

## RAB1A cDNA

Catalog Number: ATGD0204

### PRODUCT INFORMATION

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**Catalog number**

ATGD0204

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_004152.1

**Alternative Names**

RAB1, YPT1

**mRNA Refseq**

NM\_004161.4

**OMIM**

179508

**Chromosome location**

2p14

### PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

618bp

**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**

# RAB1A cDNA

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RAB1A encodes a member of the Ras superfamily of GTPases. Members of the gene family cycle between inactive GDP-bound and active GTP-bound forms. This small GTPase controls vesicle traffic from the endoplasmic reticulum to the Golgi apparatus. Multiple alternatively spliced transcript variants have been identified for this gene which encode different protein isoforms.

## DATA

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### Sequence nucleotides

```
ATGTCCAGCATGAATCCCGAATATGATTATTTATTCAAGTTACTTCTGATTGGCGACTCAGGGGTTGGAAAGTCTTGCCTTCT
TCTTAGGTTTGCAGATGATACATATACAGAAAGCTACATCAGCACAATTGGTGTGGATTTCAAATAAGAAGTATAGAGTTAG
ACGGGAAAACAATCAAGCTTCAAATATGGGACACAGCAGGCCAGGAAAGATTTCGAACAATCACCTCCAGTTATTACAGAG
GAGCCCATGGCATCATAGTTGTGTATGATGTGACAGATCAGGAGTCCTTCAATAATGTTAAACAGTGGCTGCAGGAAATAGA
TCGTTATGCCAGTAAAATGTCAACAAATTGTTGGTAGGGAACAAATGTGATCTGACCACAAAGAAAGTAGTAGACTACACA
ACAGCGAAGGAATTTGCTGATTCCCTTGAATTCCGTTTTTGGAAACCAGTGCTAAGAATGCAACGAATGTAGAACAGTCTT
TCATGACGATGGCAGCTGAGATTA AAAAGCGAATGGGTCCC GGAGCAACAGCTGGTGGTGCTGAGAAGTCCAATGTTAAAA
TTCAGAGCACTCCAGTCAAGCAGTCAGGTGGAGGTTGCTGCTAA
```

### Transaction Sequence

```
MSSMNPEYDY LFKLLIGDS VVGKSCLLLR FADDTYTESY ISTIGVDFKI RTIELDGKTIKLIWDTAGQ ERFRTITSSY
YRGAHGIIIV YDVTDQESFN NVKQWLQEID RYASENVNKLIVGNKCDLTT KKVVDYTTAK EFADSLGIPF LETSAKNATN
VEQSFMTMAA EIKKRMGPGATAGGAEKSNV KIQSTPVKQS GGGCC
```