

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; Al324841; AW547781; GAIP

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide >MR228231 representing NM_001291209
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228231 representing NM_001291209

Red=Cloning site Green=Tags(s)

MPTPHEAEKQHTGPEEADRPPSMSSHDAAPSGPPSRNPCCLCWCCCCSCSWNQERQRAWQVSRESKLQPL PSCEVCTPPSPKEVQSWAQSFDKLMHSPTGRSVFRAFLRTEYSEENMLFWLACEELKAEANQHVVDEKAR

LIYEDYVSILSPKEKPLFIPQLG

TRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

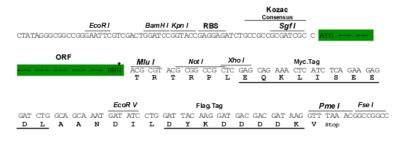
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



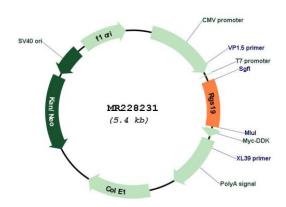
Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001291209

ORF Size: 489 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: <u>NM 001291209.1</u>, <u>NP 001278138.1</u>

 RefSeq Size:
 937 bp

 RefSeq ORF:
 492 bp

 Locus ID:
 56470

 UniProt ID:
 Q9CX84

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]