

## RGS2 cDNA

Catalog Number: ATGD0143

### PRODUCT INFORMATION

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**Catalog number**

ATGD0143

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_002914.1

**Alternative Names**

G0S8

**mRNA Refseq**

NM\_002923.3

**OMIM**

600861

**Chromosome location**

1q31

### PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

636bp

**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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Regulator of G protein signaling (RGS) family members are regulatory molecules that act as GTPase activating proteins (GAPs) for G alpha subunits of heterotrimeric G proteins. RGS proteins are able to deactivate G protein subunits of the Gi alpha, Go alpha and Gq alpha subtypes. They drive G proteins into their inactive GDP-bound forms. Regulator of G protein signaling 2 belongs to this family. RGS2 acts as a mediator of myeloid differentiation and may play a role in leukemogenesis.

## DATA

### Sequence nucleotides

```
ATGCAAAGTGCTATGTTCTTGGCTGTTCAACACGACTGCAGACCCATGGACAAGAGCGCAGGCAGTGGCCACAAGAGCGAG
GAGAAGCGAGAAAAGATGAAACGGACCCCTTTTAAAAGATTGGAAGACCCGTTTGAGCTACTTCTTACAAAATTCCTCTACTC
CTGGGAAGCCCAAAACCGGCCAAAAAAGCAAACAGCAAGCTTTCATCAAGCCTTCTCCTGAGGAAGCACAGCTGTGGTCAG
AAGCATTTGACGAGCTGCTAGCCAGCAAATATGGTCTTGCTGCATTGAGGGCTTTTTTAAAGTCGGAATTCTGTGAAGAAAA
TATTGAATTCTGGCTGGCCTGTGAAGACTTCAAAAAAACCAAATCACCCCAAAAGCTGTCCTCAAAAGCAAGGAAAAATATAT
ACTGACTTCATAGAAAAGGAAGCTCCAAAAGAGATAAACATAGATTTTCAAACCAAAACTCTGATTGCCCAGAATATACAAGA
AGCTACAAGTGGCTGCTTTACAAGTCCCAGAAAAGGGTATACAGCTTGATGGAGAACAACCTTATCCTCGTTTCTTGAG
TCAGAATTCTACCAGGACTTGTGTAAAAAGCCACAAATCACCCACAGAGCCTCATGCTACATGA
```

### Transaction Sequence

```
MQSAMFLAVQ HDCRPMDKSA GSGHKSEEKR EKMRTLLKD WKTRLSYFLQ NSSTPGKPKTGKSKQQAQFI KPSPEEAQLW
SEAFDELLAS KYGLAAFRAF LKSEFCEENI EFWLACEDFKKTKSPQKLSS KARKIYTDIF EKEAPKEINI DFQTKTLIAQ
NIQEATSGCF TTAQKRVYSLMENNSYPRFL ESEFYQDLCK KPQITTEPHA T
```