

## Product datasheet for **RG215410**

### **RGS10 (NM\_002925) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RGS10 (NM\_002925) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** RGS10  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG215410 representing NM\_002925  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAACACATCCACGACAGCGATGGCAGTTCCAGCAGCAGCCACCAGAGCCTCAAGAGCACAGCCAAAT  
 GGGCGGCATCCCTGGAGAATCTGCTGGAAGACCCAGAAGCGTGAAAAGATTTAGGGAATTTTTAAAAA  
 GGAATTCAGTGAAGAAAATGTTTTGTTTTGGCTAGCATGTGAAGATTTAAGAAAATGCAAGATAAGACG  
 CAGATGCAGGAAAAGCAAAGGAGATCTACATGACCTTCTGTCCAGCAAGGCCTCATCACAGGTCAACG  
 TGGAGGGCAGTCTCGGCTCAACGAGAAGATCCTGGAAGAACCAGCCCTCTGATGTTCCAGAACTCCA  
 GGACCAGATCTTTAATCTCATGAAGTACGACAGCTACAGCCGCTTCTTAAAGTCTGACTTGTTTTTAAAA  
 CACAAGCGAACCAGGAAGGAAGAAGATTTGCCTGATGCTCAAACCTGCAGCTAAAAGAGCTTCCAGAA  
 TTTATAACACA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG215410 representing NM\_002925  
 Red=Cloning site Green=Tags(s)

MEIHSDSGSSSSHQSLKSTAKWAASLENLLEDPEGVKRFREFLKKEFSEENVLFWLACEDFKMQDKT  
 QMQEKAKEIYMTFLSSKASSQVNVGQSRLENEKILEEPHPLMFQKLQDQIFNLMKYDSYSRFLKSDLFLK  
 HKRTEEEEEEDLPDAQTAKRASRIYNT

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_002925

**ORF Size:** 501 bp

**OTI Disclaimer:** 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.

**RefSeq:** [NM\\_002925.3](#), [NP\\_002916.1](#)

**RefSeq Size:** 859 bp

**RefSeq ORF:** 504 bp

**Locus ID:** 6001

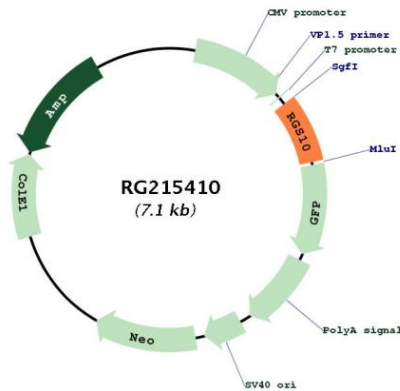
UniProt ID: [O43665](#)

Cytogenetics: 10q26.11

Domains: RGS

**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 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<sub>i3</sub> and G-alpha<sub>z</sub> 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]

**Product images:**



Circular map for RG215410