

Product datasheet for **MC226211**

Rgs19 (NM_001291208) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rgs19 (NM_001291208) 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: >MC226211 representing NM_001291208
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCCAGCCATGACGCAGCCCCCTCAGGACCTCCAGTCGCAATCCCTGCTGCTTATGCTGGTCTGCT
GCTGTAGCTGCTCCTGGAACCAAGAACGGCAACGAGCTTGGCAGGTTTCTCGGAAAGCAAGCTGCAACC
CCTCCCCAGCTGTGAAGTCTGCACTCCACCAAGCCCTAAGGAAGTACAGAGCTGGGCACAGTCTTTGAC
AAGTTGATGCATAGCCCCACGGCCGCGAGTGATTCCGGGCATTCTGCGCACAGAATACAGCGAAGAGA
ACATGCTCTTCTGGCTGGCTTGTGAGGAGTTGAAAGCAGAGGCCAACCAACATGTGGTGGACGAGAAGGC
GCGACTTATCTATGAGGACTACGTGTCCATCCTGTCCCCAAGGAGGTAAGCCTGGACTCCCGTGTGCGA
GAAGGCATCAATAGGAAGATGCAAGAGCCATCGCCACACACATTTGATGATGCACAGCTGCAGATCTACA
CCCTCATGCACCGGGACTCGTACCCTCGATTCTTACCTCCCCACCTACCGCTCTTACTCCAGGG
GGCCCCACAGTCTCTGAGGCC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001291208
Insert Size: 585 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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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:	<ol style="list-style-type: none">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:	<u>NM_001291208.1</u> , <u>NP_001278137.1</u>
RefSeq Size:	1757 bp
RefSeq ORF:	585 bp
Locus ID:	56470
Cytogenetics:	2 103.72 cM
Gene Summary:	<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 > G(i)a1 > G(o)a >> 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 (5) contains an alternate 5' terminal exon and lacks an internal exon, and it thus differs in the 5' UTR and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (c) is shorter at the N-terminus, compared to isoform a. Both variants 4 and 5 encode isoform c. 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>