

Product datasheet for **MG202389**

Rgs19 (NM_026446) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rgs19 (NM_026446) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rgs19
Synonyms: 2610042F04Rik; AI324841; AW547781; GAIP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202389 representing NM_026446
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCACCCACATGAGGCTGAGAAACAGCACACAGGGCCAGAGGAGGCAGACAGGCCTCCCTCGATGT
 CCAGCCATGACGCAGCCCCCTCAGGACCTCCAGTCGCAATCCCTGCTGCTTATGCTGGTGTCTGCTGCTG
 TAGCTGCTCCTGGAACCAAGAACGGCAACGAGCTTGGCAGTTTCTCGGGAAAGCAAGCTGCAACCCCTC
 CCCAGCTGTGAAGTCTGCACTCCACCAAGCCCTGAGGAAGTACAGAGCTGGGCACAGTCTTTGACAAGT
 TGATGCATAGCCACGGGCCGAGTGTATTCCGGGCATTCTGCGCACAGAATACAGCGAAGAGAACAT
 GCTCTTCTGGCTGGCTTGTGAGGAGTTGAAAGCAGAGGCCAACCAACATGTGGTGGACGAGAAGGCGCA
 CTTATCTATGAGGACTACGTGTCCATCCTGTCCCCAAGGAGGTAAGCCTGGACTCCCGTGTGCGAGAAG
 GCATCAATAGGAAGATGCAAGAGCCATCGCCACACACATTTGATGATGCACAGCTGCAGATCTACCCCT
 CATGCACCGGACTCGTACCCTCGATTCTTACCTCCCCACCTACCGCTCTCTATTACTCCAGGGGGCC
 CCACAGTCCTCTGAGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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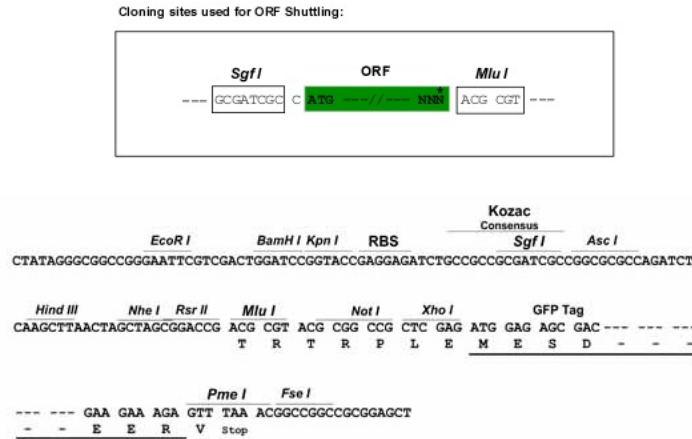
Protein Sequence: >MG202389 representing NM_026446
Red=Cloning site Green=Tags(s)

MPTPHEAEKQHTGPPEADRPPSSSHDAAPSGPPSRNPCCLCWCCCCSCSWNQERQRAWQVSRESKQLPL
 PSCVCTPPSPPEEVQSWAQSFDKLMHSPTGRSVFRAFLRTEYSEENMLFWLACEELKAEANQHVVDEKAR
 LIYEDYVSILSPKEVSLDSRVREGINRKMQEPSPHTFDDAQLQIYTLMHRDSYPRFLTSPTYRSLLLQGA
 PQSSEA

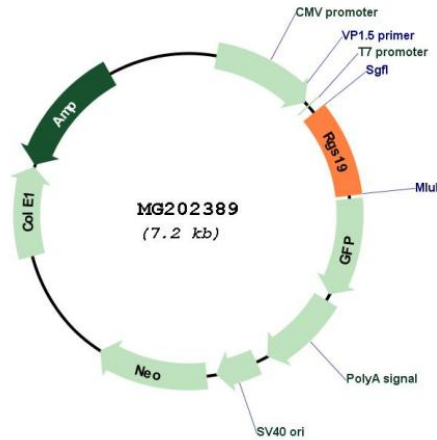
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_026446

ORF Size: 648 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:	NM_026446.2 , NP_080722.1
RefSeq Size:	1459 bp
RefSeq ORF:	651 bp
Locus ID:	56470
UniProt ID:	Q9CX84
Cytogenetics:	2 103.72 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-alpha subfamily 1 members, with the order G(i)a3 > G(i)a1 > G(o)a >> G(z)a/G(i)a2. Activity on G(z)-alpha is inhibited by phosphorylation and palmitoylation of the G-protein (By similarity). [UniProtKB/Swiss-Prot Function]