

Product datasheet for **SC304530**

RGS3 (NM_017790) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGS3 (NM_017790) 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)



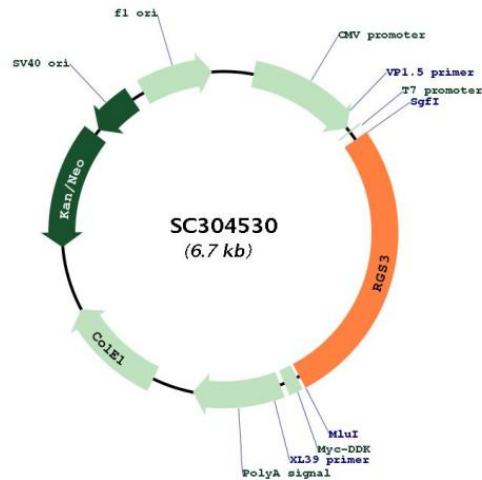
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Fully Sequenced ORF: >SC304530 representing NM_017790.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGAGCGCTCCCTGCACCGCTCTCCCTCGGGAGCCGGCGTGCCACCCGGACTTGTCTTCTACCTC
ACCACCTTTGGTCAGCTGAGGCTGTCCATTGATGCCAGGACCGGTTCTGCTGTTACATTATAGAA
GGTAAAGGCCTGATCAGCAAACAGCCTGGCACCTGTGATCCGTATGTGAAGATTTCTTTGATCCCTGAA
GATAGTAGACTACGCCACCAGAAGACGCAGACCGTTCCAGACTGCAGAGACCCGGCTTTCCACGAGCAC
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TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_017790

Insert Size: 1809 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: 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_017790.4](#)

RefSeq Size: 2593 bp

RefSeq ORF: 1809 bp

Locus ID: 5998

UniProt ID: [P49796](#)

Cytogenetics: 9q32

Protein Families: Druggable Genome

Protein Pathways: Axon guidance

MW: 67.3 kDa

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 (3) lacks several 5' and 3' exons but includes alternate 5' and 3' exons, and it thus differs in both UTRs and in the 5' and 3' coding regions, compared to variant 6. The encoded isoform (3) is shorter and has distinct N- and C-termini, compared to isoform 6.