

## Product datasheet for **MC226020**

### Rgs19 (NM\_001291209) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rgs19 (NM\_001291209) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Rgs19  
**Synonyms:** 2610042F04Rik; AI324841; AW547781; GAIP  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC226020 representing NM\_001291209  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCACCCACATGAGGCTGAGAAACAGCACACAGGGCCAGAGGAGGCAGACAGGCCTCCCTCGATGT  
CCAGCCATGACGCAGCCCCCTCAGGACCTCCAGTCGCAATCCCTGCTTATGCTGGTCTGCTGCTG  
TAGCTGCTCCTGGAACCAAGAACGGCAACGAGCTTGGCAGTTTCTCGGAAAGCAAGCTGCAACCCCTC  
CCCAGCTGTGAAGTCTGCACTCCACCAAGCCCTAAGGAAGTACAGAGCTGGGCACAGTCTTTGACAAGT  
TGATGCATAGCCCCACGGCCCGAGTGTATTCCGGGCATTCTGCGCACAGAATACAGCGAAGAGAACAT  
GCTCTTCTGGCTGGCTTGTGAGGAGTTGAAAGCAGAGGCCAACCAACATGTGGTGGACGAGAAGGCGCGA  
CTTATCTATGAGGACTACGTGTCCATCCTGTCCCCAAGGAGAAGCCTCTGTTTATCCCACAACCTGGGGT  
AG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001291209  
**Insert Size:** 492 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).



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<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u><a href="#">NM_001291209.1</a></u> , <u><a href="#">NP_001278138.1</a></u>
<b>RefSeq Size:</b>	937 bp
<b>RefSeq ORF:</b>	492 bp
<b>Locus ID:</b>	56470
<b>UniProt ID:</b>	<u><a href="#">Q9CX84</a></u>
<b>Cytogenetics:</b>	2 103.72 cM
<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 to G-alpha subfamily 1 members, with the order G(i)a3 &gt; G(i)a1 &gt; G(o)a &gt;&gt; G(z)a/G(i)a2. Activity on G(z)-alpha is inhibited by phosphorylation and palmitoylation of the G-protein (By similarity). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (6) contains alternate 5' and 3' terminal exons, and it thus differs in both UTRs, initiates translation at a downstream in-frame start codon and contains an alternate 3' coding region, compared to variant 1. The encoded isoform (d) is shorter at the N-terminus and has a distinct C-terminus, compared to isoform a.</p>