

Product datasheet for **SC332267**

RGS5 (NM_001254749) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: RGS5 (NM_001254749) Human Untagged Clone
Tag: Tag Free
Symbol: RGS5
Synonyms: MST092; MST106; MST129; MSTP032; MSTP092; MSTP106; MSTP129
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC332267 representing NM_001254749.
Blue=Insert sequence **Red**=Cloning site **Green**=Tag(s)

```
ATGTGCAAAGGACTTGCAGCTTTGCCCACTCATGCCTGGAAAGGGCCAAGGAGATTAAGATCAAGTTG
GGAATTCTCCTCCAGAAGCCAGACTCAGTTGGTGACCTTGTCATTCCGTACAATGAGAAGCCAGAGAAA
CCAGCCAAGACCCAGAAAACCTCGCTGGACGAGGCCCTGCAGTGGCGTGATTCCTGGACAACTCCTG
CAGAACAACACTATGGACTTGCCAGTTTCAAAGTTTCTGAAGTCTGAATTCAGTGAGGAAAACCTTGAG
TTCTGGATTGCCTGTGAGGATTACAAGAAGATCAAGTCCCCTGCCAAGATGGCTGAGAAGGCAAAGCAA
ATTTATGAAGAATTCATTCAAACGGAGGCTCCTAAAGAGGTTGGTCTCTGGGTGAATATTGACCACTTC
ACTAAGGACATACAATGAAGAACCTGGTGAACCTTCCCTGAGCAGCTTTGACATGGCCCAGAAAAGA
ATCCATGCCCTGATGGAAAAGGATTCTCTGCCTCGCTTTGTGCGCTCTGAGTTTTATCAGGAGTTAATC
AAGTAG
```

Restriction Sites: SgfI-MluI
ACCN: NM_001254749
Insert Size: 558 bp
OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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).



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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_001254749.1](#)

RefSeq Size: 5949 bp

RefSeq ORF: 558 bp

Locus ID: 8490

UniProt ID: [O15539](#)

Cytogenetics: 1q23.3

Protein Families: Druggable Genome

MW: 21.4 kDa

Gene Summary: 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]

Transcript Variant: This variant (4) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1, resulting in an isoform (3) that is longer than isoform 1.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.