

DCTN3 cDNA

Catalog Number: ATGD0344

PRODUCT INFORMATION

Catalog number

ATGD0344

Product type

cDNA

Species

Human

NCBI Accession No.

NP_009165.1

Alternative Names

DCTN-22, DCTN22

mRNA Refseq

NM_007234.4

OMIM

607387

Chromosome location

9p13

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

561bp

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 Hind III. 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

DCTN3 cDNA

Catalog Number: ATGD0344

DCTN3 encodes the smallest subunit of dynactin, a macromolecular complex consisting of 10 subunits ranging in size from 22 to 150 kD. Dynactin binds to both microtubules and cytoplasmic dynein. It is involved in a diverse array of cellular functions, including ER-to-Golgi transport, the centripetal movement of lysosomes and endosomes, spindle formation, cytokinesis, chromosome movement, nuclear positioning, and axonogenesis. This subunit, like most other dynactin subunits, exists only as a part of the dynactin complex. It is primarily an alpha-helical protein with very little coiled coil, and binds directly to the largest subunit (p150) of dynactin. Alternative splicing results in multiple transcript variants.

DATA

Sequence nucleotides

```
ATGGCGGGTCTGACTGACTTGCAGCGGCTACAGGCCCGAGTGGAAGAGCTGGAGCGCTGGGTGTACGGGCCGGGCGGGG
CGCGCGGCTCACGGAAGGTGGCTGACGGCCTGGTCAAGGTGCAGGTGGCTTTGGGGAACATTTCCAGCAAGAGGGAGAG
GGTGAAGATTCTCTACAAAAAGATTGAAGATCTGATCAAGTACCTGGATCCTGAGTACATCGACCGCATTGCCATACCTGAT
GCCTCTAAGCTGCAATTCATCCTAGCAGAGGAGCAGTTTATCCTTTCCAGGTTGCACTCCTGGAGCAGGTGAATGCCTTGG
TGCCCATGCTGGACAGTGCTCACATCAAAGCCGTTTCTGAGCATGCTGCCCGCCTGCAGCGCTTGGCCCAGATCCACATTC
AGCAGCAGGACCAGTGTGTGGAAATCACTGAGGAGTCCAAGGCTCTCCTGGAGGAATACAACAAGACTACAATGCTTCTCT
CCAAGCAATTCGTGCAGTGGGATGAGCTACTTTGCCAGCTAGAGGCCGCCACGCAAGTGAAGCCAGCAGAGGAGTGA
```

Transaction Sequence

```
MAGLTDLQRL QARVEELERW VYGPGGARGS RKVADGLVKV QVALGNISSK RERVKILYKK IEDLIKYLDP EYIDRIAIPD
ASKLQFILAE EQFILSQVAL LEQVNALVPM LDSAHIKAVP EHAARLQRLA QIHIQQDQC VEITEESKAL LEEYNKTTML
LSKQFVQWDE LLCQLEAATQ VKPAEE
```