

RAB7A cDNA

Catalog Number: ATGD0205

PRODUCT INFORMATION

Catalog number

ATGD0205

Product type

cDNA

Species

Human

NCBI Accession No.

NP_004628.4

Alternative Names

PRO2706, RAB7

mRNA Refseq

NM_004637.5

OMIM

602298

Chromosome location

3q21.3

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

624bp

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

RAB7A cDNA

Catalog Number: ATGD0205

RAB family members are small, RAS-related GTP-binding proteins that are important regulators of vesicular transport. Each RAB protein targets multiple proteins that act in exocytic / endocytic pathways. RAB7A encodes a RAB family member that regulates vesicle traffic in the late endosomes and also from late endosomes to lysosomes. This encoded RAB7A is also involved in the cellular vacuolation of the VacA cytotoxin of *Helicobacter pylori*. Mutations at highly conserved amino acid residues in RAB7A have caused some forms of Charcot-Marie-Tooth (CMT) type 2 neuropathies.

DATA

Sequence nucleotides

```
ATGACCTCTAGGAAGAAAGTGTGCTGAAGGTTATCATCCTGGGAGATTCTGGAGTCGGGAAGACATCACTCATGAACCAG
TATGTGAATAAGAAATTCAGCAATCAGTACAAAGCCACAATAGGAGCTGACTTTCTGACCAAGGAGGTGATGGTGGATGAC
AGGCTAGTCACAATGCAGATATGGGACACAGCAGGACAGGAACGGTTCAGTCTCTCGGTGTGGCCTTCTACAGAGGTGCA
GACTGCTGCGTTCTGGTATTTGATGTGACTGCCCCAACACATTCAAAACCCTAGATAGCTGGAGAGATGAGTTTCTCATCC
AGGCCAGTCCCCGAGATCCTGAAAACCTCCCATTTGTTGTGTTGGGAAACAAGATTGACCTCGAAAACAGACAAGTGGCCA
CAAAGCGGGCACAGGCCTGGTGCTACAGCAAAAACAACATTCCTACTTTGAGACCAGTGCCAAGGAGGCCATCAACGTGG
AGCAGGCGTTCCAGACGATTGCACGGAATGCACTTAAGCAGGAAACGGAGGTGGAGCTGTACAACGAATTCCTGAACCTA
TCAAACCTGGACAAGAATGACCGGGCCAAGGCCTCGGCAGAAAGCTGCAGTTGCTGA
```

Transaction Sequence

```
MTSRKKVLLK VIILGDSGVG KTSLMNQYVN KKFSNQYKAT IGADFLTKEV MVDDRLVTMQIWDTAGQERF QSLGVAFYRG
ADCCVLVFDV TAPNTFKTLD SWRDEFLIQA SPRDPENFPFVVLGNKIDLE NRQVATKRAQ AWCYSKNNIP YFETSAKEAI
NVEQAFQTIA RNALKQETEVELYNEFPEPI KLDKNDRAKA SAESCSC
```