

## Product datasheet for **SC117891**

### **RGS5 (NM\_003617) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RGS5 (NM_003617) Human Untagged Clone
Tag:	Tag Free
Symbol:	RGS5
Synonyms:	MST092; MST106; MST129; MSTP032; MSTP092; MSTP106; MSTP129
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117891 sequence for NM_003617 edited (data generated by NextGen Sequencing)

```
ATGTGCAAAGGACTTGCAGCTTTGCCCACTCATGCCTGGAAAGGCCAAGGAGATTAAG
ATCAAGTTGGGAATTCTCCTCCAGAAGCCAGACTCAGTTGGTGACCTTGTCATTCCGTAC
AATGAGAAGCCAGAGAAACCAGCCAAGACCCAGAAAACCTCGCTGGACGAGGCCCTGCAG
TGGCGTGATTCCCTGGACAACTCCTGCAGAACAATATGGACTTGCCAGTTTCAAAGT
TTCCTGAAGTCTGAATTCAGTGAGGAAAACCTTGAGTTCTGGATTGCCTGTGAGGATTAC
AAGAAGATCAAGTCCCCTGCCAAGATGGCTGAGAAGGCAAAGCAAATTTATGAAGAATTC
ATTCAAACGGAGGCTCCTAAAGAGGTGAATATTGACCACTTCACTAAGGACATCACAATG
AAGAACCTGGTGGAACTTCCCTGAGCAGCTTTGACATGGCCCAGAAAAGAATCCATGCC
CTGATGGAAAAGGATTCTCTGCCTCGCTTTGTGCGCTCTGAGTTTATCAGGAGTTAATC
AAGTAG
```

Clone variation with respect to NM\_003617.3



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_003617 unedited  
 GGTTC AAGAATTTGTAATCACGACTCACTATNAGGGCGGACCGCCAATTCGGCACGAGG  
 GTTTTCAAAGACTGGCTCTGCTGTTAAGAAGTTGTA CTAAAGCGGAGGAGCTAAGCCAC  
 CTGCCAAAATGTGCAAAGGACTTGCAGCTTTGCCCACTCATGCCTGGAAAGGGCCAAGG  
 AGATTAAGATCAAGTTGGGAATTCTCCTCCAGAAGCCATACTCAGTTGGTGACCTGTCA  
 TTCCGTACAATGAGAAGCCAGAGAAACCCAGCCAAGACCCAGAAAACCTCGCTGGACGAGG  
 CCCTGCAGTGGCGTGATTCCCTGGACAACTCCTGCAGAACAACATGGACTTGCAGTT  
 TCAAAAGTTTCTGAAGTCTGAATTCAGTGAGGAAAACCTTGAGTTCTGGATTGCCTGTG  
 AGGATTACAAGAAGATCAAGTCCCTGCCAAGATGGCTGAGAAGGCAAAGCAAACCTTATG  
 AAGAATTCATTCAAACGGAGGCTCCTAAAGAGGTGAATATTGACCACTTCACTAAGGACA  
 TCACAATGAAGAACCCTGGTGAACCTTCCCTGAGCAGCNTTGACATGGCCAGAAAAGA  
 ATCCATGCCCTGATGGAAAAGATTTCTCTGCCCTCCTTTGTGCGCTCTGAGTTTTATC  
 AGGAGTTAATCAAGCAGTAATTTACCCAGGCTATGAAATATCCTGTGAGTTATTTCTCC  
 ATATAACCCTGCTTTTCCCTTAATCAACTATCTTCCACACAGCTTTTGTAGTGAACCC  
 ACCTGGGAAAAAACCCAGGGGAAGGTGCTTACTCTTTTTTGGCCACCCTGCTTTGGATAC  
 TTATCTACTCGTCCGAAAGCCTTTTTTCCGCCCAATTTTTCTGCCCTGTTTATAAATA  
 AACAATCTTCCACTTGGN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_003617 unedited  
 CGCGGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTGGAAAATGCAGTGTACCT  
 TAAAAGTGTCTCACCTAGAAGGCCTCTACCTGTAATCACATTAATTTTTCTAAAGACAAT  
 TTGGTGTTTTGAAGATAAATGTCATTAGTCTATGATAATAGCATCATAGGACAATTAGCC  
 ATTTTAGACTTGACCATATTTTCTTTTTTAGCATATAGCCATCTTGATATTTAGGTGGG  
 AGACTACTCCAATGGAGCAACAGTTTCATTTTACATGATTGGATTAGAAATTTACAAAT  
 TTTAAACTCATAAGAATTCTAAATAATTTGAAAATGAAAACATTTGACCCACAGTCTAGC  
 AGCATAAATACATTTATAAAATACTTTCATTGTTGATCTTAGGTCATTGATTTAAAACAGA  
 ATTTGGTGACTATGGGCAGTGGAGGGGGCCAGTGAGGAAGGTATAAAAGAGAAATCTTT  
 ATGAATTTGTTCAGATTGATTTTGTATAAACATAATATATTCATGGTTGTATCTCTTAT  
 TTATAATACCCAATAACATGAAGTGGTCCAAGGGAAGGATCAATATTTTAAATAACAT  
 ATTTGCTTAAAATATCATAACAGTGGCTGCTTCATAAAAAATCTTATAAACTTTTATTAACC  
 CAAGTCAGAAAATATTAGAGGGGTGATCTCCCTGGATCAGAATAAAACCCAGTGAGATCAA  
 TTAAGTCTCTTTTGAATAGGTCTGTCCACTTATATTCTTTTTAGACCATTTAGCTGGA  
 ATCTATTACTACCCACATCATGAATCATAGNCTGGGCTATATTCCTTGGCTTAGCAGAT  
 TTTTCTGGGATCTGATTGGCCTGACTACAGCTGAGAATTTAATTATACCGGGNCAGAGA  
 ATGGATGGGAA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_003617

**Insert Size:**

1770 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).

**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\\_003617.2](#), [NP\\_003608.1](#)

**RefSeq Size:** 5848 bp

**RefSeq ORF:** 546 bp

**Locus ID:** 8490

**UniProt ID:** [O15539](#)

**Cytogenetics:** 1q23.3

**Domains:** RGS

**Protein Families:** Druggable Genome

**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 (1) encodes isoform 1 (also known as RGS5), which is present in both the membrane and cytosolic fractions. 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.