

## Product datasheet for **RC203804**

### **RGS13 (NM\_144766) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RGS13 (NM_144766) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RGS13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203804 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCAGGCGGAATTGTTGGATTTGTAAGATGTGCAGAGATGAATCTAAGAGGCCCTTCAAACCTTA  
CTTTGGAGGAAGTATTACAGTGGGCCAGTCTTTTGAAATTTAATGGCTACAAAATATGGTCCAGTAGT  
CTATGCAGCATATTTAAAAATGGAGCACAGTGACGAGAATTTCAATTCTGGATGGCATGTGAAACCTAT  
AAGAAAATTGCCTCACGGTGGAGCAGAATTTCTAGGGCAAAGAAGCTTTATAAGATTTACATCCAGCCAC  
AGTCCCTAGAGAGATTAACTTGACAGTTCGACAAGAGAGACTATCATCAGGAACATTCAGGAACCCAC  
TGAAACATGTTTTGAAGAAGCTCAGAAAATAGTCTATATGCATATGGAAGGGATTCTACCCAGATTT  
CTAAAGTCAGAAATGTACCAAAACTTTTGAAACTATGCAGTCCAACAACAGTTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC203804 protein sequence Red=Cloning site Green=Tags(s)
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MSRRNCWICKMCRDESKRPPSNLTLEEVLQWQSFENLMATKYGPVYAAAYLKMEHSDENIQFWMACETY  
KKIASRWSRISRAKKLYKIYIQPSPREINIDSSRETIIIRNIQEPTETCFEEAQKIVYMHMERDSYPRF  
LKSEMYQKLLKTMQSNNSF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk6310\\_g10.zip](https://cdn.origene.com/chromatograms/mk6310_g10.zip)

Restriction Sites: SgfI-MluI



[View online »](#)

**Cloning Scheme:**


**ACCN:** NM\_144766

**ORF Size:** 477 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\\_144766.3](#)

**RefSeq Size:** 1538 bp

**RefSeq ORF:** 480 bp

**Locus ID:** 6003

UniProt ID: [O14921](#)

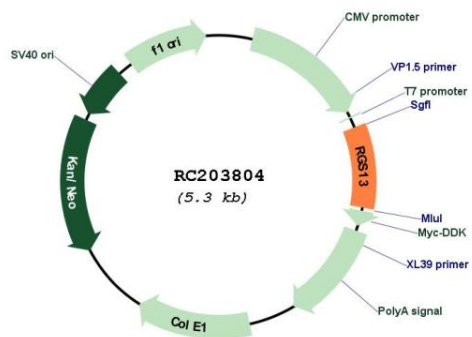
Cytogenetics: 1q31.2

Protein Families: Druggable Genome

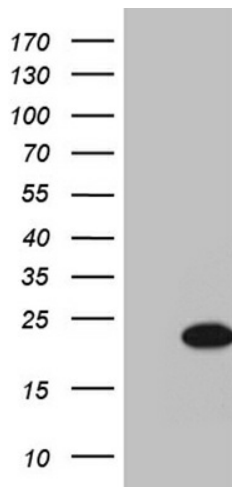
MW: 19.1 kDa

**Gene Summary:** The protein encoded by this gene is a member of the regulator of G protein signaling (RGS) family. RGS family members share similarity with *S. cerevisiae* SST2 and *C. elegans* egl-10 proteins, which contain a characteristic conserved RGS domain. RGS proteins accelerate GTPase activity of G protein alpha-subunits, thereby driving G protein into their inactive GDP-bound form, thus negatively regulating G protein signaling. RGS proteins have been implicated in the fine tuning of a variety of cellular events in response to G protein-coupled receptor activation. The biological function of this gene, however, is unknown. Two transcript variants encoding the same isoform exist. [provided by RefSeq, Jul 2008]

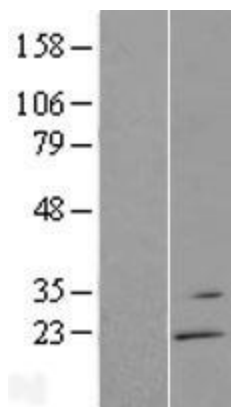
## Product images:



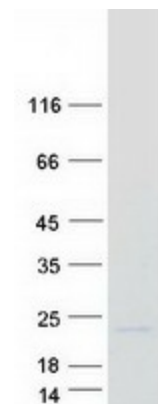
Circular map for RC203804



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RGS13 (Cat# RC203804, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RGS13 (Cat# [TA809778])(1:2000). Positive lysates [LY408107] (100ug) and [LC408107] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY419008]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC208904] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RGS13 protein (Cat# [TP303804]). The protein was produced from HEK293T cells transfected with RGS13 cDNA clone (Cat# RC203804) using MegaTran 2.0 (Cat# [TT210002]).