

## **Product datasheet for RC211440**

# RGS21 (NM 001039152) Human Tagged ORF Clone

### **Product data:**

**Product Type:** Expression Plasmids

Product Name: RGS21 (NM\_001039152) Human Tagged ORF Clone

Tag:Myc-DDKSymbol:RGS21

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC211440 representing NM\_001039152
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGCCAGTGAAATGCTGTTTCTACAGGTCACCAACTGCGGAAACAATGACATGGTCTGAAAATATGGACA CGCTTTTAGCCAACCAAGCTGGTCTAGATGCTTTTCGAATATTTCTAAAATCAGAGTTTAGTGAAGAAAA TGTTGAGTTCTGGCTTGCCTGTGAAGACTTTAAGAAAACGAAAAATGCAGACAAAATTGCTTCCAAAGCC AAGATGATTTATTCTGAATTCATTGAAGCTGATGCACCTAAAGAGATTAACATTGACTTCGGTACCAGAG ACCTCATCTCAAAGAATATTGCTGAACCAACACTCAAATGCTTTGATGAGGCTCAGAAATTAATCTATTG TCTCATGGCCAAGGATTCTTCCCTCGATTTCTGAAGTCAGAGATTTATAAAAAAACTGGTAAATAGCCAA

CAGGTTCCAAATCATAAAAAATGGCTCCCTTTTTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC211440 representing NM\_001039152

Red=Cloning site Green=Tags(s)

MPVKCCFYRSPTAETMTWSENMDTLLANQAGLDAFRIFLKSEFSEENVEFWLACEDFKKTKNADKIASKA KMIYSEFIEADAPKEINIDFGTRDLISKNIAEPTLKCFDEAQKLIYCLMAKDSFPRFLKSEIYKKLVNSQ

QVPNHKKWLPFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: <a href="https://cdn.origene.com/chromatograms/mk8025">https://cdn.origene.com/chromatograms/mk8025</a> g10.zip

**Restriction Sites:** Sgfl-Mlul



**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

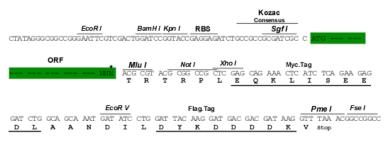
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



#### **Cloning Scheme:**





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_001039152

ORF Size: 456 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 001039152.3, NP 001034241.1

 RefSeq Size:
 1795 bp

 RefSeq ORF:
 459 bp

 Locus ID:
 431704

 UniProt ID:
 Q2M5E4



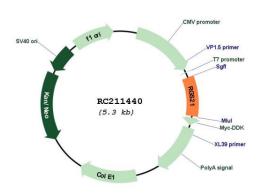
**Cytogenetics:** 1q31.2 **MW:** 17.5 kDa

**Gene Summary:** Regulator of G protein signaling (RGS) proteins are regulatory and structural components of

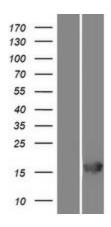
G protein-coupled receptor complexes. RGS proteins are GTPase-activating proteins for Gi (see GNAI1; MIM 139310) and Gq (see GNAQ; MIM 600998) class G-alpha proteins. They accelerate transit through the cycle of GTP binding and hydrolysis and thereby accelerate

signaling kinetics and termination.[supplied by OMIM, Nov 2008]

## **Product images:**



Circular map for RC211440



Western blot validation of overexpression lysate (Cat# [LY422023]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211440 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).