

## Product datasheet for **RC233386**

### RGS5 (NM\_001254749) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RGS5 (NM\_001254749) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** RGS5  
**Synonyms:** MST092; MST106; MST129; MSTP032; MSTP092; MSTP106; MSTP129  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC233386 representing NM\_001254749  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTGCAAAGGACTTGCAGCTTTGCCCACTCATGCCTGGAAAGGGCCAAGGAGATTAAGATCAAGTTGG  
 GAATTCTCCTCCAGAAGCCAGACTCAGTTGGTACCTTGTCAATCCGTACAATGAGAAGCCAGAGAAACC  
 AGCCAAGACCCAGAAAACCTCGCTGGACGAGGCCCTGCAGTGGCGTGATCCCTGGCAAACCTCTGCAG  
 AACAACTATGGACTTGCCAGTTTCAAAGTTTCTGAAGTCTGAATTCAGTGAGGAAAACCTTGAGTTCT  
 GGATTGCCTGTGAGGATTACAAGAAGATCAAGTCCCTGCCAAGATGGCTGAGAAGGCAAAGCAAATTTA  
 TGAAGAATTCATTCAAACGGAGGCTCCTAAAGAGTTGGTCTCTGGGTGAATATTGACCACTTCACTAAG  
 GACATCACAATGAAGAACCTGGTGAACCTTCCCTGAGCAGCTTTGACATGGCCCAGAAAAGAAATCCATG  
 CCCTGATGGAAAAGGATTCTCTGCCTCGCTTTGTGCGCTCTGAGTTTTATCAGGAGTTAATCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC233386 representing NM\_001254749  
 Red=Cloning site Green=Tags(s)

MCKGLAALPHSCLERAKEIKIKLIGILLQKPDVSGDLVIPYNEKPEKPAKTQKTSLDEALQWRDSLKLLQ  
 NNYGLASFKSFLKSEFSEENLEFWIACEDYKIKSPAKMAEKAKQIYEEFIQTEAPKEVGLWVNIIDHFTK  
 DITMKNLVEPSLSSFDMAQKRIHALMEKDSLPRFVRFSEFYQELIK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



**Cloning Scheme:**


**ACCN:** NM\_001254749

**ORF Size:** 555 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\\_001254749.2](#)

**RefSeq Size:** 5949 bp

**RefSeq ORF:** 558 bp

**Locus ID:** 8490

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

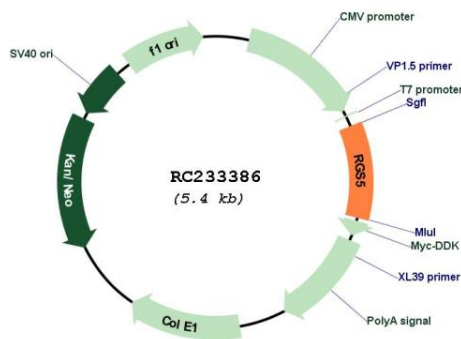
**Cytogenetics:** 1q23.3

**Protein Families:** Druggable Genome

**MW:** 21.9 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]

**Product images:**



Circular map for RC233386