

## Product datasheet for **SC331582**

### **RGS6 (NM\_001204422) Human Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RGS6 (NM\_001204422) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** RGS6  
**Synonyms:** GAP; HA117; S914  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC331582 representing NM\_001204422.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGCTCAAGGATCCGGGGATCAAAGAGCAGTGGGGGTTGCTGACCCAGAGGAGATTCTCCAAACATG
ATCGTTTACTGCAAAATTGAAGACATCATTACAAAGATGCAAGATGACAAGACAGGGGTGTGCCCATC
AGAACAGTCAAGAGCTTTCTCTCCAAAATCCCCAGTGTGTCACAGGACTGACATTGTGCAGTGGCTT
ATGAAGAACCTTTCCATTGAGGACCCAGTTGAAGCAATACACTTGGGGAGCCTTATCGTGGCCAGGGC
TACATCTTTCCAATCTCAGACCATGTTCTCACCATGAAGGATGATGGCACCTTTTATCGTTTCCAGGCT
CCGTACTTCTGGCCTTCGAACTGCTGGGAACCTGAAAACACTGACTATGCCATCTATCTCTGTAAGAGG
ACAATGCAAAATAAAGCAAGGCTGGAACCTGGCAGATTATGAAGCAGAAAACCTTAGCAAGACTCCAGAGG
GCCTTTGCGAGGAAGTGGGAATTCATCTTTATGCAAGCAGAAGCACAAGTAAAGATTGACCGGAAAAAA
GACAAGACAGAAAAGGAAAAATTTGGATAGTCAAGAACGAGCCTTTTGGGATGTCCACAGGCCTGTGCCA
GGCTGTGTGAACACAACAGAAATGGATATCCGAAAATGTCGACGTTTGAAGAATCCACAAAAGGTTAAA
AAGTCCGTGTATGGCGTGACTGAAGAGTCCCAGGCACAGAGCCCGGTGCATGTACTCAGCCAACCAATC
AGGAAAACAACAAAAGAGGACATCCGAAAACAGATAACATTTTGAACGCACAGATCGACAGACATTGT
TTGAAAATGTCCAAAGTGGCTGAAAGCAAAGAGCCCAAGCAACAGCGAGTAAAAAGATGGGGCTTCTCT
TTCGATGAGATATTGAAGGACCAGTGGGGCGGGACCAGTTTCTACGATTCTGGAGTCCGAATTCAGT
TCAGAAAACCTCAGGTTCTGGCTGGCTGTCCAAGATCTTAAGAAAACAACCCCTACAGGATGTGGCCAAG
AGGGTAGAAGAAATCTGGCAAGAGTTTCTGGCTCCAGGGGCTCCAAGTGAATCAACCTGGATTCTCAC
AGCTATGAGATAACCAAGTCAAAATGTCAAAGATGGAGGGAGATATACATTTGAAGACGCCAGGAGCAC
ATCTACAAGCTGATGAAGAGTGACAGCTATGCCCGCTTCTCCGGTCAAATGCTTACCAGGATTTGCTG
CTGGCCAAGAAGAAGTTGTATTCCAACACTCCACTCGCTAAGAGGCCCTGA
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**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001204422  
**Insert Size:** 1293 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001204422.1</a>
<b>RefSeq Size:</b>	1551 bp
<b>RefSeq ORF:</b>	1293 bp
<b>Locus ID:</b>	9628
<b>UniProt ID:</b>	<a href="#">P49758</a>
<b>Cytogenetics:</b>	14q24.2
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	49.8 kDa
<b>Gene Summary:</b>	<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 (8) lacks 2 non-consecutive coding exons, 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 (8, also known as RGS6Lbeta2(-GGL)) with a distinct C-terminus compared to isoform 1.</p>