OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC120479

RGS3 (NM_130795) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGS3 (NM_130795) Human Untagged Clone
Tag:	Tag Free
Symbol:	RGS3
Synonyms:	C2PA; RGP3
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF sequence for NM_130795 edited
GGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCATTTAGGTGACACTATA
GAATACAAGCTACTTGTTCTTTTTGCAGCGGCCGCGAATTCGGCACGAGGTGGGGGAGAG
CTGGGTTTTCATGGGGCGGCAGCCGAGGCAGGACCCGCAGCCATGAACCGCTTCAATGGG
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TACATCATCCTGGCCCCGCTGAATCCTGGGAGCCAGCTGCTCCGGCCTGTGTACCAGGAG
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GACGTCCTGAGGAACCCCCTCTACCTCCAGAGTGTGAAGCTGCAGGAAGGTTCTTCAGAA
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ACCTCTGAAGGATCCCCTCCAGGCCCAGATGCTCCGCCCAGCAAGGATGTGCCACCATGC
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CCCCTGCCTCACCAGGACCCTCTACTCACCAAAGACCTCCCTGCCATCCAGGAATCCCCC
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_130795 unedited
CCCCGCCCCGTTGNCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGA
GCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTTCTTTTTGCAGCGGCCGCGAAT
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GTCCAGGCCGTGGATTCCGGGGGTCCGGCGGAACGGGCAGGGCTGCAGCAGCTGGACACG
GTGCTGCAGCTGAATGAGAGGCCTGTGGAGCACTGGAAATGTGTGGAGCTGGCCCACGAG
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CCCCACCTGCCCCCGGTATGTCACCCCTCTCGAGGGCTGTCCTCCGCTTCCTCCCCCTAT
CACCCCGGTCCTCCCCTCCCCCCCCCCCCCCCCTGCCCGCCCCCCCCCCCCCATTCCCCCT
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CGCACCACCCCCCCCCCTCGCGCCCCCCAAAGCCCCCATCCCAAGCCTCCCCCCCCCCCG
TCTCCCCCGACCCACCCCCCACCTCCTCTCCCCCCCAACCCCCCCCCGCCCCCCCCCTAC
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3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_130795 unedited
GATCGTAGGCTTAAAAANCNNCCTCGACTTGGNCTACTGAGTGCGCNCTGAGGGTGCCAT
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AGACTGCAGTGTCCCCCCAGGCTGCCTTATTCCAGAAGGCCAGCTGCCTGCCACCGGTGC
CCGGGACGAGCATATCCCCTGAAGCTGGAGAATGGTTTTTTCTTTGCATGGCAGCTTCTC
CCAAGGCATTGGCTAAAATATTGCACTTGTAAATCATGAAAACTGATGAGGCAAGGGTTT
CCTATTACAGGACGACGTGCCAAGCATCCAACTACTATTTAAATAAATAAAACTCAAAGT
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GGGGGACTCCATCTTTCTTCTGGTTATTAACGGTCCGCGTTGGAGGTTCGGACCGGCGCA
AATCGTTGGGTCCCGGTCCCTCTTTTTTTGTTTCCTTTAAAATTCTCCTTTTGGCGCCAG
TGTTAAACACTCCCCAGTATGTAATACCATG
```

Restriction Sites: NotI-NotI

ACCN: NM_130795

Insert Size: 4000 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:
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_130795.2, NP_570613.2

RefSeq Size: 3741 bp

RefSeq ORF: 2754 bp

Locus ID: 5998

UniProt ID: P49796

Cytogenetics: 9q32

Domains: RGS, PDZ

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 (1) lacks several 5' exons but includes an alternate 5' exon, and it thus differs in the 5' UTR and 5' coding region, compared to variant 6. The encoded isoform (1, also known as PDZ-RGS3) has a shorter and distinct N-terminus, compared to isoform 6.