

## Product datasheet for **MR230076**

### **Rgs6 (NM\_001282061) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rgs6 (NM_001282061) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rgs6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR230076 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCTCAGGGGTCGGGGACCAGCGAGCAGTGGGGATCGCTGATCCAGAAGAGAGTTCTCCCAACATGA  
 TTGTCTACTGCAAAATTGAGGACATCATTACAAAGATGCAAGATGACAAGACAGGGGGTGTGCCATCAG  
 AACAGTTAAGAGCTTTCTCTCCAAAATCCCCAGTGTCTGTCACAGGTAAGTACTGACATTGTACAGTGGCTTATG  
 AAGAACCTTTCCATTGAGGACCCAGTTGAAGCAATACACCTGGGAAGCCTTATTGCCGCCAGGGCTACA  
 TCTTCCCAATCTCAGACCATGTTCTCACCATGAAGGACGATGGCACCTTTTACCGTTTCCAGGCTCTTA  
 CTTCTGGCCTTCAAAGCTGCTGGGAACCTGAAAACACGGACTATGCCATCTATCTCTGTAAGAGGACGATG  
 CAGAACAAGCAAGGCTGGAAGTGGCCGACTACGAAGCAGAAAACCTTAGCAAGACTCCAGAGGGCCTTTG  
 CAAGGAAGTGGGAATTCATCTTTATGCAAGCAGAAGCACAAGTGAAGATTGACCGGAAAAAGGATAAGAC  
 AGAAAGAAAAATCTGGATAGCCAAGAAGCGGCCCTTCTGGGATGTCCACAGGCCAGTCCAGGCTGTGTG  
 AACACAACAGAAATGGATATCAGAAAATGTCGGCGTTTGAAGAATCCACAAAAGGTTAAAAAGTCAGTAT  
 ATGGTGTGACAGACGAGACCCAGTCCAGAGTCCAGTGCACATACCAAGCCAGCCAAATCAGGAAAACATC  
 AAAAGATGACATCCGAAAACAGATAACGTTTTTGAATGCACAGATTGACAGACATTGTTTAAAAATGTCC  
 AAAGTGGCTGAAAGTTTAAATCGCTTACACGGAGCAGTATGTGGAGTACGACCCATTACATAACACCAGCAG  
 AGCCATCTAATCCTTGGATCAGCGATGACATCACCTTATGGGACATAGAGATGAGCAAAGAGCCAGCCA  
 GCAGCGAGTGAAGCGTTGGGGCTTCTCTTTTGTGAGATACTGAAGGACCAGGTGGGGCGGGACCAGTTC  
 CTCAGATTCTGGAGTCAAGAATTCAGCTCAGAAAATCTCAGGTTCTGGCTGTCTGTCCAAGATCTCAAGA  
 AGCAACCTCTACAGGACGTGGCCAGAGGGTGGAGGAAATCTGGCAAGAGTTTCTAGCTCCCGGAGCCCC  
 AAGTGCAATCAACTTGGATTCTCACAGCTATGAGATAACCAAGTCAAGTGTCAAAGATGGAGGGAGATAC  
 ACATTTGAAGATGCCAGGAGCAGTCTACAAGCTGATGAAGAGTACAGCTATGCCCGCTTCTACGGT  
 CCAACGCTTACCAGGATCTGTTGCTGGCCAAGAAGAAGGAAAGTCTGCTGGCGGGCAAGCGCCTTACGGG  
 CCTGATGCAGTCTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230076 protein sequence  
 Red=Cloning site Green=Tags(s)

MAQSGDQRAVGIADPEESSPNMIVYCKIEDIITKMQDDKGGVPIRTVKSFLSKIPSVVTGTDIVQWLM  
 KNLSIEDPVEAIHLGSLIAAQGYIFPISDHVLTMKDDGTFYRFQAPYFWPSNCWEPENTDYAIYLCKRTM  
 QNKARLELADYEAEENLARLQRAFARKWEIFMQAEQVKIDRKKDKTERKILDSQERAFWDVHRPVPQCV  
 NTTEMDIRKCRRLKNPQVKKSVMYGVVDETSQSPVHIPSQPIRKTTKDDIRKQITFLNAQIDRHCLKMS  
 KVAESLIAYTEQYVEYDPFITPAEPPNPWISDDITLWDIEMSKEPSQQRVWRWGFSEILKQDQVGRDQF  
 LRFLESEFSSENLRFWLSVQDLKKQPLQDVAKRVEEIQWQFLAPGAPSAINLDSHSYEITSQNVKDGGRY  
 TFEDAQEHYKLMKSDSYARFLRSNAYQDLLAKKKGKSLAGKRLTGLMQSS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001282061

**ORF Size:** 1419 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\\_001282061.2](#), [NP\\_001268990.1](#)

**RefSeq Size:** 2345 bp

**RefSeq ORF:** 1419 bp

**Locus ID:** 50779

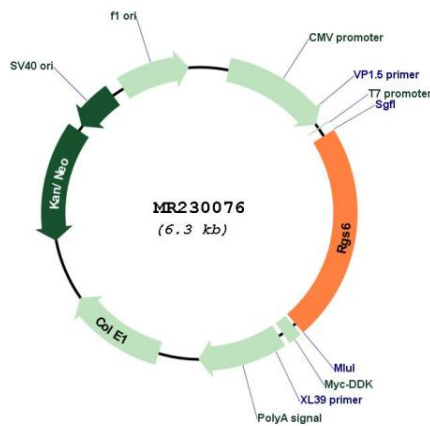
**UniProt ID:** [Q9Z2H2](#)

**Cytogenetics:** 12 38.14 cM

**MW:** 54.5 kDa

**Gene Summary:** This gene encodes a member of the RGS (regulator of G protein signaling) family of proteins, which are defined by the presence of a RGS domain that confers the GTPase-activating activity of these proteins toward certain G alpha subunits. This protein also belongs to a subfamily of RGS proteins characterized by the presence of DEP (Dishevelled, Egl-10, and Pleckstrin) and GGL (G-protein gamma like) domains, the latter a G beta 5-interacting domain. The RGS proteins negatively regulate G protein signaling, and may modulate neuronal, cardiovascular, lymphocytic activities, and cancer risk. Mice lacking this gene exhibit decreased heart rate. Alternative splicing results in multiple transcript variants, however, the full-length nature of some of these variants is not known. [provided by RefSeq, Sep 2015]

**Product images:**



Circular map for MR230076