

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

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

**ATGTGCAAAGGGCTTGCAGGTCTGCCGGCTTCTTGCTTGAGGAGTGCAAAGATATGAAACATCGGCTAG
GTTTCCTGCTGCAAAAATCTGATTCCTGTGAACACAATCTTCCCACAACAAGAAGGACAAAGTGGTTAT
TTGCCAGAGAGTGAGCCAAGAGGAAGTCAAGAAATGGGCTGAATCACTGGAAAACCTGATTAGTCATGAA
TGTGAACCTGGATTCTTGACCAGGGAAGAGACAAGCCGGAACATGCTAGAGCCTACAATAACCTGCTT**

**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence: >RC225010 representing NM_001113381
Red=Cloning site Green=Tags(s)

MCKGLAGLPASCLRSAKDMKHLRGLLQKSDSCEHNSSHKKDKVVICQRVSQEEVKKWAESLENLISHE
CEPGLHQGRDKPEHARAYNNLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



[View online »](#)

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:	<ol style="list-style-type: none">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, NP_001106852.1</u>
RefSeq ORF:	282 bp
Locus ID:	5999
UniProt ID:	<u>P49798</u>
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]