**Transmissible gastroenteritis virus complete genome, genomic RNA**

NCBI Reference Sequence: NC_038861.1

FASTA Graphics

Go to:

LOCUS NC_038861 1149 bp RNA linear VRL 24-AUG-2018

DEFINITION Transmissible gastroenteritis virus complete genome, genomic RNA.

ACCESSION NC_038861 REGION: 26917..28065

VERSION NC_038861.1

DBLINK BioProject: PRJNA485481

KEYWORDS RefSeq; E gene; Envelope (E) protein; M gene; Membrane (M) protein; N gene; Non-structural Protein 3a; Non-structural protein 3b; Non-structural protein 7; nsp 3a gene; nsp 3b gene; nsp 7 gene; Nucleoprotein (N); ORF 1a/1b; ORF1a; S gene; Spike (S).

SOURCE Transmissible gastroenteritis virus

ORGANISM Transmissible gastroenteritis virus

Viruses; Riboviria; Orthornavirae; Pisuviricota; Pisoniviricetes; Nidovirales; Cornidovirineae; Coronaviridae; Orthocoronavirinae; Alphacoronavirus; Tegacovirus; Alphacoronavirus suis.

REFERENCE 1

AUTHORS Almazan,F., Gonzalez,J.M., Penzes,Z., Izeta,A., Calvo,E., Plana-Duran,J. and Enjuanes,L.

TITLE Engineering the largest RNA virus genome as an infectious bacterial artificial chromosome

JOURNAL Proc. Natl. Acad. Sci. U.S.A. 97 (10), 5516-5521 (2000)

PUBMED 10805807

REFERENCE 2 (bases 1 to 1149)

CONSRTM NCBI Genome Project

TITLE Direct Submission

JOURNAL Submitted (24-AUG-2018) National Center for Biotechnology Information, NIH, Bethesda, MD 20894, USA

REFERENCE 3 (bases 1 to 1149)

AUTHORS Enjuanes,L.

TITLE Direct Submission

JOURNAL Submitted (09-MAR-2001) Enjuanes L., Department of Molecular and Cell Biology, CNB, CSIC, Campus Universidad Autonoma, Cantoblanco, 28049 Madrid, SPAIN

REFERENCE 4

AUTHORS Enjuanes,L.

TITLE Direct Submission

JOURNAL Submitted (08-FEB-2000) Enjuanes L., Department of Molecular and Cell Biology, CNB, CSIC, Campus Universidad Autonoma, Cantoblanco, 28049 Madrid, SPAIN

REMARK revised by [3]

COMMENT PROVISIONAL REFSEQ: This record has not yet been subject to final

NCBI review. The reference sequence is identical to AJ271965.
COMPLETENESS: full length.

FEATURES Location/Qualifiers

source 1..1149
/organism="Transmissible gastroenteritis virus"
/mol_type="genomic RNA"
/strain="Purdue"
/isolate="PUR46-MAD"
/host="pig"
/db_xref="taxon:11149"
/geo_loc_name="USA:Indiana"
/note="Tissue culture adapted clone of the TGEV Purdue strain"

gene 1..1149
/gene="n"
/locus_tag="D1S95_gp8"
/db_xref="GeneID:37619357"

CDS 1..1149
/gene="n"
/locus_tag="D1S95_gp8"
/function="major structural protein"
/experiment="experimental evidence, no additional details recorded"
/codon_start=1
/product="nucleoprotein"
/protein_id="NP_058428.1"
/db_xref="GOA:P04134"
/db_xref="InterPro:IPR001218"
/db_xref="UniProtKB/Swiss-Prot:P04134"
/db_xref="GeneID:37619357"
/translation="MANQGQRVSWGDESTKTRGRSNSRGRKNNNIPLSFFNPITLQQG
SKFWNLCPRDFVPKGIGNRDQQIGYWNRQTRYRMVKGQRKELPERWFFYYLGTGPHAD
AKFKDKLDGVVWVAKDGAMNKPTTLGSRGANNESKALKFDGKVPGEFQLEVNQSRDNS
RSRSQSRSRSRNRSQSRGRQQFNNKKDDSVEQAVLAALKKLGVDTEKQQQRSRSKSKE
RSNSKTRDTTPKNENKHTWKRTAGKGDVTRFYGARSSSANFGDTDLVANGSSAKHYPQ
LAECVPSVSSILFGSYWTSKEDGDQIEVTFTHKYHLPKDDPKTGQFLQQINAYARPSE
VAKEQRKRKSRSKSAERSEQDVVPDALIENYTDVFDDTQVEIIDEVTN"

ORIGIN

```
      1 atggccaacc agggacaacg tgtcagttgg ggagatgaat ctaccaaaac acgtggtcgt
     61 tccaattccc gtggtcggaa gaataataac atacctcttt cattcttcaa ccccataacc
    121 ctccaacaag gttcaaaatt ttggaactta tgtccgagag actttgtacc caaaggaata
    181 ggtaacaggg atcaacagat tggttattgg aatagacaaa ctcgctatcg catggtgaag
    241 ggccaacgta aagagcttcc tgaaaggtgg ttcttctact acttaggtac tggacctcat
    301 gcagatgcca aatttaaaga taaattagat ggagttgtct gggttgccaa ggatggtgcc
```

```
 361 atgaacaaac caaccacgct tggtagtcgt ggtgctaata atgaatccaa agctttgaaa
 421 ttcgatggta aagtgccagg cgaatttcaa cttgaagtta atcaatcaag agacaattca
 481 aggtcacgct ctcaatctag atctcggtct agaaatagat ctcaatctag aggcaggcaa
 541 caattcaata acaagaagga tgacagtgta gaacaagctg ttcttgccgc acttaaaaag
 601 ttaggtgttg acacagaaaa acaacagcaa cgctctcgtt ctaaatctaa agaacgtagt
 661 aactctaaga caagagatac tacacctaag aatgaaaaca aacacacctg gaagagaact
 721 gcaggtaaag gtgatgtgac aagattttat ggagctagaa gcagttcagc caattttggt
 781 gacactgacc tcgttgccaa tgggagcagt gccaagcatt acccacaact ggctgaatgt
 841 gttccatctg tgtctagcat tctgtttgga agctattgga cttcaaagga agatggcgac
 901 cagatagaag tcacgttcac acacaaatac cacttgccaa aggatgatcc taagactgga
 961 caattccttc agcagattaa tgcctatgct cgtccatcag aagtggcaaa agaacagaga
1021 aaaagaaaat ctcgttctaa atctgcagaa aggtcagagc aagatgtggt acctgatgca
1081 ttaatagaaa attatacaga tgtgtttgat gacacacagg ttgagataat tgatgaggta
1141 acgaactaa
```