

## Product datasheet for MC210158

### Rgs20 (NM\_021374) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rgs20 (NM_021374) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rgs20
Synonyms:	2900073E09Rik; Rgsz1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC210158 representing NM_021374 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCGCACGGCCAACGGAGGCCCGAGGGCCAGAGCTTCCCCTTCGGCTAGCCCAGCGGACCCTGGCCTGC  
CTGAGGGATCTGAGCGGACGAAATGCGGATGCGGCAGATGTGCGCGGAAGTGAGACCCAGGGCCCTGC  
CCCAAGCCAGCAGGGTGGCCGGGCTCCAACGCCTGCTGCTTCTGTTGGTGTCTGCTGCACCTGTTCT  
TGCTCACTGTCAGAAACCAAGAAGACCAGAGACCCAAAGAGCCTCCCATGAAATCAGAACAGACATTC  
CAGCATGTGAAGAAAGCCCCACGCCTACTCTGGAAGAAGTCTGTGCCTGGGCCAGTCTTTTGATAACCT  
GATGGTCACTCCAGCCGGAAGAAATGCATTCCGGGAATTTCTTGAACAGAATTCAGTGAAGAAAACATG  
CTCTTCTGGATGGCCTGTGAAGAACTGAAAAGGAAGCTAATAAAAGCACTATTGAGGAGAAAGCAAGGA  
TAATCTATGAGGACTATATTTCTATTCTCTCCTAAAGAGGTCAGCTTGGACTCCCGAGTACGAGAGGT  
TATCAACAGAAACATGGTGGATCCATCCCAGCACATATTCGATGACGCTCAACTGCAGATCTACACTCTA  
ATGCACAGAGACTCCTATCCCCGCTTCATGAACTCCACAGTCTATAAGGATTTGCTTACGTCCTTAGCTG  
AGAAAACAGTTGAAGCA**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_021374
Insert Size:	720 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_021374.5</a> , <a href="#">NP_067349.2</a>
<b>RefSeq Size:</b>	1778 bp
<b>RefSeq ORF:</b>	720 bp
<b>Locus ID:</b>	58175
<b>UniProt ID:</b>	<a href="#">Q9QZB1</a>
<b>Cytogenetics:</b>	1 A1
<b>Gene Summary:</b>	<p>Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form. Binds selectively to G(z)-alpha and G(alpha)-i2 subunits, accelerates their GTPase activity and regulates their signaling activities. The G(z)-alpha activity is inhibited by the phosphorylation and palmitoylation of the G-protein. Negatively regulates mu-opioid receptor-mediated activation of the G-proteins. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The resulting isoform (2) is shorter and distinct N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>