

Product datasheet for MG202294

Rgs2 (NM_009061) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Rgs2 (NM_009061) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Rgs2

Synonyms: GOS8

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG202294 representing NM_009061

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGCAAAGTGCCATGTTCCTGGCTGTCCAGCACGACTGCGTACCCATGGACAAGAGTGCAGGCAACGGCC CCAAGGTCGAGGAAAGCGGAAAAATGAAGCGGACACTCTTAAAGGATTGGAAGACCCGTTTGAGCTA CTTCTTGCAGAATTCCTCTGGCTCCTGGGAAGCCCAAAACTGGCAAGAAAACGCAAACAGCAAACTTTTATC AAGCCTTCTCCTGAGGAAGCCGCAGCTCTGGGCAGAAGCATTGATGAACTGCTGGCCAGTAAATATGGGC TGGCTGCATTCAGGGCGTTTTTAAAGTCCGAGTTCTGTGAAGAAAACATTGAATTCTGGTTGGCTTGTGA AGACTTCAAAAAAAACCAAATCACCCCCAAAAACTGTCCTCAAAAGCAAGGAAAATCTATACCGACTTCATA GAGAAGGAAGCTCCCAAAAGAGATAAACATGAGCTTCCAAACGAAATCTCTGATTGCCCAAAAATTCCAAG AGGCTACAAGTGGCTGCTTCACCACAGCTCAGAAGAGGGTGTACAGTTTGATGGAGAACAATTCTTATCC TCGGTTCTTGGAGTCCGAATTCTACCAGGACCTTATGTAAAAAAGCCACAGGATCACCACGGAGCCCCATGCT

ACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Protein Sequence: >MG202294 representing NM_009061

Red=Cloning site Green=Tags(s)

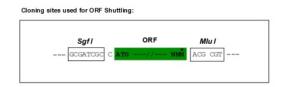
MQSAMFLAVQHDCVPMDKSAGNGPKVEEKREKMKRTLLKDWKTRLSYFLQNSSAPGKPKTGKKSKQQTFI KPSPEEAQLWAEAFDELLASKYGLAAFRAFLKSEFCEENIEFWLACEDFKKTKSPQKLSSKARKIYTDFI EKEAPKEINIDFQTKSLIAQNIQEATSGCFTTAQKRVYSLMENNSYPRFLESEFYQDLCKKPQITTEPHA T

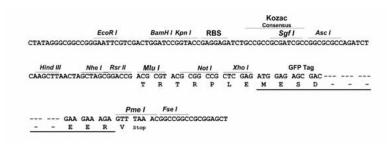
TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2017 e08.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





ACCN: NM_009061

ORF Size: 633 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts

of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at customercom or by

calling 301.340.3188 option 3 for pricing and delivery.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 009061.4</u>

 RefSeq Size:
 2353 bp

 RefSeq ORF:
 636 bp

 Locus ID:
 19735

 UniProt ID:
 008849

 Cytogenetics:
 1 62.56 cM

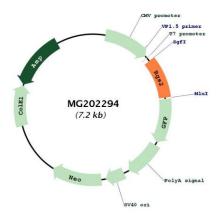
Gene Summary: Regulates G protein-coupled receptor signaling cascades. Inhibits signal transduction by

increasing the GTPase activity of G protein alpha subunits, thereby driving them into their inactive GDP-bound form (By similarity). It is involved in the negative regulation of the angiotensin-activated signaling pathway (By similarity). Plays a role in the regulation of blood pressure in response to signaling via G protein-coupled receptors and GNAQ. Plays a role in regulating the constriction and relaxation of vascular smooth muscle (PubMed:14608379). Binds EIF2B5 and blocks its activity, thereby inhibiting the translation of mRNA into protein

(By similarity).[UniProtKB/Swiss-Prot Function]



Product images:



Circular map for MG202294