

## Product datasheet for **RC208904**

### RGS13 (NM\_002927) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RGS13 (NM\_002927) 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:** >RC208904 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGCAGGCGGAATTGTTGGATTTGTAAGATGTGCAGAGATGAATCTAAGAGGCCCCCTCAAACCTTA  
 CTTTGGAGGAAGTATTACAGTGGGCCAGTCTTTTGAAAATTTAATGGCTACAAAATATGGTCCAGTAGT  
 CTATGCAGCATATTTAAAAATGGAGCACAGTGACGAGAATTTCAATTCTGGATGGCATGTGAAACCTAT  
 AAGAAAATTGCCTCACGGTGGAGCAGAAATTTCTAGGGCAAAGAAGCTTTATAAGATTTACATCCAGCCAC  
 AGTCCCCTAGAGAGATTAACTTGACAGTTCGACAAGAGAGACTATCATCAGGAACATTCAGGAACCCAC  
 TGAACATGTTTTGAAGAAGCTCAGAAAATAGTCTATATGCATATGAAAAGGGATTCTACCCAGATTT  
 CTAAAGTCAGAAATGTACCAAAAACCTTTTGAAAACATGCAGTCCAACAACAGTTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC208904 protein sequence  
 Red=Cloning site Green=Tags(s)

MSRRNCWICKMCRDESKRPPSNLTLEEVLQWAQSFENLMATKYGPVVYAAYLKMEHSDENIQFWMACETY  
 KKIASRWSRISRAKKLYKIYIQQSPREINIDSSRETIIIRNIQEPTETCFEEAQKIVYMHMERDSYPRF  
 LKSEMYQKLLKTMQSNNSF

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

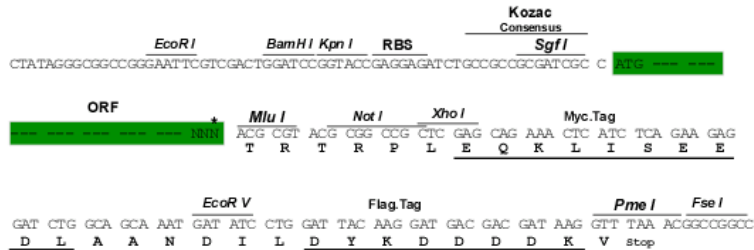
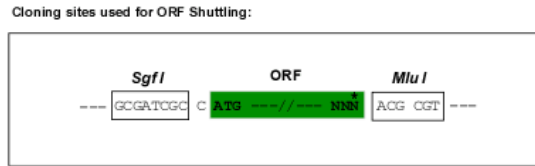
**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6310\\_g10.zip](https://cdn.origene.com/chromatograms/mk6310_g10.zip)

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

ACCN: NM\_002927

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.

RefSeq: [NM\\_002927.5](#)

RefSeq Size: 1578 bp

RefSeq ORF: 480 bp

Locus ID: 6003

UniProt ID: [O14921](#)

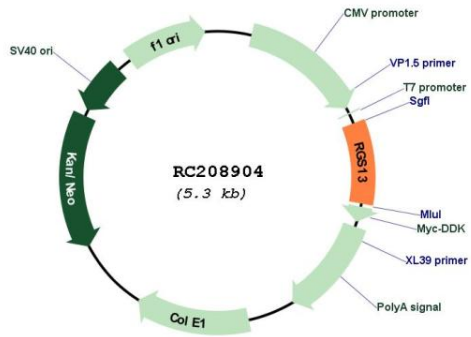
**Cytogenetics:** 1q31.2

**Protein Families:** Druggable Genome

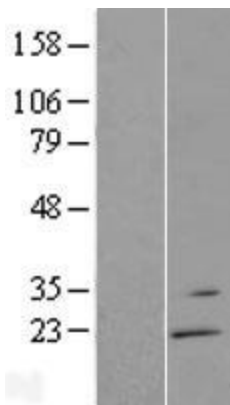
**MW:** 19.1 kDa

**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 RC208904



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]).