

Product datasheet for **RG224204**

RGS3 (NM_144489) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGS3 (NM_144489) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RGS3
Synonyms:	C2PA; RGP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224204 representing NM_144489 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTAACGAGGAGGCCAGTCACAAATAGCTGGGACTGGCTTCCTGCCGGGGCGGCCCCAGAGGCTGTCC
CTTGCAGACACATGCCCTTTACGGCTCCCTCTCAGGGTTGGCCAGAAGGAATTTTTTTTCCGCTCCC
CCTCCTGGTCCCTCCATTTCTGGCTCCTCTGTCTGAGTCCCAGCCCCGGCTTGTGCCTGGGAGTCCA
GTCATCAGGCCAGGATTCAGAGAGCGTGTGTGGCTGCAGCCTGCACCGTTGCTGCCCGTGCCCAAGGAC
GCGGGGTGGGGACAGGAGCCAGAGTGGTGCCTCTACAGACCAATCTGCGGCCCAAGGTGGGGGCCC
TACAGAGATGCTCCGAGGCATGTACCTCACTCGCAACGGGAACCTGCAGAGGCGACACAGATGAAGGAA
GCCAAGGACATGAAGAACAAGCTGGGGATCTTACAGCGCGGAATGAGTCCCCTGGAGCCCCTCCCGCGG
GCAAGGCAGACAAAATGATGAAGTCATTCAAGCCACCTCAGAGGAAGCCCTCAAGTGGGGCGAGTCCTT
GGAGAAGCTGCTGGTTCACAAATACGGGTAGCAGTGTCCAAGCCTTCTTCCGACTGAGTTCAGTGAG
GAGAATCTGGAGTCTGGTTGGCTTGTGAGGACTTCAAGAAGGTCAAGTCACAGTCCAAGATGGCATCCA
AGGCCAAGAAGATCTTTGCTGAATACATCGCGATCCAGGCATGCAAGGAGGTCAACCTGGACTCTACAC
GCGGGAGCACACCAAGGACAACCTGCAGAGCGTCACGCGGGGCTGCTTCGACCTGGCACAGAAGCGCATC
TTCGGGCTCATGGAAAAGGACTCGTACCCTCGCTTCTCCGTTCTGACCTCTACCTGGACCTTATTAACC
AGAAGAAGATGAGTCCCCCGCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG224204 representing NM_144489
Red=Cloning site Green=Tags(s)

MVTRRPV TNSWDWL PAGA APEAVPCRHMPL SRLPLRVGQKEFFFPLPLL VPPISWLLL SESQPRLVPGSP
 VIRPGFQRACVAAACTVAARCPGRGVGDRSQSGASYRPI CGPKVGGPTEMLRGMYL TRNGNLQRRHTMKE
 AKDMKNKLGIFRRRNESPGAPPAGKADKMMKSFKPTSEEALKWGESLEKLLVHKYGLAVFQAF LRTEFSE
 ENLEFWLACEDFKKVKQSQSKMASKAKKIFA EYIAIQACKEVNLD SYTREHTKDNLQSVTRGCFDLAQKRI
 FGLMEKDSYPRFLRSDLYLDLINQKKMSPPPL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_144489

ORF Size: 933 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_144489.3](#)

RefSeq Size: 1773 bp

RefSeq ORF: 579 bp

Locus ID: 5998

UniProt ID: [P49796](#)

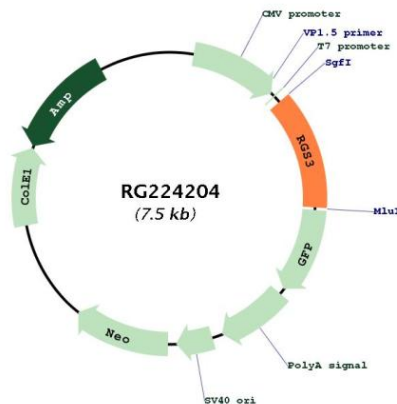
Cytogenetics: 9q32

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]

Product images:



Circular map for RG224204