

Product datasheet for **SC118312**

RGS10 (NM_002925) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGS10 (NM_002925) Human Untagged Clone
Tag:	Tag Free
Symbol:	RGS10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002925, the custom clone sequence may differ by one or more nucleotides

```
ATGGAACACATCCACGACAGCGATGGCAGTTCCAGCAGCAGCCACCAGAGCCTCAAGAGCACAGCCAAAT
GGGCGGCATCCCTGGAGAATCTGCTGGAAGACCCAGAAGGCGTGAAAAGATTTAGGGAATTTTTAAAAA
GGAATTCAGTGAAGAAATGTTTTGTTTTGGCTAGCATGTGAAGATTTTAAGAAAATGCAAGATAAGACG
CAGATGCAGGAAAAGGCAAAGGAGATCTACATGACCTTTCTGTCCAGCAAGGCCTCATCACAGGTCAACG
TGGAGGGGCAGTCTCGGCTCAACGAGAAGATCCTGGAAGAACCGCACCTCTGATGTTCCAGAACTCCA
GGACCAGATCTTTAATCTCATGAAGTACGACAGCTACAGCCGCTCTTAAAGTCTGACTTGTTTTAAAA
CACAAGCGAACCGAGGAAGGAAGAAGATTTGCCTGATGCTCAAAGTGCAGCTAAAAGAGCTTCCAGAA
TTTATAACACATGA
```



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002925 unedited
 GGGTAGCATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCGCGCCGTG
 AGCCGGCTGAGCAGGAAGCGGCCCGCTCAGACATCCACGACAGCGATGGCAGTTCACGC
 AGCAGCCACCAGAGCCTCAAGAGCACAGCCAAATGGGCGGCATCCCTGGAGAATCTGCTG
 GAAGACCCAGAAGGCGTGAAGATTTAGGGAATTTTTAAAAAAGGAATTCAGTGAAGAA
 AATGTTTTGTTTTGGCTAGCATGTGAAGATTTAAGAAAATGCAAGATAAGACGCAGATG
 CAGGAAAAGGCAAGGAGATCTACATGACCTTTCTGTCCAGCAAGGCCTCATCACAGGTC
 AACGTGGAGGGGAGTCTCGGCTCAACGAGAAGATCCTGGAAAGAACCGCACCCCTCTGATG
 TTCCAGAAACTCCAGGACCAGATCTTTAATCTCATGAAGTACGACAGCTACAGCCGCTTC
 TTAAGTCTGACTTGTTTTTAAACACAAGCGAACCGAGGAAGAGGAAGAAGATTTGCCCT
 GATGCTCAAAGTGCAGCTAAAAGAGCTTCCAGAATTTATAACACATGAGCCCCAAAAAG
 CCGGGACTGGCAGCTTAAAGCAAGGAATTTCTCTCAGGACCGTCCCGGTTTATC
 ATTGCTTTGTTATTTGAAGGACTGAAATGTACAAAACCTTCAATGGGATGTGTGTTTT
 ATTAAGTCTTACCAGTAAATTTGCATGATGGCTAAGCTAACATAAAAAAAAAAAAAA
 AAAACTCGACTTAGATTGCGGCCGCGGTATAGCTGTTTCTGAACAGATCCCCGGTGG
 CATCCCTGTGACCCTCCCCATGCCTCTCTGGCCCTGNAAGTTGCCACTCCAGTGCCCA
 CCAGCCTTGCCTAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002925 unedited
 GGACGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTATGTTAGCTTAGCCAT
 CATGCAAAATTTACTGGTGAAGCAGTTAATAAAACACACATCCCATTGAAGGTTTTGTA
 CATTTTCAGTCTTACAAATAACAAAGCAATGATAAACCCGGCACGGTCTGAGAGGAAAT
 TCCTTTGCTTCTTAAAGCTGCCAGTCCCGGCTTTTTGGGGCTCATGTGTATAAATTC
 GGAAGCTCTTTAGCTGCAGTTTGAGCATCAGGCAAATCTTCTTCTTCTCCTCGGTTCCG
 CTTGTGTTTTAAAAACAAGTCAGACTTTAAGAAGCGGCTGAGCTGTCGTAATCATGAG
 ATTAAGATCTGGTCTGGAGTTTCTGGAACATCAGAGGGTGCAGTTCTTCCAGGATCTT
 CTCGTTGAGCCGAGACTGCCCTCCACGTTGACCTGTGATGAGGCCTTGCTGGACAGAAA
 GGTGATGTAGATCTCCTTTGCCCTTTTCTGCATCTGCGTCTTATCTTGCATTTTCTTAA
 ATCTTCACATGCTAGCCAAAACAAAACATTTTCTTCACTGAATTCCTTTTTTAAAAATTC
 CCTAAATCTTTTACGCCTTCTGGGCTTCCAGCAGATTCTCCAGGGATGCCGCCATTT
 GGCTGTGCTCTTGAAGCTCTGGTGGCTGCTGCTGGAAGTCCATCGCTGTCGTTGATGTC
 TGACGGCGGCGCTTCTGCTCAGCCGGCTCCCGCGCGCTCGTGCCGAATTCGGGCC
 GCCCTATAGTGAGTCGATTACAAAATCTGACGGTTCACTAAACGAGCTCTGCTTATAT
 AGACCTCCACGTACACGCTACGGCCATTTGCGTACCGGGCGGNGTTATTACGACAT
 TNTGAAAGTTCCGTTGATTTTGGTGGCCAAACAACTCCN

Restriction Sites:

NotI-NotI

ACCN:

NM_002925

Insert Size:

700 bp

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_002925.3 , NP_002916.1
RefSeq Size:	859 bp
RefSeq ORF:	504 bp
Locus ID:	6001
UniProt ID:	O43665
Cytogenetics:	10q26.11
Domains:	RGS
Gene Summary:	<p>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 10 belongs to this family. All RGS proteins share a conserved 120-amino acid sequence termed the RGS domain. This protein associates specifically with the activated forms of the two related G-protein subunits, G-alpha_{i3} and G-alpha_z but fails to interact with the structurally and functionally distinct G-alpha subunits. Regulator of G protein signaling 10 protein is localized in the nucleus. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and coding region compared to variant 1. The resulting isoform (b) is shorter and has a distinct N-terminus compared to isoform a.</p>