

Product datasheet for MR228231

Rgs19 (NM_001291209) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rgs19 (NM_001291209) 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: >MR228231 representing NM_001291209
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCACCCACATGAGGCTGAGAAACAGCACACAGGGCCAGAGGAGGCAGACAGGCCTCCCTCGATG
 CCAGCCATGACGCAGCCCCCTCAGGACCTCCAGTCGCAATCCCTGCTTATGCTGGTCTGCTGCTG
 TAGCTGCTCCTGGAACCAAGAACGGCAACGAGCTTGGCAGTTTCTCGGAAAGCAAGCTGCAACCCCTC
 CCCAGCTGTGAAGTCTGCACTCCACCAAGCCCTAAGGAAGTACAGAGCTGGGCACAGTCTTTGACAAGT
 TGATGCATAGCCCCACGGGCCGAGTGTATTCCGGGCATTCTGCGCACAGAATACAGCGAAGAGAACAT
 GCTCTTCTGGCTGGCTTGTGAGGAGTTGAAAGCAGAGGCCAACCAACATGTGGTGGACGAGAAGGCGCGA
 CTTATCTATGAGGACTACGTGTCCATCCTGTCCCCAAGGAGAAGCCTCTGTTTATCCCACAACCTGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228231 representing NM_001291209
 Red=Cloning site Green=Tags(s)

MPTPHEAEKQHTGPEEADRPPSMSSHDAAPSGPPSRNPCCLCWCCCCSCSWNQERQRAWQVSRESKLQPL
 PSEVCTPPSPKEVQSWAQSFDKLMHSPTGRSVFRAFLRTEYSEENMLFWLACEELKAEANQHVVDEKAR
 LIYEDYVSILSPKEKPLFIPQLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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| 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_001291209.1, NP_001278138.1</u> |
| RefSeq Size: | 937 bp |
| RefSeq ORF: | 492 bp |
| Locus ID: | 56470 |
| UniProt ID: | <u>Q9CX84</u> |
| Cytogenetics: | 2 103.72 cM |
| MW: | 19 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] |