

Product datasheet for **RG202430**

RGS16 (NM_002928) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RGS16 (NM_002928) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RGS16
Synonyms: A28-RGS14; A28-RGS14P; RGS-R
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202430 representing NM_002928
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTGCCGCACCCTGGCCGCTTCCCCACCACCTGCCTGGAGAGAGCCAAAGAGTTCAGACACGTCTGG
 GGATCTTTCTTCACAAATCAGAGCTGGGCTGCGATACTGGGAGTACTGGCAAGTTCGAGTGGGCAGTAA
 ACACAGCAAAGAGAATAGAACTTCTCAGAAGATGTGCTGGGTGGAGAGAGTTCGACCTGCTGCTG
 AGCAGTAAAAATGGAGTGGCTGCCTCCACGCTTCTCAGAACAGAGTTCAGTGAGGAGAACCTGGAGT
 TCTGGCTGGCCTGTGAGGAGTTCAGAAGATCCGATCAGCTACCAAGCTGGCCTCCAGGGCACACCAGAT
 CTTTGAGGAGTTCATTTGCAGTGAGGCCCTAAAGAGGTCAACATTGACCATGAGACCCGCGAGCTGACG
 AGGATGAACCTGCAGACTGCCACAGCCACATGCTTTGATGCGGCTCAGGGGAAGACAGTACCCTGATGG
 AGAAGGACTCCTACCCACGCTTCTGAAGTCGCCTGCTTACCGGGACCTGGCTGCCAAGCCTCAGCCGC
 CTCTGCCACTCTGTCCAGCTGCAGCCTGGACGAGCCCTCACACACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202430 representing NM_002928
 Red=Cloning site Green=Tags(s)

MCRTLAAFPTTCLERAKEFKTRLGIFLHKSELGCDTGSTGKFEWGSKHSKENRNFSEDLVWRESFDLLL
 SSKNGVAAFHAFKTEFSEENLEFWLACEEFKKIRSATKLASRAHQIFEEFICSEAPKEVNIDHETRELT
 RMNLQTATATCFDAAQKTRTLMEKDSYPRFLKSPAYRDLAAQASAASATLSSCSLDEPSHT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:


ACCN: NM_002928

ORF Size: 606 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_002928.2](#), [NP_002919.2](#)

RefSeq Size: 2447 bp

RefSeq ORF: 609 bp

Locus ID: 6004

UniProt ID: [O15492](#)

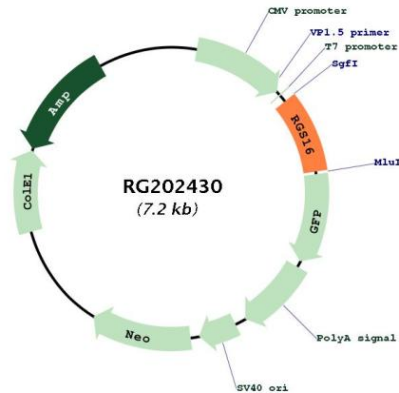
Cytogenetics: 1q25.3

Domains: RGS

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene belongs to the 'regulator of G protein signaling' family. It inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits. It also may play a role in regulating the kinetics of signaling in the phototransduction cascade. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG202430