

Product datasheet for **SC120407**

RGS18 (NM_130782) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGS18 (NM_130782) Human Untagged Clone
Tag:	Tag Free
Symbol:	RGS18
Synonyms:	RGS13
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_130782, the custom clone sequence may differ by one or more nucleotides

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ATGGAACAACATTGCTTTTCTTTCTCAAATAAATATGTGTGAATCAAAGAAAAAAGCTTTTTCAGT
TAATACATGGTTCAGGAAAAGAAGAAACAAGCAAAGAAGCCAAAATCAGAGCTAAGGAAAAAGAAATAG
ACTAAGTCTTCTGTGCAGAAACCTGAGTTTCATGAAGACACCCGCTCCAGTAGATCTGGGCACTTGCC
AAAGAAACAAGAGTCTCCCTGAAGAGGCAGTGAATGGGGTGAATCATTGACAACTGCTTTCCATA
GAGATGGACTAGAGGCTTTTACCAGATTCTTAAAAGTGAATTCAGTGAAGAAAAATTGAAATTTGGAT
AGCCTGTGAAGATTTCAAGAAAAGCAAGGACCTCAACAAATTCACCTTAAAGCAAAGCAATATATGAG
AAATTTATACAGACTGATGCCCCAAAAGAGTTAACCTTGATTTTACACAAAAGAGTCATTACAAACA
GCATCACTCAACCTACCCTCCACAGTTTGTGCTGCACAAAGCAGAGTGTATCAGCTCATGGAACAAGA
CAGTTATACAGTTTTCTGAAATCTGACATCTATTTAGACTTGATGGAAGGAAGACCTCAGAGACCAACA
AATCTTAGGAGACGATCACGCTCATTTACCTGCAATGAATCCAAGATGTACAATCAGATGTTGCCATTT
GGTTATAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_130782 unedited CAAATTTTGTAAATACGACTCACTATAGGGCGGCCGCAAATTCGCACCANAAGAAACGCA GCTCTTGACTTCTTTTTTGTAAACACTACTGTAAGAGTTGTGATAACTTTTTATTCTACT ATGTATATGTATGGAATAGTATTAATAAATGAAGTGGGAAGGATGTAATAAATTAGACA TCTCTTCATTTTAGAGAGAAGATGGAAACAACATTGCTTTTCTTTCTCAAATAAATATG TGTGAATCAAAAAGAAAAAATTTTTTCAAGTTAATACATGGTTTCAGGAAAAGAAGAAACA AGCAAAGAAGCCAAAATCAGAGCTAAGGAAAAAGAAAATAGACTAAGTCTTCTTGTGCAG AAACCTGAGTTTCATGAAGACACCCGCTCCAGTAGATCTGGGCACTTGGCCAAAGAAACA AGAGTCTCCCCTGAAGAGGCAGTGAAATGGGGTGAATCATTTGACAAAAGTCTTCCCCT AGAGATGGACTAGAGGCTTTTACCAGATTTCTTAAAACTGAATTCAGTGAAGAAAATATT GAATTTTGGATAGCCTGTGAAGATTTCAAGAAAAGCAAGGGACCTCAACAAATTCACCTT AAAGCAAAAGCAATATATGAGAAATTTATACAGACTGATGCCCCAAAAGAGGTTAACCTT GATTTTACACAAAAGAAGTCATTACAAACAGCATCACTCAACCTACCCTCCACAGTTTT GATGCTGCACAAAGCAGAGTGTATCAGCTCATGGAACAAGACAGTTATACAGTTTTCTG AAATCTGACATCTATTTAGACTTGATGGAATTTCTTCACTTCATTATATGCAAGTTTCA ATATTANGTCTAAGTGAAGTTTAAAGGGTACTGATGACTTACAATATGGGCTCTGATGGGC ATACTCATTNGAGTCCTTCCATTGACCTATTTACTGGTAAAATTAAGTAAAATCTGGGC TCATCTTTAAGCTTACTATAAGATNTN
Restriction Sites:	NotI-NotI
ACCN:	NM_130782
Insert Size:	2650 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:	<ol style="list-style-type: none"> 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_130782.2 , NP_570138.1
RefSeq Size:	2158 bp
RefSeq ORF:	708 bp
Locus ID:	64407
UniProt ID:	Q9NS28
Cytogenetics:	1q31.2
Domains:	RGS

Gene Summary:

This gene encodes a member of the regulator of G-protein signaling family. This protein contains a conserved, 120 amino acid motif called the RGS domain. The protein attenuates the signaling activity of G-proteins by binding to activated, GTP-bound G alpha subunits and acting as a GTPase activating protein (GAP), increasing the rate of conversion of the GTP to GDP. This hydrolysis allows the G alpha subunits to bind G beta/gamma subunit heterodimers, forming inactive G-protein heterotrimers, thereby terminating the signal. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized. [provided by RefSeq, Jul 2008]