

≡

Search >

Comparisons

Orthogroups
(/extract_orthogroup/)

COGs (/extract_cog/)

Pfam domains
(/extract_pfam/)

Interpro entries
(/extract_interpro/)

Kegg Orthologs
(/extract_ko/)

Genome alignments

Transporters >

Metabolism > >

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)

- ≡
- ≡ Search >
 - ≡ Comparisons
 - Orthogroups
(/extract_orthogroup/)
 - COGs (/extract_cog/)
 - Pfam domains
(/extract_pfam/)
 - Interpro entries
(/extract_interpro/)
 - Kegg Orthologs
(/extract_ko/)
 - ≡ Genome alignments
 - ≡ Transporters >
 - ≡ Metabolism > >

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

Search

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COGs (/extract_cog/)

Pfam domains

(/extract_pfam/)

Interpro entries

(/extract_interpro/)

Kegg Orthologs

(/extract_ko/)

Genome alignments

Transporters

Metabolism



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)

☰ Search ➤

☰ Comparisons

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(/extract_orthogroup/)

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(/extract_pfam/)

Interpro entries

(/extract_interpro/)

Kegg Orthologs

(/extract_ko/)

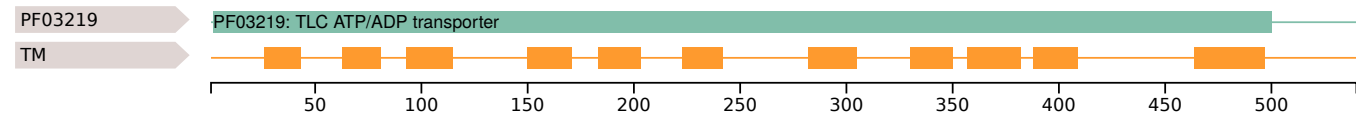
☰ Genome alignments

☰ Transporters ➤

☰ Metabolism ➤ ➤

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	1311	549	0 (0.0%)	0 (0.0%)
(/fam/IPR004667 /interpro) ?		(70.48%)	(29.52%)		

Pathway data (interpro)