

## Product datasheet for **RC231939**

### RGS3 (NM\_001276262) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RGS3 (NM\_001276262) 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:** >RC231939 representing NM\_001276262  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGAACAAGCTGGGGATCTTCAGACGGCGGAATGAGTCCCCTGGAGCCCCTCCCGGGCAAGGCAG  
 AAAAAATGATGAAGTCATTCAAGCCACCTCAGAGGAAGCCCTCAAGTGGGGCGAGTCTTGGAGAAGCT  
 GCTGGTTCACAAATACGGTTAGCAGTGTCCAAGCCTCCTTCGCACTGAGTTCAGTGAGGAGAATCTG  
 GAGTTCGGTTGGCTTGTGAGGACTTCAAGAAGGTCAAGTCACAGTCCAAGATGGCATCCAAGGCCAAGA  
 AGATCTTTGCTGAATACATCGCGATCCAGGCATGCAAGGAGGTCAACCTGGACTCCTACACGCGGGAGCA  
 CACCAAGGACAACCTGCAGAGCGTCACGCGGGGCTGCTTCGACCTGGCACAGAAGCGCATCTTCGGGCTC  
 ATGGAAAAGGACTCGTACCCTCGCTTCTCCGTTCTGACCTCTACCTGGACCTTATTAACCAGAAGAAGA  
 TGAGTCCCCCGCTT

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC231939 representing NM\_001276262  
 Red=Cloning site Green=Tags(s)

MKNKLGIFRRRNESPGAPPAGKADKMMKSFKPTSEEALKWGESLEKLLVHKYGLAVFQAFRLRTEFSEENL  
 EFWLACEDFKKVKSQSKMASKAKKIFAEYIAIQACKEVNLDSTREHTKDNLQSVTRGCFDLAQKRIFGL  
 MEKDSYPRFLRSDLYLDLINQKKMSPPL

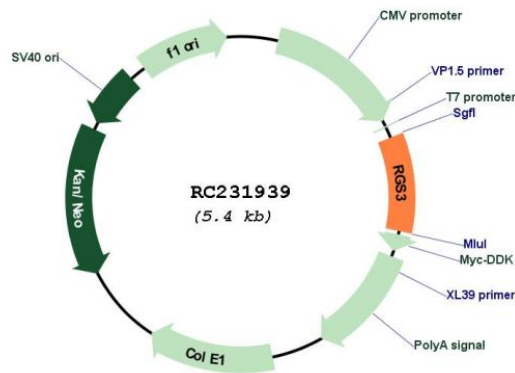
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001276262

**ORF Size:** 504 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001276262.2</a>
<b>RefSeq Size:</b>	1459 bp
<b>RefSeq ORF:</b>	507 bp
<b>Locus ID:</b>	5998
<b>UniProt ID:</b>	<a href="#">P49796</a>
<b>Cytogenetics:</b>	9q32
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Axon guidance
<b>MW:</b>	19.9 kDa
<b>Gene Summary:</b>	<p>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]</p>