

COTL1 cDNA

Catalog Number: ATGD0208

PRODUCT INFORMATION

Catalog number

ATGD0208

Product type

cDNA

Species

Human

NCBI Accession No.

NP_066972.1

Alternative Names

CLP

mRNA Refseq

NM_021149.3

OMIM

606748

Chromosome location

16q24.1

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

429bp

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 BamH 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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COTL1 encodes one of the numerous actin-binding proteins which regulate the actin cytoskeleton. This protein binds F-actin, and also interacts with 5-lipoxygenase, which is the first committed enzyme in leukotriene biosynthesis. Although COTL1 has been reported to map to chromosome 17 in the Smith-Magenis syndrome region, the best alignments for this gene are to chromosome 16. The Smith-Magenis syndrome region is the site of two related pseudogenes.

DATA

Sequence nucleotides

```
ATGGCCACCAAGATCGACAAAGAGGCTTGCCGGGCGGCGTACAACCTGGTGCGCGACGACGGCTCGGCCGTGTCATCTGGGT  
GACTTTTAAATATGACGGCTCCACCATCGTCCCCGGCGAGCAGGGAGCGGAGTACCAGCACTTCATCCAGCAGTGACACAGA  
TGACGTCCGGTTGTTTGCCTTCGTGCGCTTCACCACCGGGGATGCCATGAGCAAGAGGTCCAAGTTTGCCTCATCACGTG  
GATCGGTGAGAACGTCAGCGGGCTGCAGCGCGCCAAAACCGGGACGGACAAGACCCTGGTGAAGGAGGTCGTACAGAAT  
TTCGCTAAGGAGTTTGTGATCAGTGATCGGAAGGAGCTGGAGGAAGATTTTCATCAAGAGCGAGCTGAAGAAGGCGGGGGG  
AGCCAATTACGACGCCAGACGGAGTAA
```

Transaction Sequence

```
MATKIDKEAC RAYNLVRDD GSAVIWVTFK YDGSTIVPGE QGAEQHFIQ QCTDDVRLFAFVRFTTGDM SKRSKFALIT  
WIGENVSLQ RAKTGTDKTL VKEVVQNFAK EFVISDRKELEEDFIKSELK KAGGANYDAQ TE
```