

## RAB35 cDNA

Catalog Number: ATGD0207

### PRODUCT INFORMATION

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**Catalog number**

ATGD0207

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_006852.1

**Alternative Names**

H-ray, RAB1C, RAY

**mRNA Refseq**

NM\_006861.6

**OMIM**

604199

**Chromosome location**

12q24.31

### PRODUCT SPECIFICATION

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**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**

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The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different sets of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. That Rab is involved in the process of endocytosis and is an essential rate-limiting regulator of the fast recycling pathway back to the plasma membrane. During cytokinesis, required for the postfurling terminal steps, namely for intercellular bridge stability and abscission, possibly by controlling phosphatidylinositol 4, 5-bis phosphate (PIP2) and SEPT2 localization at the intercellular bridge. May indirectly regulate neurite outgrowth.

### DATA

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#### Sequence nucleotides

```
ATGGCCCCGGGACTACGACCACCTCTTCAAGCTGCTCATCATCGGCGACAGCGGTGTGGGCAAGAGCAGTTTACTGTTGCGT
TTTGCAGACAACACTTTCTCAGGCAGCTACATCACCACGATCGGAGTGGATTTCAAGATCCGGACCGTGGAGATCAACGGG
GAGAAGGTGAAGCTGCAGATCTGGGACACAGCGGGGCAGGAGCGCTTCCGCACCATCACCTCCACGTATTATCGGGGGAC
CCACGGGGTCAATTGTGGTTTACGACGTCACCAGTGCCGAGTCTTTGTCAACGTCAAGCGGTGGCTTCACGAAATCAACCA
GAACTGTGATGATGTGTGCCGAATATTAGTGGGTAATAAGAATGACGACCCTGAGCGGAAGGTGGTGGAGACGGAAGATG
CCTACAAATTCGCCGGGCAGATGGGCATCCAGTTGTTGAGACCAGCGCCAAGGAGAATGTCAACGTGGAAGAGATGTTCA
ACTGCATCACGGAGCTGGTCTCCGAGCAAAGAAAGACAACCTGGCAAACAGCAGCAGCAACAACAGAACGATGTGGTG
AAGCTCACGAAGAACAGTAAACGAAAGAAACGCTGCTGCTAA
```

#### Transaction Sequence

```
MARDYDHLFK LLIIGDSVVG KSSLLLRFAD NTFSGSYITT IGVDFKIRTV EINGEKVKLQIWDTAGQERF RTITSTYYRG
THGVIVVYDV TSAESFVNVK RWLHEINQNC DDVCRILVGNKNDDPERKVV ETEDAYKFAG QMGIQLFETS AKENVNVEEM
FNCITELVLR AKKDNLAKQQQQQNDVVKL TKNSKRKKRC C
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