

## AP1AR cDNA

Catalog Number: ATGD0447

### PRODUCT INFORMATION

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**Catalog number**

ATGD0447

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_061039.3

**Alternative Names**

2C18, C4orf16, gamma-BAR, GBAR, PRO0971

**mRNA Refseq**

NM\_018569.4

**OMIM**

610851

**Chromosome location**

4q25

### PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

909bp

**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 Nde 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**

# AP1AR cDNA

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AP1AR is necessary for adaptor protein complex 1 (AP-1) -dependent transport between the trans-Golgi network and endosomes. It regulates the membrane association of AP1G1/gamma1-adaptin, one of the subunits of the AP-1 adaptor complex. The direct interaction with AP1G1/gamma1-adaptin attenuates the release of the AP-1 complex from membranes.

## DATA

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### Sequence nucleotides

```
ATGGGGAACTGCTGCTGGACGCGAGTGTTCGGACTGCTTCGCAAGGAAGCGGGGCGGCTGCAGCGAGTAGGCCGGCGGCG  
GAGGATCCAAGTATTTTAGAACATGCTCAAGAGGTGAGCACTTAACAATAGAGTTTGAGAATCTAGTAGAAAGTGATGAAGG  
GGAGAGCCCAGGAAGCAGTCATAGGCCTCTTACTGAGGAAGAAATTGTTGACCTAAGAGAAAGGCATTATGATTCCATTGC  
CGAAAAACAAAAAGATCTTGATAAGAAAATTCAAAAAGAGTTAGCCTTACAAGAAGAGAAGTTAAGACTAGAAGAAGAAGCT  
TTATACGCTGCACAGCGTGAAGCAGCCAGGGCAGCAAAGCAGCGAAAGCTCTTGGAGCAAGAAAGGCAGAGAATTGTGCA  
GCAATATCATCCTTCCAACAATGGAGAATATCAAAGTTCAGGACCAGAAGATGACTTCGAATCTTGTGGAGAAATATGAAGT  
CACAGTATGAAGTTTTTTCGAAGTAGTAGACTCTCATCAGATGCTACAGTTTTGACACCAAATACAGAAAGCAGTTGTGATTTA  
ATGACCAAACTAAATCAACTAGTGGAATGACGACAGCACATCCTTAGATCTAGAGTGGGAAGATGAAGAAGGAATGAAT  
AGAATGCTTCCAATGAGAGAACGTTCCAAAACAGAGGAAGACATTCTACGGGCAGCACTTAAGTATAGCAACAAGAAGACT  
GGAAGTAATCCTACATCAGCCTCTGATGATTCCAATGGGCTGGAGTGGGAAAATGATTTTGTTAGTGCCGAAATGGATGATA  
ATGGAAATCCGAGTATTCTGGATTTGTAATCCTGTATTAGAAGTGTCTGATTCTGGCATAAGGCATTCTGACACAGATCAA  
CAGACTCGATAG
```

### Transaction Sequence

```
MGNCCWTQCF GLLRKEAGRL QRVGGGGGSK YFRTCSRGEH LTIEFENLVE SDEGESPGSSHRPLTEEEIV DLRERHYDSI  
AEKQKDLDDK IQKELALQEE KLRLEEEALY AAQREAARAARKQRKLEQER QRIVQYHPS NNGEYQSSGP EDDFESCLRN  
MKSQYEVFRS SRLSSDATVLPNTESSCDL MTKTKSTSGN DDSTSLDLEW EDEEGMNRML PMRERSKTEE  
DILRAALKYSNKKTGSNPTS ASDDSNLEW ENDFVSAEMD DNGNSEYSGF VNPVLELSDS GIRHSDTDQQTR
```