

Product datasheet for **RC201715**

RGS19 (NM_001039467) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: RGS19 (NM_001039467) Human Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: RGS19
 Synonyms: GAIP; RGSGAIP
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >RC201715 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCACCCCGCATGAGGCTGAGAAGCAGATCACAGGGCCAGAGGAGCGGACCGGCCCCCTTCAATGT
 CCAGTCATGATACAGCCTCTCCAGCGGCCCCAGCCGCAACCCCTGCTGCCTGTGCTGGTGTCTGCTGCTG
 TAGCTGCTCCTGGAACCAAGAGCGGGCGCGCGTGGCAGGCCTCCGGGAGAGCAAGCTGCAGCCCTC
 CCCAGCTGTGAAGTATGTCCACGCCAAGTCTGAGGAGGTGCAGAGCTGGCGCAGTCTTTTGACAAGC
 TGATGCACAGCCAGCGGACGCAGCGTGTCCGGCGTTCCTGCGGACAGAGTACAGCGAGGAGAACAT
 GCTCTTCTGGTTGGCCTGCGAGGAGCTGAAGGCCGAGGCCAACAGCATGTGGTAGACGAGAAGGCGAGG
 CTCATCTACGAGGACTACGTATCCATCCTGTCCCCAAGGAGGTGAGCCTGGACTCCCGTGTGCGGGAGG
 GCATCAACAAGAAGATGCAGGAGCCGTCCGCACACACGTTTCGACGACGCGCAGCTGCAGATCTACAGCT
 CATGCACCGGACTCCTACCCCGCTTCTCAGCTCTCCACCTACCGTGCCTGCTGCTGCAGGGGCCA
 TCACAGTCCTCTCCGAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201715 protein sequence
Red=Cloning site Green=Tags(s)

MPTPHEAEKQITGPEEADRPPSMSSHDTASPAAPSRNPCCLCWCCCCSCSWNQERRRAWQASRESKLQPL
 PSCEVCATPSPEEVQSWAQSFDKLMHSPAGRSVFRFLRTEYSEENMLFWLACEELKAEANQHVVDEKAR
 LIYEDYVSILSPKEVSLDSRVREGINKKMQEPSAHTFDDAQLQIYTLMHRDSYPRFLSSPTYRALLLQGP
 SQSSSEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6300_d03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001039467

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_001039467.2](#)

RefSeq Size: 1493 bp

RefSeq ORF: 654 bp

Locus ID: 10287

UniProt ID: [P49795](#)

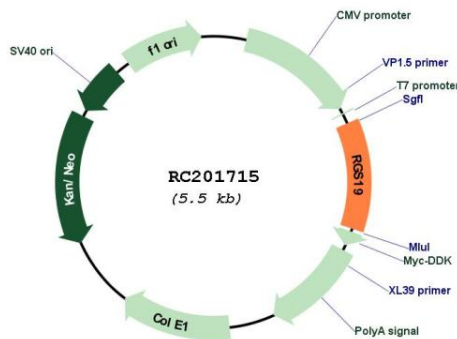
Cytogenetics: 20q13.33

Protein Families: Druggable Genome

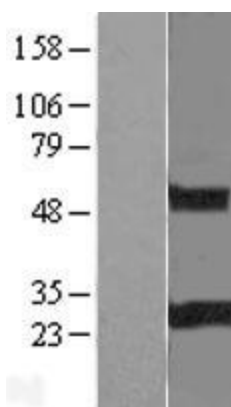
MW: 24.6 kDa

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]

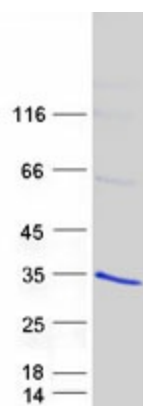
Product images:



Circular map for RC201715



Western blot validation of overexpression lysate (Cat# [LY422051]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201715 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RGS19 protein (Cat# [TP301715]). The protein was produced from HEK293T cells transfected with RGS19 cDNA clone (Cat# RC201715) using MegaTran 2.0 (Cat# [TT210002]).