

## Product datasheet for **RG230757**

### **RGS5 (NM\_001195303) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RGS5 (NM\_001195303) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** RGS5  
**Synonyms:** MST092; MST106; MST129; MSTP032; MSTP092; MSTP106; MSTP129  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG230757 representing NM\_001195303  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGCAAAGGACTTGCAGCTTTGCCCACTCATGCCTGGAAAGGGCCAAGGAGATTAAGATCAAGTTGG  
GAATTCTCCTCCAGAAGCCAGACTCAGTTGGTACCTTGTCAATCCGTACAATGAGAAGCCAGAGAAACC  
AGCCAAGACCCAGAAAACCTCGCTGGACGAGGCCCTGCAGTGGCGTGATCCCTGGACAACTCCTGCAG  
AACAACTATGGACTTGCCAGTTTCAAAGTTTCTGAAGTCTGAATTCAGTGAGGAAAACCTTGAGTTCT  
GGATTGCCTGTGAGGATTACAAGAAGATCAAGTCCCTGCCAAGATGGCTGAGAAGGCAAAGCAAATTTA  
TGAAGAATTCATTCAAACGGAGGCTCCTAAAGAGGTGAATATTGACCACTTCACTAAGGACATCACAAATG  
AAGAACCTGGTGGAACTTCCCTGAGCAGCTTTGACATGGCCAGAAAAGAAATCCATGCCCTGATGGAAA  
AGGATTCTCTGCCTCGCTTTGTGCGCTCTGAGTTTATCAGGAGTTAATCAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG230757 representing NM\_001195303  
Red=Cloning site Green=Tags(s)

MCKGLAALPHSCLERAKEIKIKLGILLQKPDVSVGLVIPYNEKPEKPAKTQKTSLEALQWRDSLKLLQ  
NNYGLASFSLKSEFSEENLEFWIACEDYKKIKSPAKMAEKAKQIYEFEIQTEAPKEVNIHFTKIDITM  
KNLVEPSLSSFDMAQKRIHALMEKDSLPRFVRFSEFYQELIK

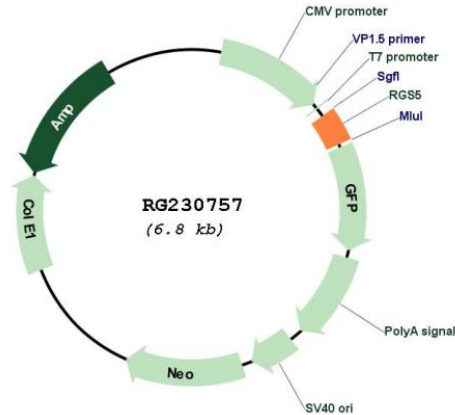
**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001195303

**ORF Size:** 546 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_001195303.2, NP_001182232.1</u>
<b>RefSeq Size:</b>	5764 bp
<b>RefSeq ORF:</b>	222 bp
<b>Locus ID:</b>	8490
<b>UniProt ID:</b>	<u>O15539</u>
<b>Cytogenetics:</b>	1q23.3
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	This gene encodes a member of the regulators of G protein signaling (RGS) family. The RGS proteins are signal transduction molecules which are involved in the regulation of heterotrimeric G proteins by acting as GTPase activators. This gene is a hypoxia-inducible factor-1 dependent, hypoxia-induced gene which is involved in the induction of endothelial apoptosis. This gene is also one of three genes on chromosome 1q contributing to elevated blood pressure. Alternatively spliced transcript variants have been identified. [provided by RefSeq, Dec 2011]