

NXT1 cDNA

Catalog Number: ATGD0151

PRODUCT INFORMATION

Catalog number

ATGD0151

Product type

cDNA

Species

Human

NCBI Accession No.

NP_037380.1

Alternative Names

MTR2, P15

mRNA Refseq

NM_013248.2

OMIM

605811

Chromosome location

20p12-p11.2

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

423bp

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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NXT1 encoded by this gene is located in the nuclear envelope. NXT1 has protein similarity to nuclear transport factor 2. NXT1 functions as a nuclear export factor in both RAN (Ras-related nuclear protein) - and CRM1 (required for chromosome region maintenance) -dependent pathways. It is found to stimulate the export of U1 snRNA in RAN- and CRM1-dependent pathways and the export of tRNA and mRNA in a CRM1-independent pathway. The encoded protein heterodimerizes with Tap protein and may regulate the ability of Tap protein to mediate nuclear mRNA export. The use of alternate polyadenylation sites has been found for NXT1.

DATA

Sequence nucleotides

```
ATGGCATCTGTGGATTTCAAGACCTATGTGGATCAGGCCTGCAGAGCTGCTGAGGAGTTTGTCAATGTCTACTACACCACCA  
TGGATAAGCGGCGGCGCTTTGCTGTCCCGCCTGTACATGGGCACAGCCACCCTGGTCTGGAATGGCAATGCTGTTTCAGGAC  
AAGAATCCTTGAGTGAGTTTTTTGAAATGTTGCCTTCCAGCGAGTTCCAATCAGCGTGGTAGACTGCCAGCCTGTTCATGA  
TGAAGCCACACCAAGCCAGACCACGGTCCTTGTGTCATCTGTGGATCAGTGAAGTTTGAGGGGAACAAACAACGGGACTT  
CAACCAGAACTTCATCCTGACCGCCCAGGCCTCACCCAGCAACACAGTGTGGAAGATCGCAAGTGACTGCTTCCGCTTCCA  
GGACTGGGCCAGCTAG
```

Transaction Sequence

```
MASVDFKTYV DQACRAAEF VNVYYTTMDK RRRLLSRLYM GTATLVWNGN AVSGQESLSEFFEMLPSEF QISVVDQCPV  
HDEATPSQTT VLVVICGSVK FEGNKQRDFN QNFILTAQASPSNTVWKIAS DCFRFQDWAS
```