

## Product datasheet for **SC337851**

### RGS3 (NM\_001282923) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RGS3 (NM_001282923) Human Untagged Clone
Tag:	Tag Free
Symbol:	RGS3
Synonyms:	C2PA; RGP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001282923, the custom clone sequence may differ by one or more nucleotides

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ATGCCAGGACCGGTTCTGCTGCTTCACAGTCTCTTTATTCGTGTGGATGGATATGTCTATGTGTGTCT
CTCTTTCTCGCTGTGTGTGTGTATGTTTCCATTATCCACCCCAATGTCTGAATTCTCTTTAGTTAT
AGAAGGTAAGGCCTGATCAGCAAACAGCCTGGCACCTGTGATCCGTATGTGAAGATTTCTTTGATCCCT
GAAGATAGTAGACTACGCCACCAGAAGACGCAGACCGTTCCAGACTGCAGAGACCCGGCTTTCCACGAGC
ACTTCTTCTTTCTGTCCAAGAGGAGGATGATCAGAAGCGTCTCTTGGTTACTGTGTGGAACAGGGCCAG
CCAGTCCAGACAGAGTGGACTCATTGGCTGCATGAGCTTTGGGGTGAAGTCTCTCCTGACTCCAGACAAG
GAGATCAGTGGTTGGTACTACCTCCTAGGGGAGCACCTGGGCCGACCAAGCACTTGAAGGTGGCCAGGC
GGCGACTGCGGCCGCTGAGAGACCCGCTGCTGAGAATGCCAGGAGGTGGGGACACTGAGAATGGGAAGAA
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GTCCAGGCCGTGGATTCCGGGGGTCCGGCGGAACGGGCAGGGCTGCAGCAGCTGGACACGGTGTGCAGC
TGAATGAGAGGCCTGTGGAGCACTGGAAATGTGTGGAGCTGGCCACGAGATCCGGAGCTGCCCCAGTGA
GATCATCTACTCGTGTGGCGCATGGTCCCCAGGTCAAGCCAGGACCAGATGGCGGGTCTGCGGCGG
GCCTCTGCAAGTCGACACATGACCTCCAGTCAACCCCAACAACCGGGAGAAGAAGTGCACCCATGGGG
TCCAGGCACGGCCTGAGCAGCGCCACAGCTGCCACCTGGTATGTGACAGCTCTGATGGCTGCTGCTCGG
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ACTGCCCCACCGACCCCAACTACATCCTGGCCCCGCTGAATCCTGGGAGCCAGCTGCTCCGGCCTG
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GTATGAAGGGAGGAACAAGGCTGCCGAGGTGACACTGTTTGCCTATTCGGACCTGCTGCTCTTACCAAG
GAGGACGAGCCTGGCCGCTGCGACGTCTGAGGAACCCCTCTACCTCCAGAGTGTGAAGCTGCAGGAAG
GTTCTTCAGAAGACCTGAAATTCTGCTGCTCTATCTAGCAGAGAAGGCAGAGTCTTATCACTTTGGA

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AGCGCACTCGCAGGAGCAGAAGAAGAGAGTGTGCTGGTGCCTGTGCGGAGAACATCGCCAAGCAGCAACAG
CTGGCAGCATCACCCCGGACAGCAAGATGTTTGAGACGGAGGCAGATGAGAAGAGGGAGATGGCCTTGG
AGGAAGGGAAGGGGCTGGTGCCGAGGATCCCCACCCAGCAAGGAGCCCTCTCTGGCCAGGAGCTTCC
TCCAGGACAAGACCTCCACCCAACAAGGACTCCCCTTCTGGGCAGGAACCCGCTCCAGCCAAGAACCA
CTGTCCAGCAAAGACTCAGCTACCTCTGAAGGATCCCCCAGGCCAGATGCTCCGCCAGCAAGGATG
TGCCACCATGCCAGGAACCCCTCCAGCCAAGACCTCTACCCCTGCCAGGACCTACCTGCTGGTCAAGA
ACCCCTGCCTCACCAGGACCCCTACTACCCAAGACCTCCCTGCCATCCAGGAATCCCCACCCGGGAC
CTTCCACCTGTCAAGATCTGCCTCCTAGCCAGGTCTCCCTGCCAGCCAAGGCCCTTACTGAGGACCA
TGAGTCCCGGGACCTACTAGCAGCTACTGGGGACCCACCTGCGGCCCCAGGCCAGCCTTCGTGATCCC
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TGGCCTCTACTGCGTGTGCAGAACTCGCTGCGGCGCCGACGCACAGCAGGGCAGCCTGCTGCAGGAG
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CCTCTTCTCACAGGACACAGGAAGATGAGCGGGCTGACACCGTTGGGGATGATGACGAAGCCTCCCGG
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CCCCTGGAGCCCCTCCCGCGGGCAAGGCAGACAAAATGATGAAGTCATTCAAGCCACCTCAGAGGAAGC
CCTCAAGTGGGGCGAGTCCTTGGAGAAGCTGCTGGTTCACAAAACCGGGTTAGCAGTGTTCGAAGCCTTC
CTTCGCACTGAGTTCAGTGAGGAGAATCTGGAGTCTGGTTGGCTTGTGAGGACTTCAAGAAGGTCAAGT
CACAGTCCAAGATGGCATCCAAGCCAAGAAGATCTTTGCTGAATACATCGCGATCCAGGCATGCAAGGA
GGTCAACCTGGACTCCTACACGCGGGAGCACACCAAGGACAACCTGCAGAGCGTCACGCGGGGCTGCTTC
GACCTGGCACAGAAGCGCATCTTCGGGCTCATGGAAAAGGACTCGTACCCTCGTTTCTCCGTTCTGACC
TCTACCTGGACCTTATTAACCAGAAGAAGATGAGTCCCCCGCTTAG
    
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001282923

**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\\_001282923.1](#), [NP\\_001269852.1](#)

**RefSeq Size:** 4279 bp

**RefSeq ORF:** 3267 bp

**Locus ID:** 5998

UniProt ID: [P49796](#)

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 (10) uses an alternate 5' structure and thus differs in the 5' UTR and 5' coding region compared to variant 6. These differences cause translation initiation at an alternate AUG and result in an isoform (8) with a shorter and distinct N-terminus, compared to isoform 6.