

Product datasheet for **RC224671**

RGS3 (NM_144488) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RGS3 (NM_144488) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RGS3
Synonyms: C2PA; RGP3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC224671 representing NM_144488
Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >RC224671 representing NM_144488
 Red=Cloning site Green=Tags(s)

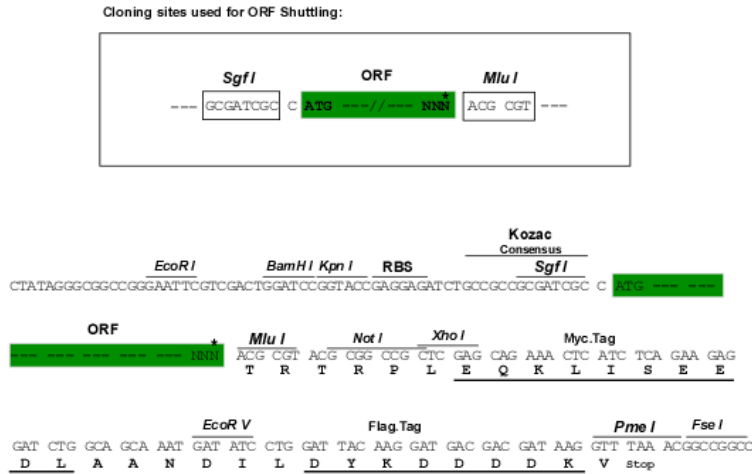
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Restriction Sites:

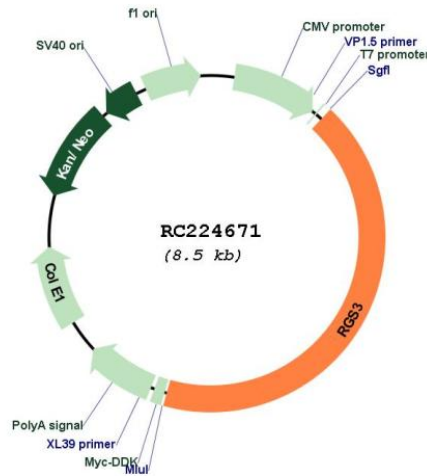
SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_144488

ORF Size: 3594 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_144488.6](#)

RefSeq Size: 4643 bp

RefSeq ORF: 3285 bp

Locus ID: 5998

UniProt ID: [P49796](#)

Cytogenetics: 9q32

Protein Families: Druggable Genome

Protein Pathways: Axon guidance

MW: 132.2 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]