

## 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 Selection: Neomycin  
Vector: pCMV6-AC-GFP (PS100010)  
E. coli Selection: Ampicillin (100 ug/mL)  
ORF Nucleotide Sequence: >MG202294 representing NM\_009061  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAAAGTGCCATGTTCTGGCTGTCCAGCAGACTGCGTACCCATGGACAAGAGTGCAGGCAACGGCC  
CCAAGGTCGAGGAGAAGCGGGAGAAAAATGAAGCGGACACTCTAAAGGATTGGAAGACCCGTTTGAGCTA  
CTTCTTGAGAATTCTCTGCTCCTGGGAAGCCAAAACCTGGCAAGAAAAGCAAACAGCAAACCTTTATC  
AAGCCTTCTCCTGAGGAAGCGCAGCTCTGGCAGAAAGCATTGATGAACTGCTGGCCAGTAAATATGGGC  
TGGCTGCATTAGGGCGTTTTTAAAGTCCGAGTCTGTGAAGAAAACATTGAATTCTGGTTGGCTTGTGA  
AGACTTCAAAAAACCAATCACCCAAAAACTGTCTCAAAGCAAGGAAAATCTATACCGACTTCATA  
GAGAAGGAAGCTCCCAAAGAGATAAACATAGACTTCAAACGAAATCTCTGATTGCCAAAATATCCAAG  
AGGCTACAAGTGCTGCTTACCACAGCTCAGAAGAGGGTGTACAGTTTGTATGGAGAACAATTCTTATCC  
TCGGTTCTGGAGTCCGAATTCTACCAGACTTATGTAAAAAGCCACAGATCACCCACGGAGCCCCATGCT  
ACA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG202294 representing NM\_009061  
 Red=Cloning site Green=Tags(s)

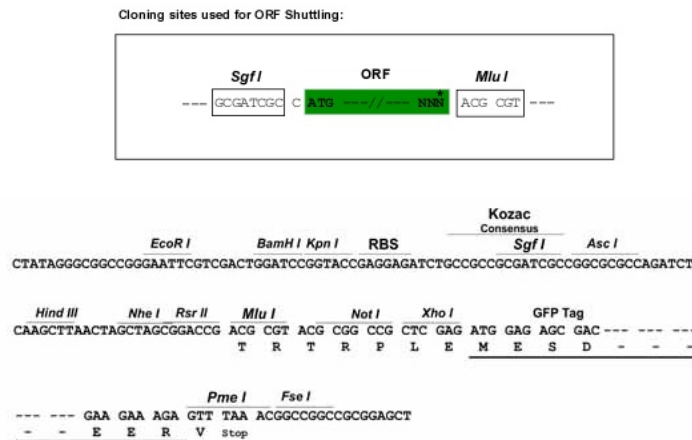
MQSAMFLAVQHDCVPMDKSAGNGPKVEEKREKMKRLLKDWKTRLSYFLQNSSAPGPKPTGKKSQQQTFI  
 KPSPEEAQLWAEAFDELLASKYGLAAFRFLKSEFCEENIEFWLACEDFKKTKSPQKLSKARKIYTDFI  
 EKEAPKEINIDFQTKSLIAQNIQEATSGCFTTAQKRVSLSMENNYSYPRFLESEFYQDLCKKPKITTEPHA  
 T

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2017\\_e08.zip](https://cdn.origene.com/chromatograms/ja2017_e08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_009061

**ORF Size:** 633 bp

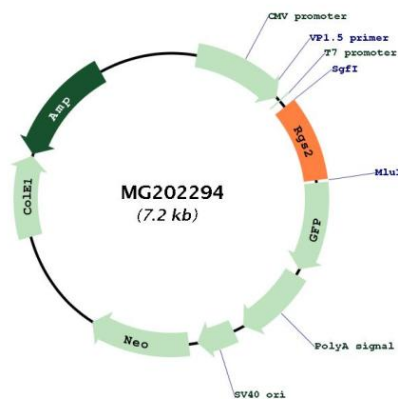
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_009061.4</a></u>
<b>RefSeq Size:</b>	2353 bp
<b>RefSeq ORF:</b>	636 bp
<b>Locus ID:</b>	19735
<b>UniProt ID:</b>	<u><a href="#">Q08849</a></u>
<b>Cytogenetics:</b>	1 62.56 cM
<b>Gene Summary:</b>	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