

## Product datasheet for MR228422

### Rgs19 (NM\_001291208) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rgs19 (NM\_001291208) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Rgs19  
**Synonyms:** 2610042F04Rik; AI324841; AW547781; GAIP  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR228422 representing NM\_001291208  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCCAGCCATGACGCAGCCCCCTCAGGACCTCCAGTCGCAATCCCTGCTGCTTATGCTGGTCTGCT  
 GCTGTAGTCTCTGGAACCAAGAACGGCAACGAGCTTGGCAGGTTTCTCGGAAAGCAAGCTGCAACC  
 CCTCCCCAGCTGTGAAGTCTGCACTCCACCAAGCCCTAAGGAAGTACAGAGCTGGGCACAGTCTTTGAC  
 AAGTTGATGCATAGCCCCACGGCCGAGTGATTCCGGGCAATCCTGCGCACAGAATACAGCGAAGAGA  
 ACATGCTCTTCTGGCTGGCTTGTGAGGAGTTGAAAGCAGAGGCCAACCAACATGTGGTGGACGAGAAGGC  
 GCGACTTATCTATGAGGACTACGTGTCCATCCTGTCCCCAAGGAGGTAAGCCTGGACTCCCGTGTGCGA  
 GAAGGCATCAATAGGAAGATGCAAGAGCCATCGCCACACACATTTGATGATGCACAGCTGCAGATCTACA  
 CCCTCATGCACCGGGACTCGTACCCTCGATTCTTACCTCCCCACCTACCGCTCTCTATTACTCCAGGG  
 GGCCCCACAGTCTCTGAGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR228422 representing NM\_001291208  
 Red=Cloning site Green=Tags(s)

MSSHDAAPSGPPSRNPCCLCWCCCSWSNQERQRAWQVSRESKQLPLPSCVCTPPSPKEVQSWAQSF  
 KLMHSPTGRSVFRAFLRTEYSEENMLFWLACEELKAEANQHVVDEKARLIYEDYVSILSPKEVSLDSRVR  
 EGINRKMQEPSPHTFDDAQLQIYTLMHRDSYPRFLTSPYRSLLLQGAPQSSEA

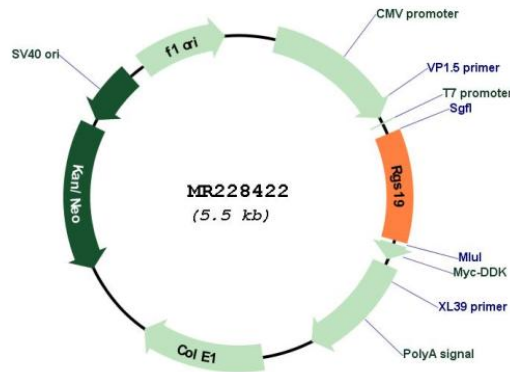
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001291208

**ORF Size:** 582 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001291208.1](#), [NP\\_001278137.1](#)

**RefSeq Size:** 1757 bp

**RefSeq ORF:** 585 bp

**Locus ID:** 56470

**Cytogenetics:** 2 103.72 cM

**MW:** 22.7 kDa

**Gene Summary:** 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]