

Product datasheet for **RG209082**

RGS19 (NM_005873) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGS19 (NM_005873) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RGS19
Synonyms:	GAIP; RGSGAIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209082 representing NM_005873 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCACCCCGCATGAGGCTGAGAAGCAGATCACAGGGCCAGAGGAGCGGACCGGCCCCCTTCAATGT
CCAGTCATGATACAGCCTCTCCAGCGGCCCCAGCCGCAACCCCTGCTGCCTGTGCTGGTGTCTGCTGCTG
TAGCTGCTCCTGGAACCAAGAGCGGGCGCGCGTGGCAGGCCTCCGGGAGAGCAAGCTGCAGCCCTC
CCCAGCTGTGAAGTATGTCCACGCCAAGTCTGAGGAGGTGCAGAGCTGGCGCAGTCTTTTGACAAGC
TGATGCACAGCCCAGCGGACGCAGCGTGTCCGGCGTTCCTGCGGACAGAGTACAGCGAGGAGAACAT
GCTCTTCTGGTTGGCCTGCGAGGAGCTGAAGGCCGAGGCCAACCCAGCATGTGGTAGACGAGAAGGCGAGG
CTCATCTACGAGGACTACGTATCCATCCTGTCCCCAAGGAGGTGAGCCTGGACTCCCGTGTGCGGGAGG
GCATCAACAAGAAGATGCAGGAGCCGTCCGCACACACGTTTCGACGACGCGCAGCTGCAGATCTACAGCT
CATGCACCGGGACTCCTACCCCGCTTCTCAGCTCTCCACCTACCGTGCCTGCTGCTGCAGGGGCCA
TCACAGTCTCTCCGAGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209082 representing NM_005873
 Red=Cloning site Green=Tags(s)

MPTPHEAEKQITGPPEADRPPSMSSHDTASPAAPSRNPCCLCWCCCCSCSWNQERRRAWQASRESKLQPL
 PSCEVCATPSPEEVQSWAQSFDKLMHSPAGRSVFRFLRTEYSEENMLFWLACEELKAEANQHVVDEKAR
 LIYEDYVSILSPKEVSLDSRVREGINKKMQEPSAHTFDDAQLQIYTLMHRDSYPRFLSSPTYRALLLQGP
 SQQSSSEA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005873

ORF Size: 651 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_005873.3](#)

RefSeq Size: 1587 bp

RefSeq ORF: 654 bp

Locus ID: 10287

UniProt ID: [P49795](#)

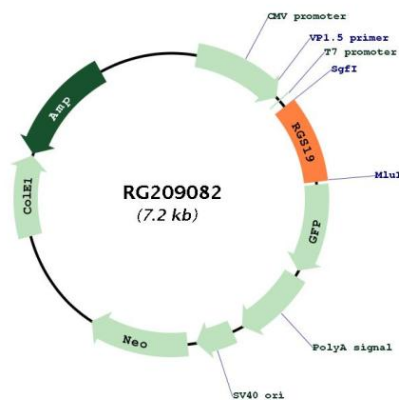
Cytogenetics: 20q13.33

Domains: RGS

Protein Families: Druggable Genome

Gene Summary: G proteins mediate a number of cellular processes. The protein encoded by this gene belongs to the RGS (regulators of G-protein signaling) family and specifically interacts with G protein, GAI3. This protein is a guanosine triphosphatase-activating protein that functions to down-regulate Galpha i/Galpha q-linked signaling. Alternatively spliced transcript variants encoding the same protein isoform have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG209082