

Product datasheet for **RG201859**

RGS17 (NM_012419) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: RGS17
Synonyms: hRGS17; RGS-17; RGSZ2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG201859 representing NM_012419
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGCGAAAAAGGCAGCAGTCCCAAAATGAAGGAACACCTGCCGTGTCTCAAGCTCCTGGAACCAGAGGC
CCAACAACACCTGTTGCTTTTGTGGTGCTGTTGTTGCAGCTGCTCCTGCCTCACTGTGAGGAATGAAGA
AAGAGGGGAAAAATGCGGAAGACCCACACACTACAAAAATGGAGAGTATCCAGGTCCTAGAGGAATGC
CAAAACCCCACTGCAGAGGAAGTCTTGCTGCTCAAAATTTTGACAAGATGATGAAGGCCCCAGCAG
GAAGAAACCTTTTCAGAGAGTTCTCCGAACAGAATACAGTGAAGAGAACCCTACTTTTCTGGCTTGCTTG
TGAAGACTTAAAGAAGGAGCAGAACAAAAAGTAATTGAAGAAAAGGCTAGGATGATATATGAAGATTAC
ATTTCTATACTATACCAAAAGAGGTCAGTCTTGATTCTCGAGTTAGAGAGGTGATCAATAGAAATCTGT
TGGATCCCAATCCTCACATGTATGAAGATGCCCACTTCAGATATATACTTTAATGCACAGAGATTCTTT
TCCAAGGTTTTGAAGTCTCAAAATTATAAGTCATTTGTTGAAAGTACTGCTGGCTCTTCTCTGAATCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201859 representing NM_012419
Red=Cloning site Green=Tags(s)

MRKRQQSQNEGTPAVSQAPGNQRPNNNTCCFCWCCCCSCSCLTVRNEERGENAGRPTHHTKMESIQVLEEC
QNPTAEVLWSQNFDKMMKAPAGRNLFREFLRTEYSEENLLFWLACEDLKKEQNKKVIEEKARMYEDY
ISILSPKEVSLDSRVREVINRLLDPNPHMYEDAQLQIYTLMHRDSFPRFLNSQIYKSFVESTAGSSSES

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN:	NM_012419
ORF Size:	630 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_012419.5
RefSeq Size:	1472 bp

RefSeq ORF: 633 bp

Locus ID: 26575

UniProt ID: [Q9UGC6](#)

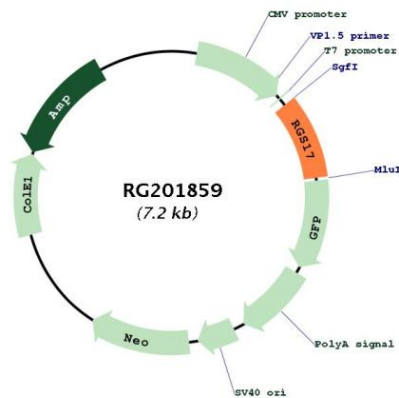
Cytogenetics: 6q25.2

Domains: RGS

Protein Families: Druggable Genome

Gene Summary: This gene encodes a member of the regulator of G-protein signaling family. This protein contains a conserved, 120 amino acid motif called the RGS domain and a cysteine-rich region. The protein attenuates the signaling activity of G-proteins by binding to activated, GTP-bound G alpha subunits and acting as a GTPase activating protein (GAP), increasing the rate of conversion of the GTP to GDP. This hydrolysis allows the G alpha subunits to bind G beta/gamma subunit heterodimers, forming inactive G-protein heterotrimers, thereby terminating the signal. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG201859