

## Product datasheet for **MC216291**

### **Rgs7 (NM\_011880) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rgs7 (NM_011880) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rgs7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**Fully Sequenced ORF:** >MC216291 representing NM\_011880  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTCAGGAAATAATTATGGACAGACCAGCAACGGGGTGGCGGACGAATCACCCAACATGCTGGTGT  
 ACAGAAAGATGGAAGATGTCATAGCACGTATGCAAGACGAGAAAAACGGAATCCCATCCGTACCGTCAA  
 AAGCTTCCTTTCCAAGATCCCCAGTGTGTCTCCGGGTGACAGATTGTTCAATGGTTAATAAAGAACTTA  
 ACTATAGAAGATCCAGTGGAGGCTCTCCATTTGGGAACGCTAATGGCTGCCCATGGCTACTTCTTTCCCA  
 TCTCAGATCATGCTCACACTCAAGGATGACGGCACCTTCTACCGGTTTCAAACACCCTATTTTTGGCC  
 GTCAAATTGTTGGGAGCCAGAAAACACAGACTATGCTGTTTACCTCTGCAAGAGAACAATGCAAAAACAAG  
 GCAAGGCTAGAGTAGCAGATTATGAAGCCGAGAGCCTGGCCAGGCTGCAGAGAGCATTGGCCGGAAGT  
 GGGAGTTCATTTTATGCAAGCAGAAGCACAAGCTAAAGTGGACAAGAAGAGAGACAAAATTGAAAGGAA  
 GATCCTCGATAGTCAAGAGAGAGCATTCTGGGATGTCCACAGGCCTGTGCCTGGATGTGTAATACTACA  
 GAAGTGGACATTAAGAAGTCATCCCGGATGAGAAACCCACACAAAACACGAAAGTCTGTCTATGGTTTAC  
 AAAATGACATCCGAAGTCACAGTCCCACCCACACACCTACACCAGAAACCAAGCCTCTACAGAAGATGA  
 GCTGCACCAACAGATAAAATACTGGCAAATACAGTTAGATAGACATCGGTTAAAAATGTCAAAGTTGCT  
 GATAGTCTACTAAGCTATACGGAACAGTATGTAGAATATGACCCGTTTCTTGTGCCCGCTGACCCTTCCA  
 ATCCATGGCTCTCAGATGATACGACTTTCTGGGAACCTGAAGCAAGCAAGAACCAAGTCAACAGAGGGT  
 AAAACGATGGGGTTTTGGTATGGATGAGGCATTGAAAGACCCAGTTGGCGGAGAGCAGTTCCTTAAGTTT  
 CTAGAATCAGAATTCAGCTCAGAGAACTTAAGTTCCTGGTTGGCAGTGGAGGACCTGAAGAGAAGGCCTA  
 TCCGAGAGGTCCCCTCGAGAGTGCAGAAATATGGCAAGAATTTCTGGCTCCTGGGGCCCCAGTGCCAT  
 TAACTTGGATTCTAAGAGTTATGACAAGACCACACAGAATGTGAAGGAACCCAGGACGATACACATTTGAA  
 GATGCTCAGGAGCATATTTACAAGCTGATGAAGAGCGACTCATACCCCGCTTTATAAGATCTAGTGCCT  
 ACCAGGAACCTTCTACAGGCAAAGAGAAAGGGAAAACTCTCACATCCAAGAGGTTAAACAAGCCTGTTC  
 GTCTTAC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_011880
- Insert Size:** 1410 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\\_011880.3](#), [NP\\_036010.2](#)

RefSeq Size: 2424 bp

RefSeq ORF: 1410 bp

Locus ID: 24012

UniProt ID: [O54829](#)

Cytogenetics: 1 81.11 cM

**Gene Summary:** Regulates G protein-coupled receptor signaling cascades. Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits, thereby driving them into their inactive GDP-bound form. The RGS7/GNB5 dimer enhances GNAO1 GTPase activity. May play a role in synaptic vesicle exocytosis. Modulates the activity of potassium channels that are activated by GNAO1 in response to muscarinic acetylcholine receptor M2/CHRM2 signaling. [UniProtKB/Swiss-Prot Function]