

Product datasheet for MR228565

Rgs19 (NM_001291206) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Rgs19 (NM_001291206) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Rgs19
 Synonyms: 2610042F04Rik; AI324841; AW547781; GAIP
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR228565 representing NM_001291206
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGCCACCCACATGAGGCTGAGAAACAGCACACAGGGCCAGAGGAGGCAGACAGGCCTCCCTCGATGT
 CCAGCCATGACGCAGCCCCCTCAGGACCTCCAGTCGCAATCCCTGCTGCTTATGCTGGTGTCTGCTGCTG
 TAGCTGCTCCTGGAACCAAGAACGGCAACGAGCTTGGCAGTTTCTCGGAAAGCAAGCTGCAACCCCTC
 CCCAGCTGTGAAGTCTGCACTCCACCAAGCCCTGAGGAAGTACAGAGCTGGGCACAGTCTTTGACAAGT
 TGATGCATAGCCCCACGGCCGAGTGTATTCCGGGCATTCTGCGCACAGAATACAGCGAAGAGAACAT
 GCTCTTCTGGCTGGCTTGTGAGGAGTTGAAAGCAGAGGCCAACCAACATGTGGTGGACGAGAAGGCGCA
 CTTATCTATGAGGACTACGTGTCCATCCTGTCCCCAAGGAGGTAAGCCTGGACTCCCGTGTGCGAGAAG
 GCATCAATAGGAAGATGCAAGAGCCATCGCCACACACATTTGATGATGCACAGCTGCAGATCTACACCT
 CATGCACCGGACTCGTACCCTCGATTCTTACCTCCCCACCTACCGCTCTCTATTACTCCAGGGGGCC
 CCACAGTCTCTGAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR228565 representing NM_001291206
 Red=Cloning site Green=Tags(s)

MPTPHEAEKQHTGPEEADRPPSSSHDAAPSGPPSRNPCCLCWCCCCSCSWNQERQRAWQVSRESKLQPL
 PSCEVCTPPSPPEEVQSWAQSFDKLMHSPTGRSVFRAFLRTEYSEENMLFWLACEELKAEANQHVVDEKAR
 LIYEDYVSILSPKEVSLDSRVREGINRKMQEPSPHTFDDAQLQIYTLMHRDSYPRFLTSPTYRSLLLQGA
 PQSSEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001291206

ORF Size: 648 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_001291206.1](#), [NP_001278135.1](#)

RefSeq Size: 1863 bp

RefSeq ORF: 651 bp

Locus ID: 56470

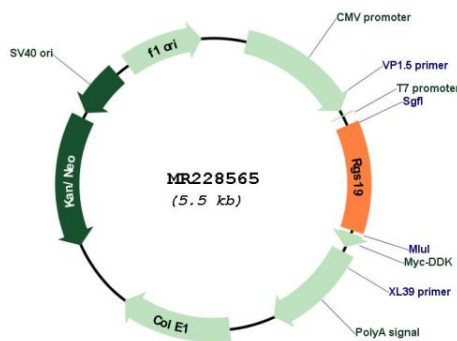
UniProt ID: [Q9CX84](#)

Cytogenetics: 2 103.72 cM

MW: 24.7 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]

Product images:



Circular map for MR228565