

## RGS19 cDNA

Catalog Number: ATGD0061

### PRODUCT INFORMATION

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**Catalog number**

ATGD0061

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_001034556.1

**Alternative Names**

GAIP, RGSGAIP

**mRNA Refseq**

NM\_001039467.1

**OMIM**

605071

**Chromosome location**

20q13.33

### PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

654bp

**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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RGS19, also known as Regulator of G-protein signaling 19, belongs to RGS (regulator of G protein signaling) family and negatively regulates G protein coupled receptor signaling. This protein specifically interacts with heterotrimeric GTP-binding protein G alpha i3 (GAI3).

### DATA

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#### Sequence nucleotides

```
ATGCCCACCC CGCATGAGGC TGAGAAGCAG ATCACAGGGC CAGAGGAGGC GGACCGGCCC CCTTCAATGT
CCAGTCATGA TACAGCCTCT CCAGCGGCCC CCAGCCGCAA CCCCTGCTGC CTGTGCTGGT GCTGCTGCTG
TAGTGCTCC TGGAACCAAG AGCGGCGGCG CGCGTGGCAG GCCTCCCGGG AGAGCAAGCT GCAGCCCCTC
CCCAGCTGTG AAGTATGTGC CACGCCAAGT CCTGAGGAGG TGCAGAGCTG GGCGCAGTCT TTTGACAAGC
TGATGCACAG CCCAGCGGGA CGCAGCGTGT TCCGGGCGTT CCTGCGGACA GAGTACAGCG AGGAGAACAT
GCTCTTCTGG TTGGCCTGCG AGGAGCTGAA GGCCGAGGCC AACCAGCATG TGGTAGACGA GAAGGCGAGG
CTCATCTACG AGGACTACGT ATCCATCCTG TCCCCAAGG AGGTGAGCCT GGACTIONCGT GTGCGGGAGG
GCATCAACAA GAAGATGCAG GAGCCGTCCG CACACACGTT CGACGACGCG CAGCTGCAGA TCTACACGCT
CATGCACCGG GACTCCTACC CCCGCTTCT CAGCTCTCCC ACCTACCGTG CCCTGCTGCT GCAGGGGCCA
TCACAGTCCT CCTCCGAGGC CTAG
```

#### Transaction Sequence

```
MPTPHEAEKQ ITGPEEADRP PSMSSHDTAS PAAPSRNPCC LCWCCCCSCS WNQERRRAWQ ASRESKLQPL PSCEVCATPS
PEEVQSWAQS FDKLMHSPAG RSVFRAFLRT EYSEENMLFW LACEELKAEA NQHVVDEKAR LIYEDYVSIL SPKEVSLDSR
VREGINKKMQ EPSAHTFDDA QLQIYTLMHR DSYPRFLSSP TYRALLLQGP SQSSSEA
```