

Product datasheet for **SC117814**

RGS20 (NM_003702) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGS20 (NM_003702) Human Untagged Clone
Tag:	Tag Free
Symbol:	RGS20
Synonyms:	g(z)GAP; gz-GAP; RGSZ1; ZGAP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_003702 edited ATGGGATCAGAGCGGATGGAGATGCGGAAGCGGCAGATGCCCGCCGCCCAGGACACACCA GGCGCCGCCCCAGGCCAGCCCGGAGCGGGGAGTCGCGGGTCCAACGCATGCTGCTTCTGC TGGTGCTGCTGTTGTAGCTGCTCGTGTCTCACTGTTAGAAACCAGGAAGATCAGAGGCC ACAATAGCTTCCCACGAACTCAGAGCAGATCTTCCAACCTGGAAGAAAGCCCTGCTCCT ACTCTGGAAGAAGTCAACGCCTGGGCTCAGTCATTTGACAAATTAATGGTCACTCCAGCA GGAAGGAATGCATTCCGTGAATTCCTCCGAACAGAATTCAGTGAGGAAAAATGCTCTTC TGGATGGCCTGTGAGGAAGTAAAAAGGAAGCTAATAAAACATTATTGAAGAGAAAGCA AGGATAATCTATGAAGACTACATTTCTATACTTTCTCCTAAGGAGGTGAGCTTAGACTCC CGGGTGAGAGAAGTGATCAACAGAAACATGGTGGAGCCATCCCAACACATATTGATGAT GCTCAACTTCAGATTTACACCCTGATGCACAGAGACTCATATCCTCGATTGAACTCT GCTGTCTATAAGGACTTGCTTCAGTCCTTATCGGAGAAATCTATTGAAGCATAG



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003702 unedited TCAGAATATTTGTATACGAACTCACTATAGGGCGGCCGCGATTCCGGCACGAGGAGAAAT GACGTGATGTTATTTTTGTGTCAGGTCAGTTTCCAGCTTCAGCTTAGCCCTCCGGGCTCC AGGGAAC TAACCCCGGGCCCCACCGGGTCCCCTCCGAAAGGGACGCTGCGGGCTACGG GGACACGGGTGCTGCGAGTCCGGAGAGCTGGGCGGCTGGGTTCCCCCTCCCGTGCCCC CTGGTCTACTCCTTTCCCGGACTCCGGAGTCCCTGGAGAAGGGGACGCGGAGGGCGACT GCCGAGGGTCTCAGCGGGATCTGGAGTCAGGGCAGATGGGATCAGAGCGGATGGAGATGC GGAAGCGGCAGATGCCCGCCGCCAGGACACACCAGGCGCCGCCAGGCCAGCCCGGAG CGGGGAGTCGCGGGTCCAACGCATGCTGCTTCTGCTGGTCTGCTGTTGTAGCTGCTCGT GTCTCACTGTTAGAAACCAGGAAGATCAGAGGCCACAATAGCTTCCCACGAACTCAGAG CAGATCTTCAAACCTGGGAAGAAAGCCCTGCTCCTACTCTGGAAGAAGTCAACGCCTGGG CTCAGTCAATTTGACAAATTAATGGTCACTCCAGCAGGAAGGAATGCATTCCTGTAATTCC TCCGAACAGAATTCAGTGAGGAAAATATGCTCTTCTGGATGGCCTGTGAGGAACTGAAAA AGGAAGCTAATAAAAACATTATTGAAGAGAAAGCAGGGGATATCTATGAAGACTACATTT CTATACTTCTCCTAAAGAGGTGAGCCTAGACTCCCGGGTGAGAGAAGTGATCAACAGAA CATGGTGGAGCCATCCCACACATATTGATGATGCTCAACTTCAGATTTACACCCCTGAGC ACAGAGACTCATATNCTCGATTCATGACTCTGCTGTCTATAGGACTTGCTNCAGTCCCT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_003702 unedited CGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGGAGATAAAAATCCTTGCTTT ATTTCTTTAAAGAATGAAAATGCCCATATTTCTTTCAGTAATAAAAATGGAAATATGCTT ATTTGACAGTTTTGTTGTGAACATGACCAAGTTATGAATTTAAAAATTCATTCTTTAGGT TGGCAAATCTGATAATAACAGTAACTCTTTTCAACAAAAGAATTTTCTAAGCACTGCTG CTGTTACCAGACACTTGAGACTGATCCACTTCAGAGCACAGTGCTTCCATTAACCATGT AGACATCCACACGCACACATATGTCTCCATACATACATACATACTGTAAGATCAAG TAGAATGCTATTTTTACATGTAGTGGTCACATCTTTTATGAAGTGTGAATTTGGGTCCTG CAATGGCACTGGTAAGTGACGTATTCAAACCGAGCTTGCTGGACAGAAGATGTCGTTGAG AAACACCTGAATGCTTTTTCTTTGAGGGGAGAGTAATCAGTTACCAAACCTCATGCAAAAT AAAAGTGGTCCCTTTGCTCTGGTGGATGTACCTGCTCCGGGCAGCAGGGAGCCTCTGT GTAGCCTTGCCACTGACAACATGCTACTGTTATTGTAATGCAAAATACGCTATCTTTCT ACAACAGCCATATCCCTTTATTTTTTTTTTTTTTCAAAGTATCACTAAAGGTGGCTGCAGTT TACATGGTGAATATATAGCAGTCTGTTGAAGGAATCATCTGTTATTAGAATAGCCTGAGT ATTACTCCAGCAGAAGAATGCTACACCTCTAAATTCCTGCTANGTGTAGCCCATGA AATNCTTNTATTTTATTAATAATAAATATATTTGAAAAATCCTATGCTTCAATAGNA TTCTCCGATAGGACTGAAAGCAGTCTTATGACAGCAGAGTCATGATCGAGG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_003702
Insert Size:	2000 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).

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_003702.1](#), [NP_003693.1](#)

RefSeq Size: 1583 bp

RefSeq ORF: 654 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]

Transcript Variant: This variant (2) differs in the 5' UTR and 5' coding region compared to variant 1. The resulting isoform (b) has a shorter and 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.