

Product datasheet for SC333988

RGS20 (NM_001286674) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGS20 (NM_001286674) 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:	>SC333988 representing NM_001286674. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
 ATGAAGGAGACCTCAGGGCTGTTCTGATATCAAGCCCTGCTCCTACTCTGGAAGAAGTCAACGCCTGG
 GCTCAGTCATTTGACAAATTAATGGTCACTCCAGCAGGAAGGAATGCATTCCGTGAATTCCTCCGAACA
 GAATTCAGTGAGGAAAATATGCTCTTCTGGATGGCCTGTGAGGAAGTGAAGGAAAGCTAATAAAAC
 ATTATTGAAGAGAAAGCAAGGATAATCTATGAAGACTACATTTCTATACTTTCTCCTAAGGAGGTGAGC
 TTAGACTCCCGGGTGAGAGAAGTGATCAACAGAAACATGGTGGAGCCATCCCAACACATATTCGATGAT
 GCTCAACTTCAGATTTACACCCTGATGCACAGAGACTCATATCCTCGATTCATGAAGTCTGCTGTCTAT
 AAGGACTTGCTTCAGTCCTTATCGGAGAAATCTATTGAAGCATAG
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001286674
Insert Size:	459 bp
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_001286674.1](#)

RefSeq Size: 1527 bp

RefSeq ORF: 459 bp

Locus ID: 8601

UniProt ID: [O76081](#)

Cytogenetics: 8q11.23

Protein Families: Druggable Genome

MW: 17.7 kDa

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 (4) lacks three 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 (d) is shorter and has a distinct N-terminus compared to 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.