

## Product datasheet for **SC116635**

### **RGS4 (NM\_005613) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RGS4 (NM_005613) Human Untagged Clone
Tag:	Tag Free
Symbol:	RGS4
Synonyms:	RGP4; SCZD9
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005613, the custom clone sequence may differ by one or more nucleotides

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ATGTGCAAAGGGCTTGCAGGTCTGCCGGCTTCTTGCTTGAGGAGTGCAAAAGATATGAAACATCGGCTAG
GTTTCCTGCTGCAAAAATCTGATTCTGTGAACACAATTCTTCCCACAACAAGAAGGACAAAGTGGTTAT
TTGCCAGAGAGTGAGCCAAGAGGAAGTCAAGAAATGGGCTGAATCACTGGAAAACCTGATTAGTCATGAA
TGTGGGCTGGCAGCTTTCAAAGCTTTCTGAAGTCTGAATATAGTGAGGAGAATATTGACTTCTGGATCA
GCTGTGAAGAGTACAAGAAAATCAAATCACCATCTAACTAAGTCCCAAGGCCAAAAGATCTATAATGA
ATTCATCTCAGTCCAGGCAACCAAGAGGTGAACCTGGATTCTTGACCAGGGAAGAGACAAGCCGGAAC
ATGCTAGAGCCTACAATAACCTGCTTTGATGAGGCCCAGAAGAAGATTTCAACCTGATGGAGAAGGATT
CCTACCGCGCTTCTCAAGTCTCGATTCTATCTTGATTTGGTCAACCCGTCCAGCTGTGGGCAGAAAA
GCAGAAAGGAGCCAAGAGTTCAGCAGACTGTGCTTCCCTGGTCCCTCAGTGTGCCTAA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_005613 unedited</p> <pre>GTTANAATTTGTATACGACTCACTATAGGCGGCCGCGNAATTCGCACGAGGCGGAGAAGA GGCAAAGTACGCTCAAAGCCGAAGCCACAGCTCCTCCTGCCGATTTCTTTCTGCTTGC GAATTCGAAGCTGTTAAATAAGATGTGCAAAGGGCTTGCAGGTCTGCCGGCTTCTTGCT GAGGAGTGCAAAAGATATGAAACATCGGCTAGGTTTCTGCTGCAAAAATCTGATTCCTG TGAACACAATTCCTCCACAACAAGAAGGACAAAGTGGTTATTTGCCAGAGAGTGAGCCA AGAGGAAGTCAAGAAATGGGCTGAATCACTGGAAAACCTGATTAGTCATGAATGTGGCT GGCAGCTTTCAAAGCTTTCTTGAAGTCTGAATATAGTGAGGAGAATATTGACTTCTGGAT CAGCTGTGAAGAGTACAAGAAAATCAAATCACCATCTAAACTAAGTCCCAAGCCAAAAA GATCTATAATGAATTCATCTCAGTCCAGGCAACCAAAGAGGTGAACCTGGATTCTTGAC CAGGGAAGAGACAAGCCGGAACATGCTAGAGCCTACAATAACCTGCTTTGATGAGGCCCA GAAGAAGATTTTCAACCTGATGGAGAAGGATTCTACCGCGCTTCTCAAGTCTCGATT CTATCTTGATTTGGTCAACCCGTCCAGCTGTGGGCAGAAAAGCAGAAAGAGCCCAAGAT TCAGCAGACTGTGCTTCCCTGGTCCCTCAGTGTGCCTAATCTCACCTGAGGCAGAAGGA TGAATGCCAGACTCTATGCTCTGGAAACCTGAGCCAATATTTGATCTGTATTAGGCTC CAGTGCTTTATCCACATTGTAGCCTATATTCATGCTGGCTGCCCTGGGGGATTCACTCT ACGCT</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_005613 unedited</p> <pre>TGGCAACTCTCCGGGGCCAGGNANAGCACTGGGGAGGGGTACAGGGATGCCACCCGGGA TCTGTTCCAGGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTT TTTTATTACATAAAATAATTTACTTCTCATTTCAGCGTGACCTCCAGACCTATTAGTAAG ACAGCAGTCTGTGAGTTCAGATACAATCTGAAAGTCATGACAATTATAATAGGGCAAGAC CAATAAAGTTACACATTTGAAGTCAACTAGAGACAAAATTGTGGAAGTGTGATAACAGA AAATGACACTGATGAGGAACTCCAGGGATTAAGGGCAAGATTGCCAGAGAGACAAGAA GGGTACAATTAGAAAACCTGCATCTTTAATACAGTGTGATTTGTATGCATACACTCTGGT GTCTTCATTTTGCAGCCATTATATTGGCTTAAAAGCCAGAAAGGTGCTCATGATGTAA TTTATACTGGAGCAACGAATGCAGTGTATGTGGACGCGTGTGTGCACTTTGAAAGGCA GTAGTTTTAGAGAATGAGAAGAAAATTAATCCTGGGCATTCTTAATAAATTCAGGTGA TATCCTGTACCTCATTATAAAAACAATAATAATAAACACGTACAAAATAACATCA TAAATAACATAAATGGAGAGTTTTCAAGTATTTCAATGTGCCTTGAAAAGTTTCAAACAG TAATTCTACAATTGGTTAGACAATCATNTTTTTCTTTTTCTTCTCCTCATTAGNC TCAGAGCCTAAAAAGAATGCCTNCACTCTGGTACCCCGATGTTGGAATGAANNNTAC AGATCTACCTTAAGAGAACTATGTGGCTTTTCAATGTGAAAT</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005613
<b>Insert Size:</b>	2740 bp
<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).

**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\\_005613.3](#), [NP\\_005604.1](#)

**RefSeq Size:** 2769 bp

**RefSeq ORF:** 618 bp

**Locus ID:** 5999

**UniProt ID:** [P49798](#)

**Cytogenetics:** 1q23.3

**Domains:** RGS

**Protein Families:** Druggable Genome

**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]  
Transcript Variant: This variant (2) has an alternate 5' sequence, which results in a downstream AUG start codon, as compared to variant 1. The resulting isoform (2) has a shorter N-terminus, compared to isoform 1.