

Product datasheet for **SC109729**

RGS3 (NM_134427) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGS3 (NM_134427) Human Untagged Clone
Tag:	Tag Free
Symbol:	RGS3
Synonyms:	C2PA; RGP3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_134427, the custom clone sequence may differ by one or more nucleotides

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ATGAAGAACAAGCTGGGGATCTTCAGACGGCGGAATGAGTCCCCTGGAGCCCCTCCCGGGCAAGGCAG
ACAAAATGATGAAGTCATTCAAGCCCACCTCAGAGGAAGCCCTCAAGTGGGGCGAGTCCTTGAGAAGCT
GCTGGTTCACAAATACGGGTTAGCAGTGTCCAAGCCTTCCTTCGCACTGAGTTCAGTGAGGAGAATCTG
GAGTTCGGTTGGCTTGTGAGGACTTCAAGAAGGTCAAGTCACAGTCCAAGATGGCATCCAAGGCCAAGA
AGATCTTTGCTGAATACATCGCGATCCAGGCATGCAAGGAGGTCAACCTGGACTCCTACACGCGGGAGCA
CACCAAGGACAACCTGCAGAGCGTCACGCGGGGCTGCTTCGACCTGGCACAGAAGCGCATCTTCGGGCTC
ATGAAAAAGGACTCGTACCCTCGCTTTTCCGTTCTGACCTCTACCTGGACCTTATTAACCAAGAAGAAGA
TGAGTCCCCCGCTTAG
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_134427 unedited GGATTTTGAATACGACTTACTATAGGGCGGCCGGAATTCGGCACCAGGTGAGGCCAAG CGCAGCAGCATGATCGAGACGGGCCAGGGGGCTGAGGGTGGCCTCTCACTGCGTGTGCAG AACTCGCTGCGGGCCGGACGCACAGCGAGGGCAGCCTGCTGCAGGAGCCCCGAGGGCCC TGCTTTGCCTCCGACACCACCTTGCACTGCTCAGACGGTGAGGGCGCCGCTCCACCTGG GGCATGCCCTTCGCCAGCACCTCAAGAAAGAGCTGGGCCGAATGGTGGCTCCATGCAC CACCTTTCCCTCTTCTTACAGGACACAGGAAGATGAGCGGGGCTGACACCGTTGGGGAT GATGACGAAGCCTCCCGAAGAGAAAGAGCAAAAACCTAGCCAAGGACATGAAGAACAAG CTGGGGATCTTACAGCGCGGAATGAGTCCCCTGGAGCCCTCCCGGGCAAGGCAGAC AAAATGATGAAGTCATTCAAGCCACCTCAGAGGAAGCCCTCAAGTGGGGCGAGTCTTG GAGAAGCTGCTGGTTCACAAATACGGGTAGCAGTGTTCAGCCTTCTTTCGCACTGAG TTCAGTGAGGAGAATCTGGAGTTCTGGTTGGCTTGTGAGGACTTCAAGAAGGTCAAGTCA CAGTCCAAGATGGCATCCAAGGCCAAGAAGATCTTTGCTGAATACATCGCGATCCAGGCA TGCAAGGAGGTCAACCTGGACTCTACACGCGGGAGCACACCAAGGACAACCTGCAGAGC GTCACGCGGGGCTGCTTCGACCTGGCACAGAAGCGCATCTTCGGGCTCATGGAAAGGACT CGTACCCTCGCTTCTCGTTCTGACCTTACCCTGGACCTTATTAACCAAGNAGAAGNAT GAGTCCCCCGCTTTAGGGGCCACTGNAGTCGAGCTCAGCGTTCACACCAGCGGGNCTGG GTCCCTGNCCACCTGCTCCTGCCCTGTGAACGAGGGGCAAGCAA
Restriction Sites:	NotI-NotI
ACCN:	NM_134427
Insert Size:	1750 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:	<u>NM_134427.1</u> , <u>NP_602299.1</u>
RefSeq Size:	1582 bp
RefSeq ORF:	507 bp
Locus ID:	5998
UniProt ID:	<u>P49796</u>
Cytogenetics:	9q32
Domains:	RGS

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 (4) 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 a downstream in-frame start codon, compared to variant 6. The encoded isoform (4, also known as RGS3S in PubMed ID:11330340) is significantly shorter at the N-terminus, compared to isoform 6. Both variants 4 and 9 encode isoform 4.