

Product datasheet for SC115427

RGS17 (NM_012419) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGS17 (NM_012419) Human Untagged Clone
Tag:	Tag Free
Symbol:	RGS17
Synonyms:	hRGS17; RGS-17; RGSZ2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115427 sequence for NM_012419 edited (data generated by NextGen Sequencing) <pre> ATGCGAAAAAGGCAGCAGTCCCAAAATGAAGGAACACCTGCCGTGTCTCAAGCTCCTGGA AACCAGAGGCCCAACAACACCTGTTGCTTTTGTGGTGCTGTTGTTGCAGCTGCTCCTGC CTCACTGTGAGGAATGAAGAAAGAGGGGAAAATGCGGGAAGACCCACACACTACAAAA ATGGAGAGTATCCAGGTCTAGAGGAATGCCAAAACCCACTGCAGAGGAAGTCTTGTC TGGTCTCAAAATTTTGACAAGATGATGAAGGCCCCAGCAGGAAGAAACCTTTTCAGAGAG TTCCTCCGAACAGAATACAGTGAAGAGAACCTACTTTTCTGGCTTGCTTGTAAGACTTA AAGAAGGAGCAGAACAAAAAGTAATTGAAGAAAAGGCTAGGATGATATATGAAGATTAC ATTTCTATACTATCACCAAAAGAGGTCAGTCTTGATTCTCGAGTTAGAGAGGTGATCAAT AGAAATCTGTTGGATCCCAATCCTCACATGTATGAAGATGCCCAACTTCAGATATATACT TTAATGCACAGAGATTCTTTTCCAAGGTTTTTGAAGTCTCAAATTTATAAGTCATTTGTT GAAAGTACTGCTGGCTCTTCTTCTGAATCTTAA </pre>

Clone variation with respect to NM_012419.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_012419 unedited
 AATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGCTCTCCCTCTCTCCTCG
 CCCGCTGGGTGCTGAAGTTGGGCGGATGGCAGCAAACCGCTCCGCTAGAGGACCGAGCC
 GCCCAGCCCCGCTCCCCCGGACCCATCGGCGCGCTGCCACACCTCCAGGCGACCGGCCA
 ACTGGGTCTGAAGTAGCTGAAATGCGAAAAAGGCAGCAGTCCCAAAATGAAGGAACACC
 TGCCGTGTCTCAAGCTCCTGGAAACCAGAGGCCCAACAACACCTGTTGCTTTTGTGGTG
 CTGTTGTTGCAGCTGCTCCTGCCTCACTGTGAGGAATGAAGAAAGAGGGGAAAATGCGGG
 AAGACCCACACACTACAAAAATGGAGAGTATCCAGGTCTAGAGGAATGCCAAAACCC
 CACTGCAGAGGAAGTCTTGTCTGGTCTCAAAATTTTGACAAGATGATGAAGGCCCCAGC
 AGGAAGAAACCTTTTCAGAGAGTTCTCCGAACAGAATACAGTGAAGAGAACCTACTTTT
 CTGGCTTGCTTGTGAAGACTTAAAGAAGGAGCAGAACAAAAAGTAATTGAAGAAAAGGC
 TAGGATGATATGAAGATTACATTTCTATACTATCACCAAAAGAGGTCAGTCTTGATTC
 TCGAGTTAGAGAGGTGATCAATAGAAATCTGTTGGATCCCAATCCTCACATGTATGAAGA
 TGCCCAACTTCAGATATATACTTTAATGCACAGAGATTCTTTTCAAGGTTTTTGACTCT
 CAATTTATAGTCATTTGTTGAAGTACTGCTGGCTCCTCTTCTGAAATCTATGGTCATTTA
 AAACATCATTNTGGAGGCTGAGAGGGAANATAAAGTAGTAATACATCAGAACTGAGTCCT
 GGAAACTACAGTTACATTCTCAGCTCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_012419 unedited
 TATGGCCCGGCGCCGCATNCTAGGATCGAGTTTTTTTTTTTTTTTTTTGGTTTTTGCTT
 TTAGCATAGTAACTCTCCTGTAATGAAATGCCACAGTTTTGGCAGTGAACAACCAGAG
 GAATCCCCATTAGGATTTTCCAACAAACAGAGATAAATAGCTCTTTTTCATGTACAGAAA
 TATTGGCTTCAAAATTAGTGTACTAAACACAGTATATAGAATGTTGAATACCATTGTTAC
 ATAGTAAAAATTGCTTTTTTCTGTCTTAGATTATGTTAAAAAATGCAAAACCATGGCCGA
 TTTTTTTGGCAATTATTTCTTAAGACCATATTGCACAAAAGTCCTTAAATACAGATATAA
 GTTATGCTACTGGATTAAATATTACAACAACTATGTGGCAATGAAGCATTTTACTTTGCT
 ACATGCAGTCTCTGGAGATACACGAGGAGACTGTTTCATAGGACTACAAATACACTTTGCT
 TGCAAGTAGAATGAGTCTTGAATAAAACAAACAATTTGGCAATTCATTGTTTTGTGGT
 ATTTTCTCCAACTTAACCATGGAAAACCTTGATAAAATGGAGACAAAGACCATAACGG
 TTGTGTTTTACAGTAGCCTGAGGAATGCTAACTGTAGTTCTCCAGGAAGTCAAGTTTCT
 GATGTTATTTAACTACTTTTATTTCCCATCTCAGCCCTCCAAAATGATTGTTTTTAAATG
 AACATTAAGATTGAGAAGAAGAGCCAGCAGTACTTTCAACAAATGACTTATAAATTTGAG
 AGTTCAAAAACCTTGGGAAAGAATCTCTGTGCATTAAAGTATATCTGAAGTTGGGCAT
 CTTCATACATGTGAAGAATGGGACCAACAGATTCTATTGATCACCTCTTAACTCGAGATC
 AAN

Restriction Sites:

ECoRI-NOT

ACCN:

NM_012419

Insert Size:

1470 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:	<u>NM_012419.4, NP_036551.3</u>
RefSeq Size:	1472 bp
RefSeq ORF:	633 bp
Locus ID:	26575
UniProt ID:	<u>Q9UGC6</u>
Cytogenetics:	6q25.2
Domains:	RGS
Protein Families:	Druggable Genome
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 and a cysteine-rich region. 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. [provided by RefSeq, Jul 2008]