

## Product datasheet for **SC318546**

### RGS3 (NM\_144488) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RGS3 (NM\_144488) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** RGS3  
**Synonyms:** C2PA; RGP3  
**Vector:** pCMV6 series  
**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_144488, the custom clone sequence may differ by one or more nucleotides

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ATGCCTGTAATCCCAGCACTTTGGGAGGTGAGATGGGCAGATCGCAAGGTCAGGAGATC
GAGACCATCCTGGCTAACAGGTCACATTCAGACAGCACACCTTTGCCAATTTTCTTTCT
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CTGAGGCTGTCCATTGATGCCAGGACCGGTTCTGCTGCTTACATTATAGAAGGTAAA
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GACCCGCTGCTGAGAATGCCAGGAGGTGGGGACACTGAGAATGGGAAGAACTAAAGATC
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CGCCACAGCTGCCACCTGGTATGTGACAGCTCTGATGGGCTGCTGCTCGGCGGCTGGGAG
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GGCACCTACGTACCCTGGCCCCAAAGTCTGGTGTTCCTGTCTTTGTTTCAGCCTCTA
GATCTCTGTAATCCTGCCCGACCTCTGCTGTGAGGAGCTGCTGCTGTATGAAGGG
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AGGAACAAGGCTGCCGAGGTGACACTGTTTGCCTATTCGGACCTGCTGCTCTTACCAAG
GAGGACGAGCCTGGCCGCTGCGACGTCCTGAGGAACCCCTCTACCTCCAGAGTGTGAAG
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AAATACGGTTTAGCAGTGTTCAGCCTTCTTTCGCACTGAGTTCAGTGAGGAGAATCTG
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AAGGCCAAGAAGATCTTTGCTGAATACATCGCGATCCAGGCATGCAAGGAGGTCAACCTG
GACTCTACACGCGGGAGCACACCAAGGACAACCTGCAGAGCGTCACGCGGGGCTGCTTC
GACCTGGCACAGAAGCGCATCTTCGGGCTCATGAAAAGGACTCGTACCCTCGCTTCTC
CGTTCTGACCTTACCTGGACCTTATTAACCAGAAGAAGATGAGTCCCCCGCTT

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- Restriction Sites:** Please inquire
- ACCN:** NM\_144488
- 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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_144488.4](#), [NP\\_652759.3](#)

**RefSeq Size:** 4643 bp

**RefSeq ORF:** 3597 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 (6) represents the longest transcript and encodes the longest isoform (6, also known as C2PA-RGS3).