

## Product datasheet for **RG224111**

### **RGS3 (NM\_021106) Human Tagged ORF Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | RGS3 (NM_021106) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                |
| Symbol:                   | RGS3                                    |
| Synonyms:                 | C2PA; PDZ-RGS3; RGP3                    |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | pCMV6-AC-GFP (PS100010)                 |
| E. coli Selection:        | Ampicillin (100 ug/mL)                  |



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**ORF Nucleotide Sequence:**

>RG224111 representing NM\_021106  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTTGAGACGGAGGCAGATGAGAAGAGGGAGATGGCCTTGAGGAAGGAAGGGCCCTGGTGCCGAGG  
 ATTCCCCACCCAGCAAGGAGCCCTCTCCTGGCCAGGAGCTTCTCCAGGACAAGACCTTCCACCCAACAA  
 GGACTCCCCTTCTGGGCAGGAACCCGCTCCCAGCCAAGAACCCTGTCCAGCAAAGACTCAGCTACCTCT  
 GAAGGATCCCCTCCAGGCCAGATGCTCCGCCAGCAAGGATGTGCCACCATGCCAGGAACCCCTCCAG  
 CCCAAGACCTCTCACCCTGCCAGGACCTACCTGCTGGTCAAGAACCCTGCCTCACCAGGACCTCTACT  
 CACCAAAGACCTCCCTGCCATCCAGGAATCCCCACCCGGGACCTTCCACCCTGTCAAGATCTGCCTCT  
 AGCCAGGTCTCCCTGCCAGCCAAGGCCCTTACTGAGGACACCATGAGCTCCGGGGACCTACTAGCAGCTA  
 CTGGGGACCCACCTGCGGCCCCAGGCCAGCCTTCGTGATCCCTGAGGTCCGGCTGGATAGCACCTACAG  
 CCAGAAGGCAGGGGCAGAGCAGGGCTGCTCGGGAGATGAGGAGGATGCAGAAGAGGCCGAGGAGGTGGAG  
 GAGGGGGAGGAAGGGGAGGAGGACGAGGATGAGGACACCAGCGATGACAACCTACGGAGAGCGCAGTGAGG  
 CCAAGCGCAGCAGCATGATCGAGACGGGCCAGGGGGCTGAGGGTGGCCTCTCACTGCGTGTGCAAGACTC  
 GCTGCGGCCCGGACGCACAGCGAGGGCAGCCTGCTGCAGGAGCCCCGAGGGCCCTGCTTTGCTCCGAC  
 ACCACCTTGCACTGCTCAGACGGTGAAGGGCGCCCTCCACCTGGGGCATGCCTTCGCCCAGCACCTCA  
 AGAAAGAGCTGGGCCGCAATGGTGGCTCCATGCACCACCTTCCCTCTTCTTACAGGACACAGGAAGAT  
 GAGCGGGCTGACACCGTTGGGGATGATGACGAAGCCTCCCGGAAGAGAAAGAGCAAAAACCTAGCCAAG  
 GACATGAAGAACAAGCTGGGGATCTTCAAGCCACCTCAGAGGAAGCCCTCAAGTGGGGCAGCTCTTGGAGAA  
 CAGACAAAATGATGAAGTCATTCAGCCACCTCAGAGGAAGCCCTCAAGTGGGGCAGCTCTTGGAGAA  
 GCTGCTGGTTCAAAAATACGGGTTAGCAGTGTTCCAAGCCTTCTTCGCACTGAGTTCAGTGAGGAGAAT  
 CTGGAGTTCTGGTTGGCTTGTGAGGACTTCAAGAAGGTCAAGTCACAGTCCAAGATGGCATCCAAGGCCA  
 AGAAGATCTTTGCTGAATACATCGCATCCAGGCATGCAAGGAGGTCAACCTGGACTCCTACACGCGGGA  
 GCACACCAAGGACAACCTGCAGAGCGTCACGCGGGGCTGCTTCGACCTGGCACAGAAGCGCATCTTCGGG  
 CTCATGAAAAGGACTCGTACCCTCGCTTCTCCGTTCTGACCTTACCTGGACCTTATTAACCAGAAGA  
 AGATGAGTCCCCCGCTT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG224111 representing NM\_021106  
 Red=Cloning site Green=Tags(s)

MFETEADKREMALEEGKPGAEDSPPSKEPSPGQELPPGQDLPPNKDSPSGQEPAPSQEPPLSSKDSATS  
 EGSPPPDAPPKDVPPCQEPPPAQDLSPCQDLPAGQEPLPHQDPLLTKDLPAIQESPTRDLPPCQDLPP  
 SQVSLPAKALTEDTMSSGDLLAATGDPPAAPRAAFVIPEVRLDSTYSQKAGAEQGCSDGDEEAEAEVE  
 EGEEGEDEDEDTSDNYGERSEAKRSSMIETGQGAEGGLSLRVQNSLRRRTHSEGSLLQEPGRCFASD  
 TTLHCSDEGAASTWGMPSSTLKKELGRNGSMHHLSLFFTGHRKMSGADTVGDDDEASRKRKSKNLAK  
 DMKNKLGIFRRRNE SPGAPPAGKADKMMKSFKPTSEEALKWGESLEKLLVHKYGLAVFQAFRLRTEFSEEN  
 LEFWLACEDFKKVKVSKMASKAKKIFAEYIAIQACKENVLDSYTREHTKDNLQSVTRGCFDLAQKRIFG  
 LMEKDSYPRFLRSDLYLDLINQKKMSPPL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_021106

**ORF Size:** 1557 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\\_021106.3](#), [NP\\_066929.1](#)

**RefSeq Size:** 2914 bp

**RefSeq ORF:** 1559 bp

**Locus ID:** 5998

**Cytogenetics:** 9q32

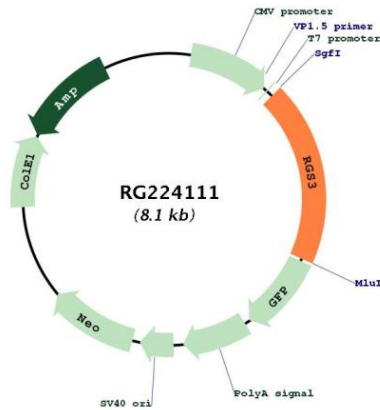
**Domains:** RGS

**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 RG224111