

## Product datasheet for **RG209495**

### **RGS20 (NM\_003702) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RGS20 (NM_003702) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RGS20
Synonyms:	g(z)GAP; gz-GAP; RGSZ1; ZGAP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209495 representing NM_003702 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGCGCACGGCGGACGGAGGCGAGCCGGCCGGGGCTTCTCCCGCGCCGGCAGGGTGGACGGTGGGCTCC  
AGATGGGATCAGAGCGGATGGAGATGCGGAAGCGGCAGATGCCCGCCGCCAGGACACACCAGGCGCCGC  
CCCAGGCCAGCCGGAGCGGGAGTCGCGGGTCCAACGCATGCTGCTTCTGCTGGTGTCTGTTGTAGC  
TGCTCGTGTCTACTGTTAGAAACCAGGAAGATCAGAGGCCACAATAGCTTCCCACGAACCTCAGAGCAG  
ATCTTCCAACCTGGGAAGAAAGCCCTGCTCTACTCTGGAAGAAGTCAACGCCTGGGCTCAGTCATTGA  
CAAATTAATGGTCACTCCAGCAGGAAGGAATGCATTCCGTGAATTCCTCGAACAGAATTCAGTGAGGAA  
AATATGCTCTTCTGGATGGCCTGTGAGGAAGTAAAAAGGAAGCTAATAAAAACATTATTGAAGAGAAA  
CAAGGATAATCTATGAAGACTACATTTCTATACTTTCTCCTAAGGAGGTGAGCTTAGACTCCCGGGTGA  
AGAAGTGATCAACAGAAACATGGTGGAGCCATCCAACACATATTCGATGATGCTCAACTTCAGATTTAC  
ACCCTGATGCACAGAGACTCATATCCTCGATTCATGAACCTCTGCTGTCTATAAGGACTTGCTTCAGTCT  
TATCGGAGAAATCTATTGAAGCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >RG209495 representing NM\_003702  
 Red=Cloning site Green=Tags(s)

MRTADGGEPAGASSPAGRVDGGLQMGSERMEMRKRQMPAAQDTPGAAPGQPGAGSRGSNACCCFWCCCCS  
 CSCLTVRNQEDQRPTIASHELRADLPTWEE SPAPTL EEVNAWAQSFDKLMVTPAGRNAFREFLRTEFSEE  
 NMLFWMAACEELKKEANKNIIIEEKARIIYEDYISILSPKEVSLDSRVREVINRNMVEPSQHIFDDAQLQIY  
 TLMHRDSYPRFMNSAVYKDLLQLSLEKSIEA

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_003702

**ORF Size:** 723 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\\_003702.4](#), [NP\\_003693.2](#)

**RefSeq Size:** 1596 bp

**RefSeq ORF:** 726 bp

**Locus ID:** 8601

**UniProt ID:** [O76081](#)

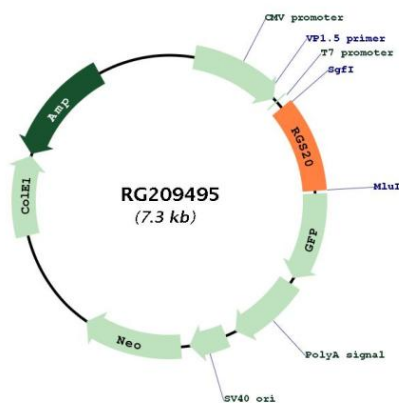
**Cytogenetics:** 8q11.23

**Domains:** RGS

**Protein Families:** Druggable Genome

**Gene Summary:** The protein encoded by this gene belongs to the family of regulator of G protein signaling (RGS) proteins, which are regulatory and structural components of G protein-coupled receptor complexes. RGS proteins inhibit signal transduction by increasing the GTPase activity of G protein alpha subunits, thereby driving them into their inactive GDP-bound forms. This protein selectively binds to G(z)-alpha and G(alpha)-i2 subunits, and regulates their signaling activities. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]

## Product images:



Circular map for RG209495