

Product datasheet for MR201631

Rgs5 (NM_009063) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rgs5 (NM_009063) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rgs5
Synonyms: 1110070A02Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201631 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTGTAAGGGACTGGCAGCTCTGCCGACTCATGCCTGGAAAGGGCCAAGGAGATCAAGATCAAGTTGG
 GAATTCTCCTCCAGAAGCCAGACTCTGTGTTGACCTTGTCAATCCATACAATGAGAAGCCAGAGAAGCC
 TGCCAAGGCACACAAGCCCTCACTGGAGGAGTCTGCAGTGGCGCCAGTCCCTGGACAAGCTTCTCCAG
 AACAGCTATGGATTTGCCAGCTTCAAAGTTTCTGAAGTCTGAATTCAGTGAGGAAAACCTTGAGTTCT
 GGGTTGCCTGTGAGAATTACAAGAAGATCAAGTCCCCATCAAAATGGCGGAGAAGGCAAAGCAAATTTA
 TGAAGAATTCATCCAGACAGAGGCCCTAAAGAGGTGAACATTGACCACTTCACTAAAGACATCACCATG
 AAGAACCTGGTGAACCGTCTCCTCGCAGCTTTGACTTGGCCAGAAAAGGATCTATGCCCTGATGGAGA
 AGGATTCTCGCCCGCTTTGTGCGCTCTGAATTTATAAGGAGCTAATCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201631 protein sequence
 Red=Cloning site Green=Tags(s)

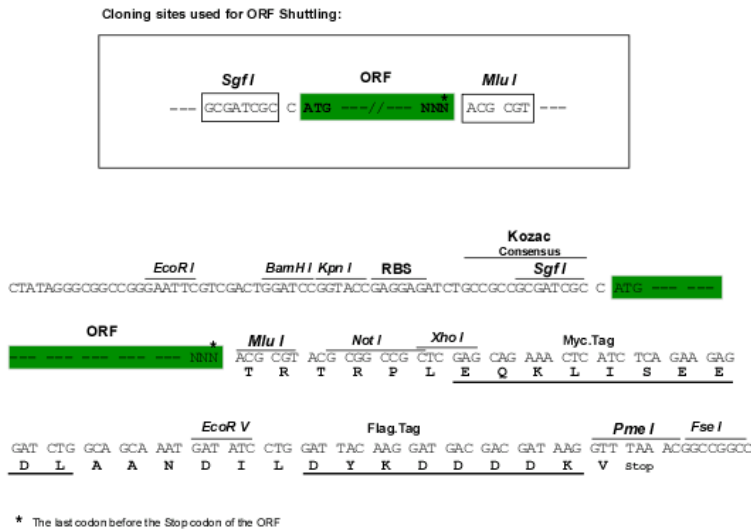
MCKGLAALPHSCLERAKEIKIKLGILLQKPDSAVDLVIPYNEKPEKPAKAHKPSLEEVLQWRQSLDKLLQ
 NSYGFASFKSFLKSEFSEENLEFWACENYKIKSPIKMAEKAKQIYEEFIQTEAPKEVNIDHFTKIDITM
 KNLVEPSRFDLAQKRIYALMEKDSLPRFVRFSEFYKELIK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_009063

ORF Size: 546 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_009063.4](#)

RefSeq Size: 1809 bp

RefSeq ORF: 546 bp

Locus ID: 19737

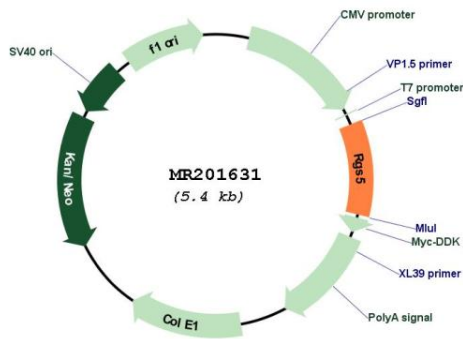
UniProt ID: [O08850](#)

Cytogenetics: 1 76.84 cM

MW: 21.1 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(i)-alpha and G(o)-alpha, but not to G(s)-alpha.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR201631