

Product datasheet for **RG234243**

RGS6 (NM_001204417) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGS6 (NM_001204417) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RGS6
Synonyms:	GAP; HA117; S914
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234243 representing NM_001204417
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCAAGGATCCGGGGATCAAAGAGCAGTGGGGTGTCTGACCCAGAGGAGAGTTCTCCAAACATGA
 TCGTTTACTGCAAAATTGAAGACATCATTACAAAGATGCAAGATGACAAGACAGGGGGTGTGCCATCAG
 AACAGTCAAGAGCTTTCTCTCCAAAATCCCCAGTGTCTGTCACAGGTAAGTACTGACATTGTGCAGTGGCTTATG
 AAGAACCTTTCCATTGAGGACCCAGTTGAAGCAATACACTTGGGGAGCCTTATCGCTGCCAGGGCTACA
 TCTTTCCAATCTCAGACCATGTTCTCACCATGAAGGATGATGGCACCTTTTATCGTTTCCAGGCTCCGTA
 CTTCTGGCCTTGAAGTCTGGGAACCTGAAAACACTGACTATGCCATCTATCTCTGTAAGAGGACAATG
 CAAAATAAAGCAAGGCTGGAAGTGGCAGATTATGAAGCAGAAAACCTTAGCAAGACTCCAGAGGGCCTTTG
 CGAGGAAGTGGGAATTCATCTTTATGCAAGCAGAAGCACAAGTAAAGATTGACCGGAAAAAGACAAGAC
 AGAAAAGAAAATTTGGATAGTCAAGAAGCAGCCTTTTGGGATGTCCACAGGCCTGTGCCAGGCTGTGTG
 AACACAACAGAAATGGATATCCGAAAATGTCGACGTTTGAAGAATCCACAAAAGGTTAAAAAGTCCGGT
 ATGGCGTGACTGAAGAGTCCCAGGCACAGAGCCCGGTGCATGTACTCAGCCAACCAATCAGGAAAAACAAC
 AAAAGAGGACATCCGAAAACAGATAACATTTTTGAACGCACAGATCGACAGACATTGTTTAAAAATGTCC
 AAAGTGGCTGAAAGTTAATTGCCTACACGGAACAATAATGTGGAATATGACCCCTTGATAACACCAGCTG
 AGCCATCCAACCTTGGATCAGCGATGACGTTGCTTTGTGGGACATAGAGATGAGCAAAGAGCCAGCCA
 ACACGGAGTAAAAAGATGGGGCTTCTCTTCGATGAGATATTGAAGGACCAGGTGGGGCGGACAGTTT
 CTACGATTCTGGAGTCCGAATTCAGTTCAGAAAACCTCAGTTCTGGCTGGCTCCAAGATCTTAAGA
 AACAAACCCTACAGGATGTGCCAAGAGGGTAGAAGAAATCTGGCAAGAGTTTCTGGCTCCAGGGCTCC
 AAGTGCAATCAACCTGGATTCTCACAGCTATGAGATAACCAAGTCAAAATGTCAAAGATGGAGGGAGATAT
 ACATTTGAAGACGCCAGGAGCAGTCTACAAGCTGATGAAGAGTGACAGCTATGCCCGCTTCTCCGGT
 CAAATGCTTACCAGGATTTGCTGCTGGCCAAGAAGAAGCCAGAAAAGTGAAGCAAGTTCGTAAGACTCCCT
 AGAAAAGTTCCTCGCAGTGTGTGATTCCAACACTCCACTCGTAAGAGGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234243 representing NM_001204417
 Red=Cloning site Green=Tags(s)

MAQSGDQRAVGVADPEESSPNMIVYCKIEDIITKMQDDKTGGVPIRTVKSFLSKIPSVVTGTDIVQWLM
 KNLSIEDPVEAIHLGSLIAAQGYIFPISDHVLTMKDDGTFYRFQAPYFWPNSCWEPENTDYAIYLCRMT
 QNKARLELADYEAEENLARLQRAFARKWEFIFMQAEQVKIDRKKDKTERKILDSQERAFWDVHRVPVGCV
 NTTEMDIRKCRRLKNPQKVKKSVMYGVTEESQAQSPVHVLSPQIRKTTKEDIRKQITFLNAQIDRHCLKMS
 KVAESLIAYTEQYVEYDPLITPAEPSNPWISDDVALWDIEMSKEPSQQRVSRWGFDFEILKDQVGRDQF
 LRFLESEFSSENLRFWLAQDLKKQPLQDVAKRVEEIQWQFLAPGAPSAINLDSHSYEITSQNVKDGGRY
 TFEDAQEHYKLMKSDSYARFLRSNAYQDLLLAKKKPESEQRRTSLEKFTRSVLYSNTPLAKRP

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001204417

ORF Size: 1455 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](#)

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: [NM_001204417.3](#)

RefSeq Size: 1716 bp

RefSeq ORF: 1458 bp

Locus ID: 9628

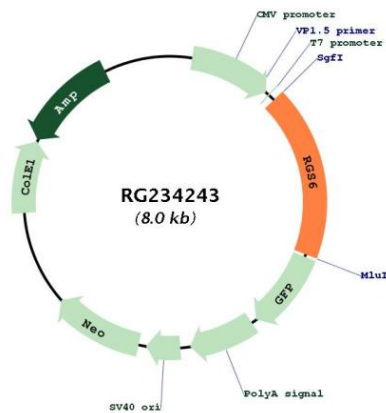
UniProt ID: [P49758](#)

Cytogenetics: 14q24.2

Protein Families: Druggable Genome

Gene Summary: This gene encodes a member of the RGS (regulator of G protein signaling) family of proteins, which are defined by the presence of a RGS domain that confers the GTPase-activating activity of these proteins toward certain G alpha subunits. This protein also belongs to a subfamily of RGS proteins characterized by the presence of DEP and GGL domains, the latter a G beta 5-interacting domain. The RGS proteins negatively regulate G protein signaling, and may modulate neuronal, cardiovascular, lymphocytic activities, and cancer risk. Many alternatively spliced transcript variants encoding different isoforms with long or short N-terminal domains, complete or incomplete GGL domains, and distinct C-terminal domains, have been described for this gene, however, the full-length nature of some of these variants is not known.[provided by RefSeq, Mar 2011]

Product images:



Circular map for RG234243