

Product datasheet for **MG201631**

Rgs5 (NM_009063) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rgs5 (NM_009063) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rgs5
Synonyms: 1110070A02Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201631 representing NM_009063
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTGTAAGGGACTGGCAGCTCTGCCGACTCATGCCTGGAAAGGGCCAAGGAGATCAAGATCAAGTTGG
 GAATTCTCTCCAGAAGCCAGACTCTGCTGTTGACCTTGTCATTCCATACAATGAGAAGCCAGAGAAGCC
 TGCCAAGGCACACAAGCCCTCACTGGAGGAGTCTGCAGTGGCGCCAGTCCCTGGACAAGCTTCTCCAG
 AACAGCTATGGATTTGCCAGCTTCAAAAGTTTCTGAAGTCTGAATTCAGTGAGGAAAACCTTGAGTTCT
 GGGTTGCCTGTGAGAATTACAAGAAGATCAAGTCCCCATCAAAATGGCGGAGAAGGCAAAGCAAATTTA
 TGAAGAATTCATCCAGACAGAGGCCCTAAAGAGGTGAACATTGACCACTTCACTAAAGACATCACCATG
 AAGAACCTGGTGAACCGTCTCCTCGCAGCTTTGACTTGGCCAGAAAAGGATCTATGCCCTGATGGAGA
 AGGATTCTCGCCCGCTTTGTGCGCTCTGAATTTATAAGGAGCTAATCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201631 representing NM_009063
 Red=Cloning site Green=Tags(s)

MCKGLAALPHSCLERAKEIKIKLGILLQKPDSAVDLVIPYNEKPEKPAKAHKPSLEEVLQWRQSLDKLLQ
 NSYGFASFSLKSEFSEENLEFWACENYKKIKSPIKMAEKAKQIYEFEIQTEAPKEVNIHFTKIDITM
 KNLVEPSRFDLAQKRIYALMEKDSLPRFVRFSEFYKELIK

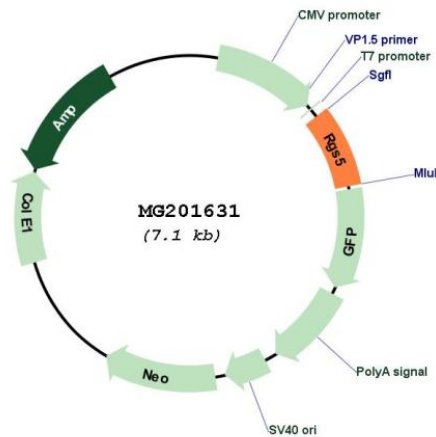
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_009063

ORF Size: 543 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:	<ol style="list-style-type: none">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_009063.4</u>
RefSeq Size:	1810 bp
RefSeq ORF:	546 bp
Locus ID:	19737
UniProt ID:	<u>O08850</u>
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. Binds to G(i)-alpha and G(o)-alpha, but not to G(s)-alpha.[UniProtKB/Swiss-Prot Function]