

Product datasheet for **MR228421**

Rgs19 (NM_001291207) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rgs19 (NM_001291207) 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: >MR228421 representing NM_001291207
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCCAGCCATGACGCAGCCCCCTCAGGACCTCCAGTCGCAATCCCTGCTGCTTATGCTGGTCTGCT
 GCTGTAGTCTCTGGAACCAAGAACGGCAACGAGCTTGGCAGGTTTCTCGGAAAGCAAGCTGCAACC
 CCTCCCCAGCTGTGAAGTCTGCACTCCACCAAGCCCTAAGGAAGTACAGAGCTGGGCACAGTCTTTGAC
 AAGTTGATGCATAGCCCCACGGCCGAGTGATTCCGGGCAATCCTGCGCACAGAATACAGCGAAGAGA
 ACATGCTCTTCTGGCTGGCTTGTGAGGAGTTGAAAGCAGAGGCCAACCAACATGTGGTGGACGAGAAGGC
 GCGACTTATCTATGAGGACTACGTGTCCATCCTGTCCCCAAGGAGGTAAGCCTGGACTCCCGTGTGCGA
 GAAGGCATCAATAGGAAGATGCAAGAGCCATCGCCACACACATTTGATGATGCACAGCTGCAGATCTACA
 CCCTCATGCACCGGGACTCGTACCCTCGATTCTTACCTCCCCACCTACCGCTCTCTATTACTCCAGGG
 GGCCCCACAGTCTCTGAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228421 representing NM_001291207
 Red=Cloning site Green=Tags(s)

MSSHDAAPSGPPSRNPCCLCWCCCSWSNQERQRAWQVSRESKQLPLPSCVCTPPSPKEVQSWAQSF
 KLMHSPTGRSVFRAFLRTEYSEENMLFWLACEELKAEANQHVVDEKARLIYEDYVSILSPKEVSLDSRVR
 EGINRKMQEPSPHTFDDAQLQIYTLMHRDSYPRFLTSPYRSLLLQGAPQSSEA

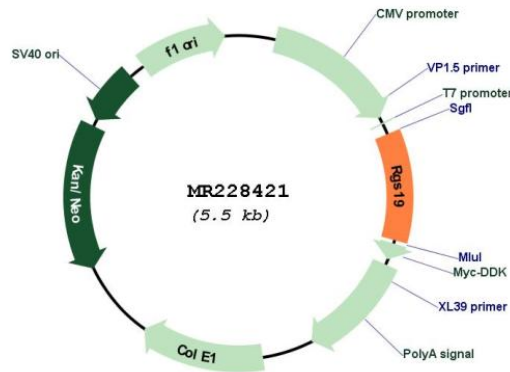
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001291207

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_001291207.1](#), [NP_001278136.1](#)

RefSeq Size: 1408 bp

RefSeq ORF: 585 bp

Locus ID: 56470

UniProt ID: [Q9CX84](#)

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]