

Product datasheet for **MG202147**

Rgs4 (NM_009062) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rgs4 (NM_009062) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rgs4
Synonyms: AA004315; AA597169; ESTM48; ESTM50
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202147 representing NM_009062
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTGCAAAGGACTTGCAGGTCTGCCGGCTTCCTGCCTGAGGAGTGCAAAGGACATGAAACATCGGCTGG
 GGTTCTCTGCTGCAGAAGTCAGATTCCTGCGAACACAGTCTTTCACACAGCAAGAAGGACAAAGTAGTAAC
 TTGCCAGAGGGTAAGCCAAGAAGAAGTCAAGAAATGGGCTGAATCGTTGGAAAACCTGATTCACCATGAA
 TGTGGACTGGCAGCTTTCAAAGCTTTCCTGAAGTCGGAATACAGCGAGGAGAACATTGACTTCTGGATCA
 GCTGTGAGGAGTACAAGAAGATCAAGTCACCTTCTAAACTAAGTCCCAAAGCCAAGAAGATCTACAACGA
 GTTCATCTCAGTCAAGCAACAAAAGAGGTGAACCTGGACTCTTGACACCAGAGAGGAGACAAGCCGGAAC
 ATGTTACAGCCCAATAACCTGTTTTGATGAAGCCAGAGAAGATTTTCAACCTGATGGAAAAGGATT
 CCTACCGCCGCTTCTCAAGTCTCGATTCTATCTTGACCTGACCAATCCTTCCAGCTGCGGGGCAGAGAA
 GCAGAAAGGAGCCAAGAGTTCTGCAGACTGCACCTCCCTGGTCTCCCAGTGTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG202147 representing NM_009062
 Red=Cloning site Green=Tags(s)

MCKGLAGLPASCLRSKDKMHRLLGFLQKSDSCEHSSSHSKDKVVTQQRVSVQEEVKKWAESLENLIHHE
 CGLAAFKAFKSEYSEENIDFWISCEEYKIKSPSKLSPKAKKIYNEFISVQATKEVNLDSCTREETSRN
 MLQPTITCFDEAQKIFNLMEKDSYRRFLKSRFYLDLTPSSCGAEKQKGAQSSADCTSLVSQCA

TRTRPLE - GFP Tag - V

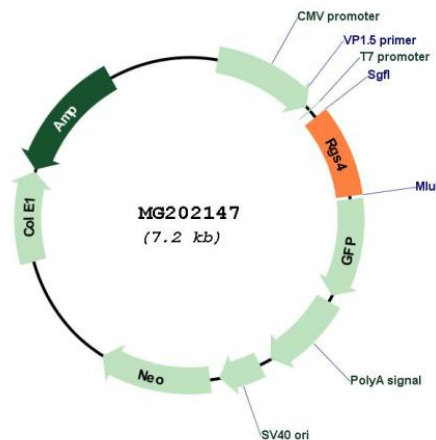
Restriction Sites: Sgfl-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_009062

ORF Size: 615 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: 2781 bp

RefSeq ORF: 618 bp

Locus ID: 19736

UniProt ID: [O08899](#)

Cytogenetics: 1 76.84 cM

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]