

Product datasheet for **SC306146**

RGS3 (NM_144489) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGS3 (NM_144489) Human Untagged Clone
Tag:	Tag Free
Symbol:	RGS3
Synonyms:	C2PA; RGP3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_144489 edited
 ATGGTAACGAGGAGGCCAGTCACAAATAGCTGGGACTGGCTTCCTGCCGGGGCGGCCCA
 GAGGCTGTCCCTTGCGAGACATGCCCTTTACGGCTCCCTCTCAGGGTTGCCAGAAG
 GAATTTTTTTTTCCGCTCCCTCCCTGGTCCCTCCATTTCTGGCTCCTCTGTCTGAG
 TCCAGCCCCGGCTTGTGCCTGGGAGTCCAGTCATCAGGCCAGGATTCCAGAGAGCGTGT
 GTGGCTGCAGCCTGCACCGTTGCTGCCCGCTGCCAGGACGCGGGGTGGGGGACAGGAGC
 CAGAGTGGTGCCTCCTACAGACCAATCTGCGGCCCAAGGTGGGGGGCCCTACAGAGATG
 CTCCGAGGCATGTACCTCACTCGCAACGGGAACCTGCAGAGGCGACACACGATGAAGGAA
 GCCAAGGACATGAAGAACAAGCTGGGGATCTTCAGACGGCGGAATGAGTCCCCTGGAGCC
 CCTCCCGGGCAAGGCAGACAAAATGATGAAGTCATTCAAGCCACCTCAGAGGAAGCC
 CTAAGTGGGGGAGTCCTTGGAGAAGCTGCTGGTTACAAAATACGGGTTAGCAGTGTT
 CAAGCCTTCCTTCGCACTGAGTTCAAGTGGAGGAGAATCTGGAGTTCTGGTTGGCTTGTGAG
 GACTTCAAGAAGGTCAAGTCACAGTCCAAGATGGCATCCAAGGCCAAGAAGATCTTTGCT
 GAATACATCGCGATCCAGGCATGCAAGGAGGTCAACCTGGACTCTACACGCGGGAGCAC
 ACCAAGGACAACCTGCAGAGCGTCACGCGGGGCTGCTTCGACCTGGCACAGAAGCGCATC
 TTCGGGCTCATGGAAAAGGACTCGTACCCTCGCTTTCTCCGTTCTGACCTCTACCTGGAC
 CTTATTAACCAGAAGAAGATGAGTCCCCGCTTTAGCAGAAGAAGATGAGTCCCCGCTT
 TAGGGGCCACTGGAGTCGAGCTCAGCGTTACACCAGGCGGGCTGGTCCCCTGCCACC
 TGCTCCTGCCCTGTGACGGAGGGGCAAGCAAGCCCCAGAGGCCGTGTCTGGA
 CAGACGGATAGACATACGGAAGCGAGGCTGGACCAAGAGAGGCCAGGCTACTGGAGGA
 GTAGAAGGATGGGCCCTGGGGTCCCCACTGCCCGGTACGAGGGGGCCCAAGACCCTG
 GCAGGTCA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_144489 unedited GTGACAATGTGTATACGACTCCTATAGGGCGGCCGCGTAATTCATGGTAACGAGGAGGCC AGTCACAAATATGCTGGGACTGGCTTCTGCCGGGGCGGCCCCAGAGGCTGTCCCTTGCA GACACATGCCCTTTACGGCTCCCTCTCAGGGTTGGCCAGAAGGAATTTTTTTTCCGC TCCCCCTCCTGGTCCCTCCATTTCCTGGCTCCTCCTGTCTGAGTCCCAGCCCCGGCTTG TGCCTGGGAGTCCAGTCATCAGGCCAGGATTCCAGAGAGCGTGTGTGGCTGCAGCCTGCA CCGTTGCTGCCCGCTGCCCAGGACGCGGGGTGGGGGACAGGAGCCAGAGTGGTGCCTCCT ACAGACCAATCTGCGGCCCAAGGTGGGGGCCCTACAGAGATGCTCCGAGGCATGTACC TCACTCGCAACGGGAACCTGCAGAGGCGACACACGATGAAGGAAGCCAAGGACATGAAGA ACAAGCTGGGGATCTTCAGACGGCGGAATGAGTCCCTGGAGCCCTCCCAGGGCAAGG CAGACAAAATGATGAAGTCATTCAAGCCACCTCAGAGGAAGCCCTCAAGTGGGGCGAGT CCTTGGAGAAGCTGCTGGTTCACAAATACGGGTAGCAGTGTCCAAGCCTTCTTCGCA CTGAGTTCAGTGAGGAGAATCTGGAGTTCTGGTTGGCTTGTGAGGACTTCAAGAAGTCA AGTCACAGTCCAAGATGGCATCCAAGGCCAAGAAGATCTTTGCTGAATACATCGTGATC CAGGCATGCAAGGAGGTCAACCTGGACTCTACACGCGGGAGCACACCAAGGACAACCTG CAGAGCGTCACGCGGGCTGCATTGACCTGGCACAGTAGCCGCATCTCCGCTCATGGTA AAGGACTCGTACCCTCGTTTTCTCGTTCCTGACCTCTACTGACGTGATGACCACAGAG GATGGAGTTACACCCCGGTTTTACAG
Restriction Sites:	Please inquire
ACCN:	NM_144489
Insert Size:	1200 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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<u>NM_144489.2</u> , <u>NP_652760.2</u>
RefSeq Size:	1773 bp
RefSeq ORF:	936 bp
Locus ID:	5998
UniProt ID:	<u>P49796</u>
Cytogenetics:	9q32

Protein Families: Druggable Genome

Protein Pathways: Axon guidance

Gene Summary: This gene encodes a member of the regulator of G-protein signaling (RGS) family. This protein is a GTPase-activating protein that inhibits G-protein-mediated signal transduction. Alternative splicing and the use of alternative promoters results in multiple transcript variants encoding different isoforms. Long isoforms are largely cytosolic and plasma membrane-associated with a function in Wnt signaling and in the epithelial mesenchymal transition, while shorter N-terminally-truncated isoforms can be nuclear. [provided by RefSeq, Jan 2013] Transcript Variant: This variant (5) lacks several 5' exons but includes an alternate 5' exon, and it thus differs in the 5' UTR, lacks a large portion of the 5' coding region, and uses an alternate start codon, compared to variant 6. The encoded isoform (5, also known as RGS3S in PubMed ID:12036301) has a significantly shorter and distinct N-terminus, compared to isoform 6.