

## Product datasheet for **SC118352**

### **RGS2 (NM\_002923) Human Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RGS2 (NM\_002923) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** RGS2  
**Synonyms:** G0S8  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_002923 edited  
ATGCAAAGTGCTATGTTCTTGGCTGTTCAACACGACTGCAGACCCATGGACAAGAGCGCA  
GGCAGTGGCCACAAGAGCGAGGAGAAGCGAGAAAAGATGAAACGGACCCTTTTAAAAGAT  
TGGAAAGACCCGTTTGAGCTACTTCTTACAAAATTCCTCTACTCCTGGGAAGCCAAAACC  
GGCAAAAAAGCAAACAGCAAGCTTTCATCAAGCCTTCTCCTGAGGAAGCACAGCTGTGG  
TCAGAAGCATTTGACGAGCTGCTAGCCAGCAAATATGGTCTTGCTGCATTGAGGGCTTTT  
TTAAAGTCGGAATTCTGTGAAGAAAATATTGAATTCTGGCTGGCCTGTGAAGACTTCAA  
AAAACCAAATCACCCAAAAGCTGCTCCTCAAAGCAAGGAAAATATATACTGACTTCATA  
GAAAAGGAAGCTCCTAAAAGAGATAAACATAGATTTTCAAACAAAACCTCTGATTGCCAG  
AATATACAAGAAGCTACAAGTGGCTGCTTACAACCTGCCAGAAAAGGTATACAGCTTG  
ATGGAGAACAACCTTATCCTCGTTTCTTGGAGTCAGAATTCTACCAGGACTTGTGTA  
AAGCCACAATCACCACAGAGCCTCATGCTACATGA



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002923 unedited  
 AGCATATTTGTATACGACTCACTATAGGGCGGCNCGCAATTCGCACGAGGGGGAGAACG  
 ATAATGCAAAGTGCTATGTTCTTGGCTGTTCAACACGACTGCAGACCCATGGACAAGAGC  
 GCAGGCAGTGGCCACAAGAGCGAGGAGAAGCGAGAAAAGATGAAACGGACCCTTTAAAA  
 GATTGGAAGACCCGTTTGAGCTACTTCTTACAAAATTCCTCTACTCTGGGAAGCCAAA  
 ACCGGCAAAAAAGCAAACAGCAAGCTTTCATCAAGCCTTCTCCTGAGGAAGCACAGCTG  
 TGGTCAGAAGCATTGACGAGCTGCTAGCCAGCAAATATGGTCTTGTCTGCATTCAGGGCT  
 TTTTAAAGTCGGAATTCGTGAAGAAAATATTGAATTCGGCTGGCCTGTGAAGACTTC  
 AAAAAACCAAATCACCCAAAAGCTGTCTCAAAGCAAGGAAAATATATACTGACTTC  
 ATAGAAAAGGAAGCTCCAAAAGAGATAAACATAGATTTTCAAACCAAACCTCTGATTGCC  
 CAGAATATACAAGAAGCTACAAGTGGCTGCTNTACAACCTGCCAGAAANAGGGTATACAGC  
 TTGATGGAGAACAACCTTATCCTCGTTTCTTGGAGTCAGAATTCACCAGGACTTGTGN  
 TAAAAGCCACANATCACACAGAGCCTCATGCTACATGAAATGTANAAGGGAGCCCCAGA  
 ATGGAGGACATTTCAATCTTTNCCTGAGGGGAAGGACTGTGACCTGCCATANAGACTGA  
 CCTTGNATNCAGCCTGGGTGTTCAAGNAACATCACTCAGAACTATTGATCCAAAGNTGGG  
 GTAGTGAATCAGGAAGCCAGTACTGACTAGGAGAAGCTGGTATCAGAACAGCTTNCCTC  
 ACTGTGTACAGACGCCAGAGGNATAGGTGTCTGAACGTGTGTCTCATCTGAAAGCAGAA  
 TGTAGATGAG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_002923 unedited  
 CAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTAAATATTATTTATCAAATAAATTTAT  
 TAAAAGTATTCAAAGACCACTTCAAAGTGTAGCTGCCTTCAAGACAGATTTTGGCACTC  
 ATAACGGACACTGCAGTTTTCAACACCATAGCACTCATTCTATTTACACATCATTTTTTA  
 ACAATGCAAACACGGACCATTTCAAGTTTTAGCATTACATGAGACAACAGTACTGATGATC  
 TGTGGACATAAAAACTTCAATACCGTTGCACATAGTAAACACTTAACTGTTACTGAATCC  
 TAAACTAAAACACTATGTGGTAACATGGATCGATTAAGGGAAAGATGTACAACCAGCTA  
 CCTAAGGCCACATAATCCAGATCTATTGATTTTAAATGCTTTTGGACCAACAGTATTAC  
 ATGTCTCTTTCATCATCTTACATTCCTGCTTTTCAGAGTGAGACACCAGTTCAGACCA  
 CCTATTCCTTCTTGCCTTCTGTACACAGTGAGGGAAGCTGTTCTGATACCAGCTTCTCC  
 TAGTCAGTTACTGGCTTCTGATTCTACCCAACCTTGAATCAATAGTTCTGAGTGATGT  
 TTCCTAGACACTCCAGCTGAATTCAGGTCAGTCTTTATGGAAGGTCACAGTGCTTCCCC  
 TCAGGAAAAGAACGAAATGTCCTCCATTTCTGGGCTCACTTTACATTCATGTACATGAGG  
 CTCGGTGGGATTTGTGCCTTTTACCAGTCTGGAATTCGACTCCAGAACGAGATAGAG  
 CTGTCTCATCAGCTGTAACCTTTCTGCCACNTGAAAGCACCCCTTGTATTCTTGTATC  
 TGGCATACAGTTTGTGAAAACAGTNATCTTTGAGCTGCTTTCAGAGCAGAAATTTTC  
 CTGTTTGAGACACTTGGGGATTGCTTTTGAACACAGCCCCATAAATTTCTCCACAT  
 CCAT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_002923

**Insert Size:**

1330 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](#)

**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.

**RefSeq:** [NM\\_002923.1](#), [NP\\_002914.1](#)

**RefSeq Size:** 1345 bp

**RefSeq ORF:** 636 bp

**Locus ID:** 5997

**UniProt ID:** [P41220](#)

**Cytogenetics:** 1q31.2

**Domains:** RGS

**Protein Families:** Druggable Genome

**Gene Summary:** 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]