

## Product datasheet for **RG212467**

### **RGS8 (NM\_001102450) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RGS8 (NM\_001102450) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** RGS8  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG212467 representing NM\_001102450  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCCTTACTGATGCCACGCAGGAACAAAGGGATGAGGACTCGACTGGGATGCCTGTCTCACAAGT  
CAGACTCGTGTAGTGATTTACAGCTATTCTTCCAGACAAACCAACCGCGCTCTCAAGAGATTATCGAC  
AGAAGAAGCTACGAGGTGGGCAGATTCCCTTTGATGTGCTTCTCTCATAAGTATGGGGTGGCTGCATTC  
CGTGCCCTTCTTGAAGACGGAGTTCAGTGAGGAGAACCTGGAATCTGGTTGGCCTGTGAGGAGTTCAAGA  
AGACCAGGTCAACTGCAAACTGGTCTCTAAGGCCCATAGGATCTTTGAGGAGTTTGGATGTGCAGCG  
TCCACGGGAGGTAACATTGACTTCCAGACCCGAGAAGCCACGAGGAAGAACCTGCAGGAGCCATCCCTG  
ACTTGCTTTGACCAAGCCCAAGGAAAAGTACACAGCCTCATGGAGAAAGACTCTTACCCAGGTTCTCTGA  
GGTCCAAATGTACTTAGATCTGCTGTCCCAAAGCCAGAGGAGGCTCAGT

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:** >RG212467 representing NM\_001102450  
**Red=Cloning site Green=Tags(s)**  
MAALLMPRRNKGMRTRLGCLSHKSDSCSDFTAILPDKPNRALKRLSTEEATRWADSFVLLSHKYGVAAF  
RAFLKTEFSEENLEFWLACEEFKKTRSTAKLVSKAHRIFEEFVDVQAPREVNIDFQTREATRKNLQEPSL  
TCFDQAQGVHSLMEKDSYPRFLRSKMYLDLLSQSQRRLS

**TRTRPLE - GFP Tag - V**

**Restriction Sites:** Sgfl-MluI

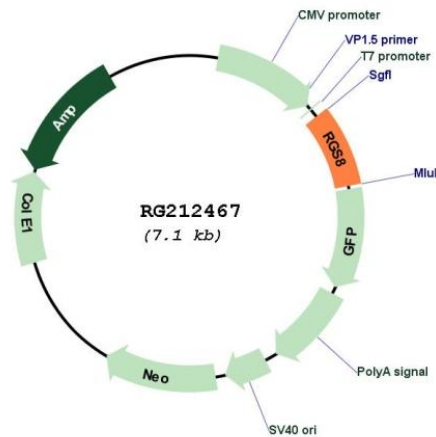


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001102450

ORF Size: 540 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>	<u>NM_001102450.3</u>
<b>RefSeq Size:</b>	912 bp
<b>RefSeq ORF:</b>	543 bp
<b>Locus ID:</b>	85397
<b>UniProt ID:</b>	<u>P57771</u>
<b>Cytogenetics:</b>	1q25.3
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	This gene is a member of the regulator of G protein signaling (RGS) family and encodes a protein with a single RGS domain. Regulator of G protein signaling (RGS) proteins are regulatory and structural components of G protein-coupled receptor complexes. They accelerate transit through the cycle of GTP binding and hydrolysis to GDP, thereby terminating signal transduction, but paradoxically, also accelerate receptor-stimulated activation. [provided by RefSeq, Jul 2008]