

## Product datasheet for **SC334217**

### RGS20 (NM\_001286675) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RGS20 (NM_001286675) Human Untagged Clone
Tag:	Tag Free
Symbol:	RGS20
Synonyms:	g(z)GAP; gz-GAP; RGSZ1; ZGAP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001286675, the custom clone sequence may differ by one or more nucleotides

```
ATGAAGGAGACCTCAGGGCTGTTCTGATATCAAGTCTCACTGTTAGAAACCAGGAAGATCAGAGGCCCA  
CAATAGCTTCCCACGAACTCAGAGCAGATCTTCCAACCTGGGAAGAAAGCCCTGCTCTACTCTGGAAGA  
AGTCAACGCTGGGCTCAGTCATTTGACAAATTAATGGTCACTCCAGCAGGAAGGAATGCATTCCGTGAA  
TTCCTCCGAACAGAATTCAGTGAGGAAAATATGCTCTTCTGGATGGCCTGTGAGGAAGTAAAAAGGAAG  
CTAATAAAACATTATTGAAGAGAAAGCAAGGATAATCTATGAAGACTACATTTCTATACTTTCTCCTAA  
GGAGGTGAGCTTAGACTCCCGGGTGAGAGAAGTATCAACAGAAACATGGTGGAGCCATCCCAACACATA  
TTCGATGATGCTCAACTCAGATTTACACCCTGATGCACAGAGACTCATATCCTCGATTCATGAAGTCTG  
CTGTCTATAAGGACTTGCTTCAGTCCTTATCGGAGAAATCTATTGAAGCATAG
```

Restriction Sites:	SgfI-MluI
ACCN:	NM_001286675
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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).



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**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\\_001286675.1](#), [NP\\_001273604.1](#)

**RefSeq Size:** 1611 bp

**RefSeq ORF:** 543 bp

**Locus ID:** 8601

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

**Cytogenetics:** 8q11.23

**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]

Transcript Variant: This variant (5) lacks two in-frame exons in the central coding region which results in the use of an alternate start codon compared to variant 1. The encoded isoform (e) is shorter than isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.