAGAGCTATGAATTGCAGACACCTTTTGAATTAATTTGGCAAAGAA
ATTTGACACCTTCAATGGGGAATGTCCAAATTTGTATTTCCCTTAAATTCATAATCAAGACTATTCAA
CCAAGGGTTGAAAAAGAAAGCTTGATGGCTTTATGGGTAGAATTTCGATCTGTCTATCCAGTTGCGTCAC
-----
```

Customize view ▾

Analyze this sequence ▴

[Run BLAST](#)

[Pick Primers](#)

[Highlight Sequence Features](#)

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SARS Coronavirus Resource ▴

Retrieve, view, and download SARS coronavirus genomic and protein sequences.

Related information ▴

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Genome Features

- Selección del registro de la primera proteína: orflab polyprotein (YP_009724389)

Protein

Protein

Search

Advanced

Help

GenPept

Send to:

Change region shown

Customize view

orf1ab polyprotein [Wuhan seafood market pneumonia virus]

NCBI Reference Sequence: YP_009724389.1

[Identical Proteins](#) [FASTA](#) [Graphics](#)

Go to:

LOCUS

DEFINITION

ACCESSION

VERSION

DBLINK

DBSOURCE

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

REFERENCE

YP_009724389

7096 aa

linear

VRL 28-JAN-2020

orf1ab polyprotein [Wuhan seafood market pneumonia virus].

YP_009724389

YP_009724389.1

BioProject: [PRJNA485481](#)

REFSEQ: accession [NC 045512.2](#)

RefSeq.

Wuhan seafood market pneumonia virus

[Wuhan seafood market pneumonia virus](#)

Viruses; Riboviria; Nidovirales; Coronavirineae; Coronaviridae; Orthocoronavirinae; Betacoronavirus; unclassified Betacoronavirus.

1 (residues 1 to 7096)

Wu, F., Zhao, S., Yu, B., Chen, Y.-M., Wang, W., Hu, Y., Song, Z.-G., Tao, Z.-W., Tian, J.-H., Pei, Y.-Y., Yuan, M. L., Zhang, Y.-L., Dai, F.-H., Liu, Y., Wang, Q.-M., Zheng, J.-J., Xu, L., Holmes, E. C. and Zhang, Y.-Z.

A novel coronavirus associated with a respiratory disease in Wuhan of Hubei province, China

Unpublished

2 (residues 1 to 7096)

Analyze this sequence

Run BLAST

Identify Conserved Domains

Highlight Sequence Features

Find in this Sequence

SARS Coronavirus Resource

Retrieve, view, and download SARS coronavirus genomic and protein sequences.

Reference sequence information

RefSeq protein isoforms

See 18 reference sequence protein isoforms for the orf1ab gene.

More about the gene

Genome Features

- Descargar la proteína en formato fasta

FASTA ▾

orf1ab polyprotein [Wuhan seafood market pneumonia virus]

NCBI Reference Sequence: YP_009724389.1

[GenPept](#) [Identical Proteins](#) [Graphics](#)

```
>YP_009724389.1 orf1ab polyprotein [Wuhan seafood market pneumonia virus]
MESLVPGFNEKTHVQLSLPVLQVRDVLVRGFGDSVEEVLSERQHLKDGTCGLVEVEKGVLPQLEQPYVF
IKRSDARTAPHGHVMVELVAELEGIQYGRSGETLGLVPHVGEIPVAYRKVLLRRKNGKAGGHSYGADL
KSFDLGDELGTDPYEDFQENWNKHSVGTRELMRELNGGAYTRYVDNNFCGPDGYPLECIKDLLARAGK
ASCTLSEQLDFIDTKRGVYCCREHEHEIAWYTERSEKSYELQTPFEIKLAKKFDTFNGECPNFVFPPLNSI
IKTIQPRVEKKKLDGFMGRIRSVYPVSPNECNQMCLSTLMKCDHCGETSWQGTGDFVKATCEFCGTENLT
KEGATTCGYLPQNAVVKIYCPACHNSEVGPEHSLAEYHNESGLKTIILRKGGRTIAFGGCVFSYVGCHNKC
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VKGLDYKAFKQIVESCNGFKVTGKAKKGAWNIGEQKSILSPYAFASEAARVRSIFSRTILETAQNSVR
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SGEFKLASHMYCSFYPPDEDEEEGDCEEEFEFSTQYEGTEDDYQGKPLEFGATSAALQPEEEQEDWL
DDDSQQTVGQDGSQEDNQTTTIQTIVVQBPQLEMELTPVVQTIENVNSFGYLKLTDNVYIKNADIVEEAK
KVKPTVVVNAANVYLKHGGGVAGALNKATNNAMQVESDDYIATNGPLKVGSCVLSGHNLAHCHLVVGP
NVNKGEDIQLKSAYENFNQHEVLLAPLLSAGIFGADPIHSLRVCVDTVRTNVYLAVFDKNLYDKLVSSF
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GNIHPDSATLVSDIDITFLKKNAPYVUGDWWVQGVLTAVVITPKKAGGTETMLAKALRKVPTDNVYITTP
```

Activitats

- Ejecutar el programa **Biostring_Covid-19.R** asociado al coronavirus de Covid-19.
- Task: **Sequence analysis 3: Biostring functions**
 - Reconocer que partes del código anterior son parámetros que pueden variar en otra ejecución similar.
 - Realizar un informe dinámico que muestre y explique que se obtiene. Uno de los primeros “chunks” contendrá las asignaciones de las variables que sirven como parámetros.