

## Product datasheet for MR201610

### Rgs8 (NM\_026380) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rgs8 (NM\_026380) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Rgs8  
**Synonyms:** 6530413N01Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201610 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTGCCTTACTGATGCCACGCAGGAACAAAGGCATGAGGACTCGACTGGGGTGCCTGTCACACAAAT  
 CAGACTCTGCAGTGACTTCACTGCCATCTCCCTGACAAACCAACCGTCTCAAGAGACTCTCCAC  
 GGAAGAAGCAACGAGGTGGGCGGAGTCTTTCGATGTGCTTCTCTCATAAGTATGGGGTGGCAGCCTTC  
 CGTGCCTTCTGAAGACGGAGTTCAGCGAGGAGAACTGGAGTCTGGCTGGCCTGCGAGGAGTTCAAGA  
 AGACCAGGTCAACTGCAAAGCTAGTCACCAAGGCCACAGGATCTTTGAGGAGTTTGTGGATGTGCAGGC  
 TCCACGGGAGGTGAATATCGATTTCCAGACCCGAGAGGCCACGAGGAAGAACATGCAAGAGCCATCCCTG  
 ACTTGTGTTTATCAAGCTCAGGAAAAGTCCACAGCCTCATGGAGAAAAGACTCCTACCCTAGGTTCTCTGA  
 GGTCCAAATGTACTTAGATCTGCTGTCCAGAGCCAGAGGAGGCTCAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201610 protein sequence  
 Red=Cloning site Green=Tags(s)

MAALLMPRRNKGMRTLGLCLSHKSDSCSDFTAILPDKPNRALKRLSTEEATRWAESFDVLLSHKYGVAAP  
 RAFLKTEFSEENLEFWLACEEFKTRSTAKLVTKAHRIFEEFVDVQAPREVNIDFQTREATRKNMQEPL  
 TCFDQAQGVHSLMEKDSYPRFLRSKMYLDLLSQSQRRLS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



**Cloning Scheme:**


**ACCN:** NM\_026380

**ORF Size:** 543 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\\_026380.3](#), [NP\\_080656.2](#)

**RefSeq Size:** 5827 bp

**RefSeq ORF:** 543 bp

**Locus ID:** 67792

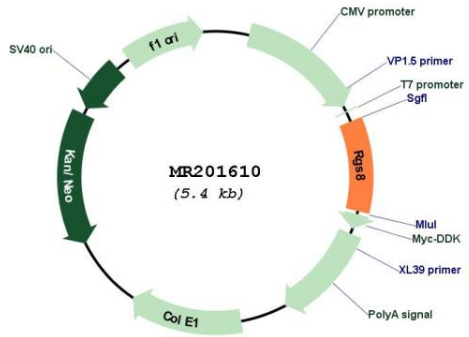
**UniProt ID:** [Q8BXT1](#)

**Cytogenetics:** 1 65.41 cM

**MW:** 21 kDa

**Gene Summary:** Regulates G protein-coupled receptor signaling cascades, including signaling via muscarinic acetylcholine receptor CHRM2 and dopamine receptor DRD2. Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits, thereby driving them into their inactive GDP-bound form. Modulates the activity of potassium channels that are activated in response to DRD2 and CHRM2 signaling.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR201610