

Product datasheet for RC225010

RGS4 (NM 001113381) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: RGS4 (NM_001113381) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: RGS4

Synonyms: RGP4; SCZD9

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide >RC225010 representing NM_001113381
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGTGCAAAGGGCTTGCAGGTCTGCCGGCTTCTTGCTTGAGGAGTGCAAAAGATATGAAACATCGGCTAGGTTTCCTGCTGCAAAAAATCTGATTCCTGTGAACACAATTCTTCCCACAACAAGAAGGACAAAGTGGTTATTTGCCAGAGAGTGAGCCAAGAGGAAGTCAAGAAATGGGCTGAATCACTGGAAAACCTGATTAGTCATGAATGTGAACCTGGATTCTTGCACCAGGGAAGAGAGACAAGCCGGAACATGCTAGAGCCTACAATAACCTGCTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC225010 representing NM_001113381

Red=Cloning site Green=Tags(s)

 ${\tt MCKGLAGLPASCLRSAKDMKHRLGFLLQKSDSCEHNSSHNKKDKVVICQRVSQEEVKKWAESLENLISHE}$

CEPGFLHQGRDKPEHARAYNNLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

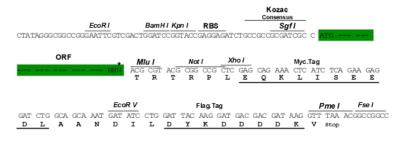
CN: techsupport@origene.cn

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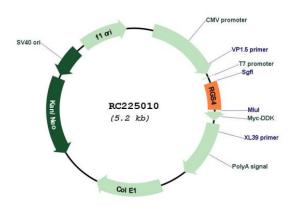
Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001113381

ORF Size: 279 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

> reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info



RGS4 (NM_001113381) Human Tagged ORF Clone - RC225010

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

RefSeq: <u>NM 001113381.1</u>, <u>NP 001106852.1</u>

 RefSeq ORF:
 282 bp

 Locus ID:
 5999

 UniProt ID:
 P49798

 Cytogenetics:
 1q23.3

Protein Families: Druggable Genome

MW: 10.4 kDa

Gene Summary: 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 4 belongs to this family. All RGS proteins share a conserved 120-amino acid

sequence termed the RGS domain. Regulator of G protein signaling 4 protein is 37% identical to RGS1 and 97% identical to rat Rgs4. This protein negatively regulate signaling upstream or at the level of the heterotrimeric G protein and is localized in the cytoplasm. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2008]