

Product datasheet for MR202050

Rgs16 (NM_011267) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rgs16 (NM_011267) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rgs16
Synonyms: Rgs14; Rgsr
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR202050 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTGCCGCACCCTAGCCACCTTCCCAACACCTGCCTGGAGAGAGCCAAAGAGTTCAAGACGGGCTGG
 GAATCTTTCTTCATAAATCAGAGCTGAGCTCCGATACTGGGGTATTAGCAAATTCGAGTGGCCAGTAA
 GCATAACAAAGAGAGAAGCTTCTCAGAAGATGTACTGGGATGGAGAGAGTCTTTCGATTTGCTGCTGAAT
 AGTAAAAATGGGGTGGCTGCCTCCATGCCTTCTAAAGACGGAATTCAGTGAGGAGAACCTGGAGTTCT
 GGTGGCCTGCGAGGAGTTCAAGAAGATCCGATCAGCCACCAAATGGCGTCCAGGGCTCACCACATCTT
 TGACGAGTACATCCGCAGCGAAGCCCTAAAGAGGTGAACATAGATCACGAGACCCGAGAACTGACCAAG
 ACAAACCTACAAGCTGCCACTACCAATTGCTTCGATGTGGCTCAGGGGAAGACCCGCACATTGATGGAGA
 AGGACTCTATCCGCGCTTCTCAAGTACCAGCTTATCGCGACCTGGCTGCCAAGCCTCGGCCACCTC
 CACCTCTGCACCCAGCAGCAGCCAGCTGAGCCTTACACACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR202050 protein sequence
 Red=Cloning site Green=Tags(s)

MCRTLATFPNTCLERAKEFKTRLGIFLHKSELSSDTGGISKFEWASKHNKERSFSEDVLGWRESFDLLL
 SKNGVAAFHAFKTEFSEENLEFWLACEEFKKIRSATKLASRAHHIFDEYIRSEAPKEVNIHETRELTK
 TNLQAATTSCFDVAQGKTRTLMEKDSYPRFLKSPAYRDLAAQASATSTSPSSSPAEPSHT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_011267

ORF Size: 606 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_011267.2](#)

RefSeq Size: 2351 bp

RefSeq ORF: 606 bp

Locus ID: 19734

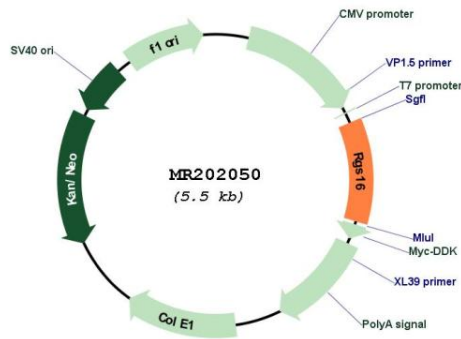
UniProt ID: [P97428](#)

Cytogenetics: 1 65.43 cM

MW: 22.7 kDa

Gene Summary: Regulates G protein-coupled receptor signaling cascades (PubMed:9079700). Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits, thereby driving them into their inactive GDP-bound form (PubMed:10373502). Plays an important role in the phototransduction cascade by regulating the lifetime and effective concentration of activated transducin alpha (PubMed:8917514). May regulate extra and intracellular mitogenic signals. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202050