

CYTH2 cDNA

Catalog Number: ATGD0292

PRODUCT INFORMATION

Catalog number

ATGD0292

Product type

cDNA

Species

Human

NCBI Accession No.

NP_004219.3

Alternative Names

ARNO, CTS18, CTS18.1, PSCD2, PSCD2L, SEC7L, Sec7p-L, Sec7p-like

mRNA Refseq

NM_004228.6

OMIM

602488

Chromosome location

19q13.33

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

1200bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted Nde I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

General Description

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CYTH2 is a member of the PSCD family. Members of this family have identical structural organization that consists of an N-terminal coiled-coil motif, a central Sec7 domain, and a C-terminal pleckstrin homology (PH) domain. The coiled-coil motif is involved in homodimerization, the Sec7 domain contains guanine-nucleotide exchange protein (GEP) activity, and the PH domain interacts with phospholipids and is responsible for association of PSCDs with membranes. Members of this family appear to mediate the regulation of protein sorting and membrane trafficking. The encoded protein exhibits GEP activity in vitro with ARF1, ARF3, and ARF6 and is 83% homologous to CYTH1. Two transcript variants encoding different isoforms have been found for this gene.

DATA

Sequence nucleotides

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ATGGAGGACGGCGTCTATGAACCCCCAGACCTGACTCCGGAGGAGCGGATGGAGCTGGAGAACATCCGGCGGCCGGAAGC
AGGAGCTGCTGGTGGAGATTGAGCGCCTGCGGGAGGAGCTCAGTGAAGCCATGAGCGAGGTGGAGGGGCTGGAGGCCAA
TGAGGGCAGTAAGACCTTGCAACGGAACCGGAAGATGGCAATGGGCAGGAAGAAGTTCAACATGGACCCCAAGAAGGGGA
TCCAGTTCTTGGTGGAGAATGAACTGCTGCAGAACACACCCGAGGAGATCGCCCGCTTCTGTACAAGGGCGAGGGGCTG
AACAAGACAGCCATCGGGGACTACCTGGGGGAGAGGGAAGAACTGAACCTGGCAGTGCTCCATGCTTTTGTGGATCTGCA
TGAGTTCACCGACCTCAATCTGGTGCAGGCCCTCAGGCAGTTTCTATGGAGCTTTCGCCTACCCGGAGAGGCCAGAAAAT
TGACCGGATGATGGAGGCCTTCGCCAGCGATACTGCCTGTGCAACCCTGGGGTTTTCCAGTCCACAGACACGTGCTATGT
GCTGTCCTTCGCCGTCATCATGCTCAACACCAGTCTCCACAATCCCAATGTCCGGGACAAGCCGGGCCTGGAGCGCTTTGT
GGCCATGAACCGGGGCATCAACGAGGGCGGGGACCTGCCTGAGGAGCTGCTCAGGAACCTGTACGACAGCATCCGAAATG
AGCCCTTCAAGATTCTGAGGATGACGGGAATGACCTGACCCACACCTTCTTCAACCCGGACCGGGAGGGCTGGCTCCTGA
AGCTGGGGGGCCGGGTGAAGACGTGGAAGCGGCGCTGGTTTATCCTCACAGACAACCTGCCTCTACTACTTTGAGTACACCA
CGGACAAGGAGCCCCGAGGAATCATCCCCCTGGAGAATCTGAGCATCCGAGAGGTGGACGACCCCCGAAACCGAACTGC
TTTGAACCTTACATCCCCAACAACAAGGGCAGCTCATCAAAGCCTGCAAACTGAGGCGGACGGCCGAGTGGTGGAGGG
AAACCACATGGTGTACCGGATCTCGCCCCCACGCAGGAGGAGAAGGACGAGTGGATCAAGTCCATCCAGGCGGCTGTGA
GTGTGGACCCCTTCTATGAGATGCTGGCAGCGAGAAAGAAGCGGATTTTCAGTCAAGAAGAAGCAGGAGCAGCCCTGA
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Transaction Sequence

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QFLVENELLQ NTPEEIARFL YKGEGLNKTA IGDYLGREEE LNLAVLHAFV DLHEFTDLNL VQALRQFLWS FRLPGEAQKI
DRMMEAFAQR YCLCNPGVFQ STDTCYVLSF AVIMLNTSLH NPNVRDKPGL ERFVAMNRGI NEGGDLPEEL LRNLYDSIRN
EPFKIPEDDG NDLTHTFFNP DREGWLLKLG GRVKTWKRRW FILTDNCLYY FEYTTDKPR GIIPLENLSI REVDDPRKPN
CFELYIPNNK GQLIKACKTE ADGRVVEGNH MUYRISAPTQ EEKDEWIKSI QAAVSVDPFY EMLAARKKRI SVKKKQEQP
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