

Product datasheet for MR202147

Rgs4 (NM_009062) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rgs4 (NM_009062) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rgs4
Synonyms: AA004315; AA597169; ESTM48; ESTM50
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR202147 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTGCAAAGGACTTGCAGGTCTGCCGGCTTCTGCCTGAGGAGTGCAAAGGACATGAAACATCGGCTGG
 GGTTCTCTGCTGCAGAAGTCAGATTCTGCGAACACAGTTCTTACACAGCAAGAAGGACAAAGTAGTAAC
 TTGCCAGAGGGTAAGCCAAGAAGAAGTCAAGAAATGGGCTGAATCGTTGGAAAACCTGATCACCATGAA
 TGTGGACTGGCAGCTTCAAAGCTTCTGAAGTCGGAATACAGCGAGGAGAACATTGACTTCTGGATCA
 GCTGTGAGGAGTACAAGAAGATCAAGTCACCTTCTAACTAAGTCCCAAAGCCAAGAAGATCTACAACGA
 GTTCATCTCAGTCAAGCAACAAAAGAGGTGAACCTGGACTCTTGACACCAGAGAGGAGACAAGCCGGAAC
 ATGTTACAGCCCAATAACCTGTTTTGATGAAGCCAGAGAAGATTTCAACCTGATGAAAAGGATT
 CCTACCGCCGCTTCTCAAGTCTCGATTCTATCTTGACCTGACCAATCCTTCCAGCTGCGGGGAGAGAA
 GCAGAAAGGAGCCAAGAGTTCTGCAGACTGCACCTCCCTGGTCTCCCAAGTGTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR202147 protein sequence
 Red=Cloning site Green=Tags(s)

MCKGLAGLPASCLRSKMDMKHRLGFLQKSDSCEHSSSHSKDKVVTQQRVSQEEVKKWAESLENLIHHE
 CGLAAFKAFKSEYSEENIDFWISCEEYKIKSPSKLSPKAKKIYNEFISVQATKEVNLDSCTREETSRN
 MLQPTITCFDEAQKKIFNLMEKDSYRRFLKSRFYLDL TNPSSCGAEKQKGAKSSADCTSLVSQCA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009062

ORF Size: 618 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_009062.3](#)

RefSeq Size: 2952 bp

RefSeq ORF: 618 bp

Locus ID: 19736

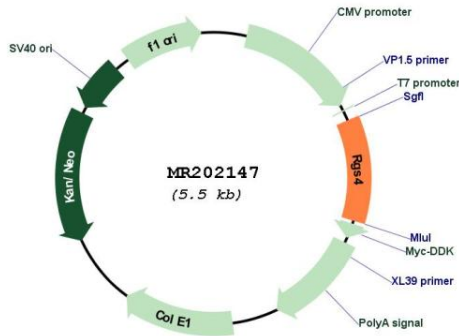
UniProt ID: [O08899](#)

Cytogenetics: 1 76.84 cM

MW: 23.3 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. Activity on G(z)-alpha is inhibited by phosphorylation of the G-protein. Activity on G(z)-alpha and G(i)-alpha-1 is inhibited by palmitoylation of the G-protein (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202147