

Product datasheet for **SC331578**

RGS6 (NM_001204418) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: RGS6 (NM_001204418) Human Untagged Clone
Tag: Tag Free
Symbol: RGS6
Synonyms: GAP; HA117; S914
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC331578 representing NM_001204418.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGCTCAAGGATCCGGGGATCAAAGAGCAGTGGGGTTGCTGACCCAGAGGAGATTCTCAAACATG
ATCGTTTACTGCAAAATTGAAGACATCATTACAAAGATGCAAGATGACAAGACAGGGGTGTGCCCATC
AGAACAGTCAAGAGCTTTCTCTCAAAAATCCCCAGTGTGTCACAGGACTGACATTGTGCAGTGGCTT
ATGAAGAACCTTTCCATTGAGGACCCAGTTGAAGCAATACACTTGGGGAGCCTTATCGTTCAGGGC
TACATCTTTCCAATCTCAGACCATGTTCTACCATGAAGGATGATGGCACCTTTTATCGTTCCAGGCT
CCGTACTTCTGGCCTTCGAAGTCTGGGAACCTGAAAACACTGACTATGCCATCTATCTCTGTAAGAGG
ACAATGCAAAATAAAGCAAGGCTGGAACCTGGCAGATTATGAAGCAGAAAACCTTAGCAAGACTCCAGAGG
GCCTTTGCGAGGAAGTGGGAATTCATCTTTATGCAAGCAGAAGCACAAGTAAAGATTGACCGGAAAAAA
GACAAGACAGAAAAGGAAAATTTGGATAGTCAAGAACGAGCCTTTGGGATGTCCACAGGCTGTGCCA
GGCTGTGTGAACACAACAGAAATGGATATCCGAAAATGTCGACGTTTGAAGAATCCACAAAAGGTTAAA
AAGTCCGTGTATGGCGTGACTGAAGAGTCCCAGGCACAGAGCCCGGTGCATGTACTCAGCCAACCAATC
AGGAAAACAACAAAAGAGGACATCCGAAAACAGATAACATTTTGAACGCACAGATCGACAGACATTGT
TTGAAAATGTCCAAAGTGGCTGAAAGTTTAAATTCCTACACGGAACAATATGTGGAATATGACCTTTG
ATAACACCAGCTGAGCCATCCAACCTTGGATCAGCGATGACGTTGCTTTGTGGGACATAGAGATGAGC
AAAGAGCCCAGCCAACAGCGAGTAAAAAGATGGGGCTTCTTTTCGATGAGATATTGAAGGACCAGGTG
GGGCGGGACCAAGTTTCTACGATTCTGGAGTCCGAATTCAGTTCAGAAAACCTCAGGTTCTGGCTGGCT
GTCCAAGATCTTAAGAAAACAACCCTACAGGATGTGGCCAAGAGGGTAGAAGAACTGGCAAGAGTTT
CTGGCTCCAGGGGCTCCAAGTGAATCAACCTGGATTCTCACAGCTATGAGATAACCAAGTCAAAATGTC
AAAGATGGAGGGAGATATACATTTGAAGACGCCAGGAGCACATCTACAAGCTGATGAAGAGTGACAGC
TATGCCCGCTTCTCCGGTCAAATGCTTACCAGGATTTGCTGCTGGCCAAGAAGAAGTTGTATTCCAAC
ACTCCACTCGCTAAGAGGCCCTGA
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Restriction Sites: SgfI-MluI
ACCN: NM_001204418
Insert Size: 1404 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	NM_001204418.1
RefSeq Size:	1662 bp
RefSeq ORF:	1404 bp
Locus ID:	9628
UniProt ID:	P49758
Cytogenetics:	14q24.2
Protein Families:	Druggable Genome
MW:	54 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) is missing the penultimate coding exon, and uses an alternate acceptor splice site at the 3' terminal exon compared to variant 1. This results in a frame-shift, and a shorter isoform (4, also known as RGS6Lbeta2) with a distinct C-terminus compared to isoform 1.</p>