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Comparisons

Orthogroups
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Genome alignments

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Overview

Sequences

InterproScan

Homologs 527

Phylogenetic distribution

Pfam tree

TM tree

Region

RefSeq homologs 200

SwissProt homologs 39

Interactions

Phylogeny

Hydropathy plot

GC

General

Organism	Chlamydia trachomatis D/UW-3/CX
locus_tag	CT_495
gene	-
protein_id	AAC68096.1
Location	572375 - 573997 (strand: -1)
Length	1623 (nucleotides) / 541.0 (amino acids)

Download

fasta aa

fasta nucl

newick tree

MSA

Orthology

Orthogroup	group_33 (/locusx/group_33/True)
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Orthogroup size ⓘ	527	
N. genomes ⓘ	230	
COG ⓘ	COG3202: ATP/ADP translocase (C) (/fam/COG3202/cog)	Score +
KO ⓘ	K03301: TC.AAA, ATP:ADP antiporter, AAA family (/fam/K03301/ko)	Score +

T3SS effectors prediction: 0/4

ProtParams

Molecular Weight (kDa)	59.76
Isoelectric Point (pI)	9.39
Aromaticity	0.13
Instability Index ⓘ	38.98
Fractions helix/turn/sheet	42.96/21.85/28.7

Orthogroup group_33 Annotation

Comment orthogroup edit (/add_comment/CT_495)

 Download SVG (/assets/temp/tmpmjnk3_ll.svg)

 Download PNG

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Product

Product ADP/ATP Translocase

Uniprot Annotation

Accession O84502 [↗](https://www.uniprot.org/uniprot/O84502) (https://www.uniprot.org/uniprot/O84502)

Status Reviewed / Annotation Score: 2

gene tlcB

product ADP,ATP carrier protein 2

similarity Belongs to the ADP/ATP translocase tlc family.

TransporterClassification Database ?

TCDB Hit Q9X9D2 [↗](http://www.tcdb.org/search/result.php?acc=Q9X9D2) (http://www.tcdb.org/search/result.php?acc=Q9X9D2) NUCLEOSIDE TRIPHOSPHATE TRANSPORT PROTEIN 2 - . (Chlamydia trachomatis) **Score +**

SuperFamily 2.A [↗](http://tcdb.org/search/result.php?tc=2.A) (http://tcdb.org/search/result.php?tc=2.A) Porters (uniporters, symporters, antiporters)

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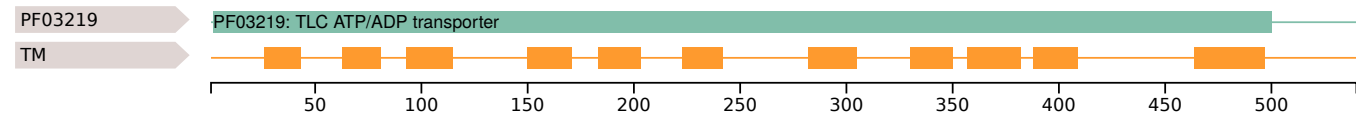
☰ Genome alignments

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Family	2.A.12 ↗ (http://tcdb.org/search/result.php?tc=2.A.12)	The ATP:ADP Antiporter (AAA) Family
Subfamily	2.A.12.1 ↗ (http://tcdb.org/search/result.php?tc=2.A.12.1)	-
Transporter	2.A.12.1.17 ↗ (http://tcdb.org/search/result.php?tc=2.A.12.1.17)	Nucleoside triphosphate:H+ symporter. Transports ATP, GTP, CTP and UTP (Tjaden et al. 1999).

Domains



Bacteria [?](#) Euk. [?](#) Archae [?](#) Virus [?](#)

PF: PF03219 TLC ATP/ADP transporter
(/fam/PF03219/pfam)[?](#)

IP: IPR004667 ADP/ATP carrier protein (/fam/IPR004667/interpro) ?	1311 (70.48%)	549 (29.52%)	0 (0.0%)	0 (0.0%)
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Pathway data (interpro)