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

ATGGCCACCAAGATCGACAAAGAGGCTTGCCGGGCGGCGTACAACCTGGTGCGCGACGACGGCTCGGCCGTCATCTGGGT
GACTTTTAAATATGACGGCTCCACCATCGTCCCCGGCGAGCAGGGAGCGGAGTACCAGCACTTCATCCAGCAGTGCACAGA
TGACGTCCGGTTGTTTGCCTTCGTGCGCTTCACCACCGGGGATGCCATGAGCAAGAGGTCCAAGTTTGCCCTCATCACGTG
GATCGGTGAGAACGTCAGCGGGCTGCAGCGCGCCAAAACCGGGACGGACAAGACCCTGGTGAAGGAGGTCGTACAGAAT
TTCGCTAAGGAGTTTGTGATCAGTGATCGGAAGGAGCTGGAGGAAGATTTCATCAAGAGCGAGCTGAAGAAGGCGGGGGG
AGCCAATTACGACGCCCAGACGGAGTAA

Transaction Sequence

MATKIDKEAC RAAYNLVRDD GSAVIWVTFK YDGSTIVPGE QGAEYQHFIQ QCTDDVRLFAFVRFTTGDAM SKRSKFALIT
WIGENVSGLQ RAKTGTDKTL VKEVVQNFAK EFVISDRKELEEDFIKSELK KAGGANYDAQ TE