

## Product datasheet for **SC118277**

### **RGS16 (NM\_002928) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RGS16 (NM_002928) Human Untagged Clone
Tag:	Tag Free
Symbol:	RGS16
Synonyms:	A28-RGS14; A28-RGS14P; RGS-R
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118277 sequence for NM_002928 edited (data generated by NextGen Sequencing) ATGTGCCGCACCCTGGCCGCCTTCCCCACCACCTGCCTGGAGAGAGCCAAAGAGTTCAAG ACACGTCTGGGGATCTTTCTTCACAAATCAGAGCTGGGCTGCGACTGGGAGTACTGGC AAGTTCGAGTGGGGCAGTAAACACAGCAAAGAGAATAGAACTTCTCAGAAGATGTGCTG GGGTGGAGAGAGTCGTTTCGACCTGCTGCTGAGCAGTAAAAATGGAGTGGCTGCCTCCAC GCTTTCTGAAGACAGAGTTCAGTGAGGAGAACCCTGGAGTTCTGGCTGGCCTGTGAGGAG TTCAAGAAGATCCGATCAGCTACCAAGCTGGCCTCCAGGGCACACCAGATCTTTGAGGAG TTCATTTGCAGTGAGGCCCTAAAGAGGTCAACATTGACCATGAGACCCGCGAGCTGACG AGGATGAACCTGCAGACTGCCACAGCCACATGCTTTGATGCGGCTCAGGGGAAGACACGT ACCCTGATGGAGAAGACTCCTACCCACGCTTCTGAAGTCGCCTGCTTACCGGGACCTG GCTGCCCAAGCCTCAGCCGCCTCTGCCACTCTGTCCAGCTGCAGCCTGGACGAGCCCTCA CACACCTGA  Clone variation with respect to NM_002928.3 410 a=>g



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002928 unedited  
 GGTCACAATTGTAACGACTCACTATAGGCGGCCGCAATTCGCACGAGGCCCAACCGCA  
 GTTGACTAGCACCTGCTACCGCGCCTTTGCTTCTGGCGCACGCGGAGCCTCCTGGAGCC  
 TGCCACCATCCTGCCTACTACGTGCTGCCCTGCCCGCCGAGCCATGTGCCGCACCCTGGC  
 CGCCTTCCCCACCACCTGCCTGGAGAGACCAAGAGTTCAAGACACGTCTGGGGATCTT  
 TCTTCACAAATCAGAGCTGGGCTGCGATACTGGGAGTACTGGCAAGTTGAGTGGGGCAG  
 TAAACACAGCAAAGAGAATAGAAACTTCTCAGAAGATGTGCTGGGGTGGAGAGAGTCGTT  
 CGACCTGCTGCTGAGCAGTAAAAATGGAGTGGCTGCCTTCCACGCTTTCCTGAAGACAGA  
 GTTCAGTGAGGAGAACCTGGAGTCTGGCTGGCCTGTGAGGAGTTCAAGAAGATCCGATC  
 AGCTACCAAGCTGGCCTCCAGGGCACACCAGATCTTTGAGGAGTTCATTTGCAGTGAGGC  
 CCCTANAGAGGTCAACATTGACCATGAGACCCGCGAGCTGACGAGGATGAACCTGCAGAC  
 TGCCACAGCCACATGCCTTTGATGCGGCTCAAGGGAAGACACGTACCCTGATGGAGAAAG  
 ACTCCTACCCACCGCTTCTGAAGTCGCTGCTTACCGGACCTGGTTGCCAAGCCTCAGC  
 CGCCTCTGCCACTCTGTCCAGCTGCAGCCTGGACGAGCCCTCACACACCTGAGTCTCCAC  
 GGCAGTGAAGAAACCAACCGGAAAGAGAGTTGAGTCCCCCATCCCCGAGGTGCCTGCCCC  
 TGGTCGGAAGCCAAGTTCTGCAAAGCAAGTGCCAGAGGACAAATAAAAAAAAAAAAAACCC  
 GACC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_002928 unedited  
 AGAGTCGAGTTTTTTTTTTTTTTTTTTTGTCTTGCCTTGCCTTTCGAGAACCTGCCTC  
 CCACACAGGGGCAGCCACCTCGGGGATGGGTGACTCAACCTCTCTCCCGGCTGGCTTCC  
 TCACTGCCGTGGAGACTCAGGTGTGTGAGGGCTCGCCAGGCTGCAGCTGGACAGAGTGG  
 CACACGCGGCTGAGGCTTGGGCAGCCAGTCCCGCAAGCAGGCGACTTCAAGAAGCGCG  
 GGTAGGAGTCCTTCTCCTCAGGGTACGTGTCTCCCTGAGCCCCATCAAGCATGTGGC  
 TGCGGAAGTCTGCAGGCTCATCCTACCCAATTCCTCCGGTCTCATGGCCACTGCTCACC  
 TCTTTAGGGGCTGACTGCTAATGACCTACTCAAAGACCTGGCGCGCCCTGAAGCCCACT  
 TGGCCATTGACCGGATCCTTTTCGACTCTACCCGCCCCCTCCCAATTCGGGACTTACTCC  
 CGACCCCTGCCCCCGAACCCTCCACGCAAACCTCCCCCTTCCACGATCCACAACCG  
 CCCCCACCTCTCCCCCACCCTTCTTATCCGGCACCGCCGCTTCCATTCCTTCCCTTCCCTA  
 ACCGACCCCCGAGCTTCCCCGCCCTCACACCTTCCCACTCCCTCCTCTCCCTTTGAG  
 AAGAATCCACCCCTCCACTCCAACACCTTTCTCCCTCCCCACGACGCGCCGCCACCCC  
 CCCTGTCCCACCCCGTTTTGTCCACGCAATCCCAACACCTCCCATCTCCGCCCCACT  
 TCCGACACTTTCCTCTCCCATCCTCCCCCACCACCCCGGCATTCCCATGTCACC  
 CCCTCCACCCCCACATCAGACACCCCGTCCCTCCCCGTTTTCCCTCCCTCCCTCCCTT  
 CTCCCCACCCCTATCCCTCCCTCGGCCGGCTCCCTCAGCCCCATCGTACCCCCACCT  
 GCCACCNTCTATCATTCCCCCTACCCCTTTCCTTCCCTTGCCTCTTCCCTCCCGC  
 ATTTCCCCCTCT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_002928

**Insert Size:**

880 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:**

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\\_002928.2](#), [NP\\_002919.2](#)

**RefSeq Size:** 2447 bp

**RefSeq ORF:** 609 bp

**Locus ID:** 6004

**UniProt ID:** [O15492](#)

**Cytogenetics:** 1q25.3

**Domains:** RGS

**Protein Families:** Druggable Genome

**Gene Summary:** The protein encoded by this gene belongs to the 'regulator of G protein signaling' family. It inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits. It also may play a role in regulating the kinetics of signaling in the phototransduction cascade. [provided by RefSeq, Jul 2008]