

Product datasheet for **MC227861**

Rgs7 (NM_001199003) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rgs7 (NM_001199003) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rgs7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC227861 representing NM_001199003
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCTCAGGAAATAATTATGGACAGACCAGCAACGGGTGGCGGACGAATCACCAACATGCTGGTGT
 ACAGAAAGATGGAAGATGTCATAGCACGTATGCAAGACGAGAAAAACGGAATTCCTATCCGTACCGTCAA
 AAGCTTCCTTTCCAAGATCCCCAGTGTGTCTCCGGGTGACACATTGTTCAATGGTTAATAAAGAACTTA
 ACTATAGAAGATCCAGTGGAGGCTCTCCATTTGGGAACGCTAATGGCTGCCCATGGCTACTTCTTTCCCA
 TCTCAGATCATGTCTCACACTCAAGGATGACGGCACCTTCTACCGGTTTCAAACACCCTATTTTGGCC
 GTCAAATTGTTGGGAGCCAGAAAACACAGACTATGCTGTTTACCTCTGCAAGAGAACAATGCAAAACAAG
 GCAAGGCTAGAGTAGCAGATTATGAAGCCGAGAGCCTGGCCAGGCTGCAGAGAGCATTGCCCCGAAGT
 GGGAGTTCATTTTATGCAAGCAGAAGCACAAGCTAAAGTGGACAAGAAGAGAGACAAAATTGAAAGGAA
 GATCCTCGATAGTCAAGAGAGAGCATTCTGGGATGTCCACAGGCCTGTGCCTGGATGTGTAATACTACA
 GAAGTGGACATTAAGAAGTCATCCCGGATGAGAAACCCACACAAAACACGAAAGTCTGTCTATGGTTTAC
 AAAATGACATCCGAAGTCACAGTCCCACCCACACACCTACACCAGAAACCAAGCCTCTACAGAAGATGA
 GCTGCACCAACAGATAAAATACTGGCAAATACAGTTAGATAGACATCGGTTAAAAATGTCAAAGTTGCT
 GATAGTCTACTAAGCTATACGGAACAGTATGTAGAATATGACCCGTTTCTTGTGCCGCTGACCTTCCA
 ATCCATGGCTCTCAGATGATACGACTTTCTGGGAACCTGAAGCAAGCAAGAACCAAGTCAACAGAGGGT
 AAAACGATGGGTTTTGGTATGGATGAGGCATTGAAAGACCCAGTTGGCGGAGAGCAGTTCCTTAAGTTT
 CTAGAATCAGAATTCAGCTCAGAGAACTTAAGGTTCTGGTTGGCAGTGGAGGACCTGAAGAGAAGGCCTA
 TCCGAGAGGTCCCCTCGAGAGTGCAGGAAATATGGCAAGAATTTCTGGCTCCTGGGGCCCCAGTGCCAT
 TAACTTGGATTCTAAGAGTTATGACAAGACCACACAGAATGTGAAGGAACCAAGGACGATACACATTGAA
 GATGCTCAGGAGCATATTTACAAGCTGATGAAGAGCGACTCATACCCCGCTTTATAAGATCTAGTGCCT
 ACCAGGAACCTCTACAGGCAAAGAGAAAGAGATGCCATGAAAGGCTGCTCCACGCCGTACTTAGCCCAAG
 AGCCTTTGTT**AA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001199003

Insert Size: 1413 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001199003.1, NP_001185932.1</u>
RefSeq Size:	2502 bp
RefSeq ORF:	1413 bp
Locus ID:	24012
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]