

## NXT1 cDNA

Catalog Number: ATGD0151

### PRODUCT INFORMATION

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**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

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**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**

**NXT1 cDNA**

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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**

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**Sequence nucleotides**

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

**Transaction Sequence**

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