

Product datasheet for SC300912

RGS10 (NM_001005339) Human Untagged Clone

Product data:

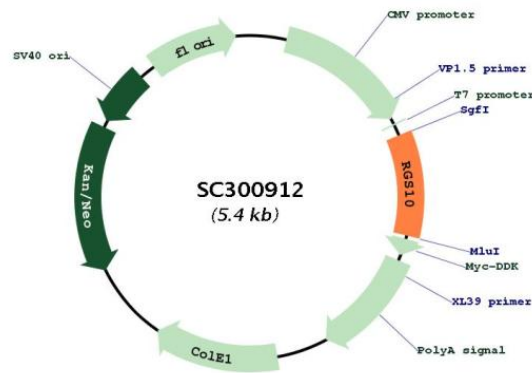
Product Type: Expression Plasmids
 Product Name: RGS10 (NM_001005339) Human Untagged Clone
 Tag: Tag Free
 Symbol: RGS10
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Fully Sequenced ORF: >SC300912 representing NM_001005339.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTCAACCGCGCCGTGAGCCGGCTGAGCAGGAAGCGGCCGCCGTGAGACATCCACGACAGCGATGGC
AGTTCCAGCAGCAGCCACCAGAGCCTCAAGAGCACAGCCAAATGGGCGGCATCCCTGGAGAATCTGCTG
GAAGACCCAGAAGGCGTGAAGATTTAGGGAATTTTAAAAAAGGAATTCAGTGAAGAAAATGTTTTG
TTTTGGCTAGCATGTGAAGATTTAAGAAAATGCAAGATAAGACGCAGATGCAGGAAAAGGCAAAGGAG
ATCTACATGACCTTTCTGTCCAGCAAGGCCTCATCACAGGTCAACGTGGAGGGGCAGTCTCGGCTCAAC
GAGAAGATCCTGGAAGAACCGCACCTCTGATGTTCCAGAACTCCAGGACCAGATCTTTAATCTCATG
AAGTACGACAGCTACAGCCGCTTCTTAAAGTCTGACTTGTTTTTTAAACACAAGCGAACCAGGAAGAG
GAAGAAGATTTGCCTGATGCTCAAAGTGCAGCTAAAAGAGCTTCCAGAATTTATAACACATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001005339

Insert Size: 546 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 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<u>NM_001005339.1</u>
RefSeq Size:	910 bp
RefSeq ORF:	546 bp
Locus ID:	6001
UniProt ID:	<u>O43665</u>
Cytogenetics:	10q26.11
MW:	21.2 kDa
Gene Summary:	<p>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 10 belongs to this family. All RGS proteins share a conserved 120-amino acid sequence termed the RGS domain. This protein associates specifically with the activated forms of the two related G-protein subunits, G-alpha_{i3} and G-alpha_z but fails to interact with the structurally and functionally distinct G-alpha subunits. Regulator of G protein signaling 10 protein is localized in the nucleus. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).</p>