

## Product datasheet for **RG202781**

### RGS2 (NM\_002923) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RGS2 (NM\_002923) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** RGS2  
**Synonyms:** G0S8  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG202781 representing NM\_002923  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAAAGTGCTATGTTCTTGGCTGTTCAACACGACTGCAGACCCATGGACAAGAGCGCAGGCAGTGCC  
ACAAGAGCGAGGAGAAGCGAGAAAAGATGAAACGGACCCTTTTAAAAGATTGGAAGACCCGTTTGAGCTA  
CTTCTTACAAAATTCCTCTACTCCTGGGAAGCCAAAACCGGCAAAAAAGCAAACAGCAAGCTTTCATC  
AAGCCTTCTCCTGAGGAAGCACAGCTGTGGTCAGAAGCATTGACGAGCTGCTAGCCAGCAAATATGGTC  
TTGCTGCATTAGGGCTTTTTAAAGTCGGAATTCGTGAAGAAAATATTGAATTCTGGCTGGCCTGTGA  
AGACTTCAAAAAACCAATCACCCAAAAGCTGTCTCAAAGCAAGGAAAATATATACTGACTTCATA  
GAAAAGGAAGCTCCAAAAGAGATAAACATAGATTTTCAAACAAAACCTGATTGCCAGAAATATACAAG  
AAGCTACAAGTGCTGCTTACAACGCCCAGAAAAGGTATACAGCTTGATGGAGAACAACCTTATACC  
TCGTTTCTGGAGTCAGAATTCTACCAGGACTTGTA AAAAGCCACAAATCACCACAGAGCCTCATGCT  
ACA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202781 representing NM\_002923  
Red=Cloning site Green=Tags(s)

MQSAMFLAVQHDCRPMDKSAGSGHKSEEKREKMKRLLKDWKTRLSYFLQNSSTPGPKTGKKSQQAFI  
 KPSPEEAQLWSEAFDELLASKYGLAAFRFLKSEFCEENIEFWLACEDFKKTKSPQKLSKARKIYTDFI  
 EKEAPKEINIDFQTKTLIAQNIQEATSGCFTTAQKRVYSLMENNYSYPRFLESEFYQDLCKKPKITTEPHA  
 T

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002923

**ORF Size:** 633 bp

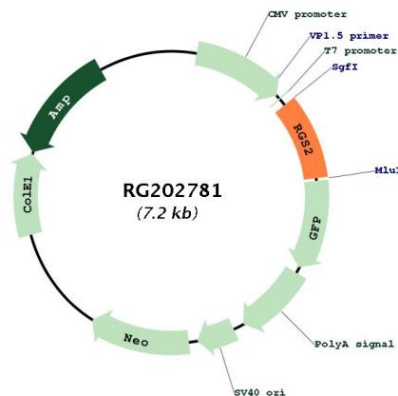
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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>	<a href="#">NM_002923.4</a>
<b>RefSeq Size:</b>	1345 bp
<b>RefSeq ORF:</b>	636 bp
<b>Locus ID:</b>	5997
<b>UniProt ID:</b>	<a href="#">P41220</a>
<b>Cytogenetics:</b>	1q31.2
<b>Domains:</b>	RGS
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	Regulator of G protein signaling (RGS) family members are regulatory molecules that act as GTPase activating proteins (GAPs) for G alpha subunits of heterotrimeric G proteins. RGS proteins are able to deactivate G protein subunits of the Gi alpha, Go alpha and Gq alpha subtypes. They drive G proteins into their inactive GDP-bound forms. Regulator of G protein signaling 2 belongs to this family. The protein acts as a mediator of myeloid differentiation and may play a role in leukemogenesis. [provided by RefSeq, Aug 2009]

### Product images:



Circular map for RG202781