

Product datasheet for **SC100889**

RGS22 (NM_015668) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGS22 (NM_015668) Human Untagged Clone
Tag:	Tag Free
Symbol:	RGS22
Synonyms:	CT145; PRTD-NY2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_015668, the custom clone sequence may differ by one or more nucleotides

ATGCCCGAGAAGAGGCTACCGCGGAGCCACCACTATTACAGAAGAAGATTTGAAGATTCTCTGGCAA
CAGATGATTTCTGTAGACTACTTTAATGAATTCCTAAGCCTTCCAACCTTTTCAGAGGCAATTAGATT
TAATGCAGATTATGGAGTTTTTGAAGTAGCTAATGATGCTCCACAATTTCTGGAAAAACAACTGAAAAA
ATTCTACAAAACCAGCAACCTCGAAATCCCATTTATGATGTTGTAAGGAAAGGAAAGAATGAGGTAAAC
CTGTTCAAATGAATGCCCCGATGAAGATGAGACCATTAAATGTCAACTACAATATTATGTGTCTCAGTCG
TGAAGAAGGTATTAAGTGGATCAAAAAAGAAAGACTTCCAGCATTCTGGAAAGTGATTGTTACTTTGAA
TACAGTTAGCCAAATGGTCTCACAAGTAAGATGGAGCAAGTCCGGCATGAATTTACAGTAGGATCAA
ATTTTTCTCCCTGGATCGTGAAAAACCACCCAGTCTACCACCTCTGCCACTGAAGAAGATAATCTTGT
AATTATGAAAAAGTTCTATGTATCACTTGGTGAGGCTTCTATACTCAAAACAAAAGATTGTTTTGCATTA
GCAAAACAAAAGTCAGCAACAGTATCAACCTTTTCGTTACCCTGTTGTGTACCCTACAACAACTTAAAT
CACCAGCTATTTTCATCTGTTTCTGAGAATTTTATCTTTGATGATGGAGTTCACCTAGGACAAAAAGGA
CCCATCTAAAACCAACAAATTGATTTCTGAATTTGAAGAAGAAGGAGAAGAAGAAGAGGTGTCTGTA
TCTCTACAAGACACTCCTTCTCAAGCTCTTCTGAGAGTATACCTTGAAAAGAAACAGGATGTTGATGAAA
GCCTGACAATGCATTTCTCAACATGTGAAGAATTTTAAAGCTCCTATATATACTTTATTTTGAAGGAGC
AATTCAGCAAATTGTTGGAAAGCCAGTTGGAGAAACCCAGACTATATAAACTTCAACAATATAACAAAA
GTGTCAATTTGATGATTGTTTTGAGTCTATTCTGGCAAGAATTTTTTAAAGTGAATTAGTTCAAACTACAA
AGGAGAGGTGAGAAGAGATAGAACAACAGTTTAAAGTTCAAAGAATGAGAGCGCTGGACCAGAGAGCAG
GGCGGACTGGTGTATTTCTCATAGGACTTATGACATTGGCAATAGAAAGGAGTTTGAAGATTTAAGAAA
TTTATAAAAGGTACATTGGGAGAGAGATATTGGTGGCTATGGATGGATATTGAGAGGTTAAAGTTCTTA
AGGATCCTGGAAGACATCAAGACATCTTGAGAAGATGAAAAATGCTATCTAGTGAGCAATGGAGATTA
CTACCTTTCTGCAGAAATCTTATCAAAATTTAACTGTTAGATGGATCACAGTGAATGAAGAGCATTTA
AGAAATATTCAGTCTGAAGTTTTAAACCTTTACTTCTGTATTGGGCACCAAGATTCTGTGTTACTCATT
CAGCCTCAACAAAATATGCTAGTCTGAAGTAACTGAAATCTGGCACCTCCGTCAAGCAAAACCAAGGAAGGA



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TATTGACCCCTTTCCACAAATGGCAACCCTCTTGCCATTAAGACCCAAATCTTGCAATCCACAGATACCT
 GAGATCCAGAAAGAAGAATTTCAGCTTATCACAACCTCCTAAATCTCCCAATAATCACCTGAAGTAAAA
 CAGCAACTCAAAAGCCTTGAAGCGGGAGCTTTTGTATCCAGGTTCTTCTAAGGATGATGTGATTGAGAA
 AGGGTCAAAGTACATGTCAGAAAGCAGCAAGTCATTCATTTAACATCTTTACTGACATTTCTGAATGT
 CTCAGCCCCAGCTGGATAGAAGATACGCTTATACAGAAGAACCTAGGGTTAAACCGTGTCAGATGTTG
 GTGCCCTGGGAGGATCTGACATGGAAAAATTTGTGCAATCTTTGTATGTAGAAAAAGAGCTGGATTCTT
 CTTTACTAAATTTCTGCGAGCATTACGGGAACAAGTTGTGGAAGAACAGTGTGACTTTTGGTTTGACCTG
 CAGGCTTATCATCAGCTTTTCTACCAAGAAACACTTCAGCCTTTTAAAGTATGCAAGCAAGCGCAATATC
 TTTTGGCACATACGTTGCTCCTCTGCCACTCTTGACATTGGACTCCAACAGGAAAAAGAAAAAGAAAT
 TTATATGAAAATACAGCCACCATTGGAAGACCTTTTGGACACAGCAGAGGAATATATCCTCTCCTCCTT
 CTTGAGCCATGGACAAAGATGGTAAATCGGACCAAAATGCTTATAAAAAGGTGGAGCTGGTGAAGAAA
 CTCGACAGTTAGACTCCACATACTTCAGAAAGCTACAGGCTTGCATAAGAGACATTTTCAAGAAAGC
 TGAGGACACCACTTGGAATTTGGAAGTGGCATTATCACTCTCTAACGTCTCTAAACGAACAGAATAT
 TGGGATAATGTTCTGCAGAATACAAGCATTTTAAAGTTAGTGATCTGCTTAACAACAACTGGAGTTTG
 AACATTTCCGTGAGTTTCTTGAGACTCATTCTCAAGCATGGATCTTATGTGCTGGACAGACATTGAGCA
 GTTCCGGAGAATAACTTACAGAGATCGAAATCAAAGGAAGGCAAAATCTATATACATTAAAAACAAATAC
 CTTAATAAAAAATATTTCTTGGACCCAACAGTCCAGCTTCTCTGTATCAGCAGAACAGGTAATGCATT
 TAAGTGGTGGCTGGGGGAAGATTCTTCATGAGCAGCTTGATGCACCTGTTCTAGTTGAAATCCAGAAGCA
 TGTGCAAAATAGGCTAGAAAATGTATGGCTGCCATTGTTTCTGCAAGTGAACAGTTTGCAGCACGTCAG
 AAGATAAAGGTACAGATGAAAGACATAGCAGAAGAGCTTACTACAGAAGGCTGAAAAGAAAATCGGGG
 TCTGGAAGCCTGTGGAGAGTAAGTGGATCTCTTCATCTTGTAATCATTGCTTTTCGAAAGCATTATT
 GAATCCAGTTACTTCAAGACAATTTCAACGTTTGTGGCTCTAAAAGGAGATTTATTGAAAAATGGTTTA
 CTCTTTTGGCAAGAAGTACAAAAATATAAGGACTTGTGCCATTCTCATTGTGATGAGTCTGTCTATCCAGA
 AGAAGATTACAACCTATTATCAACTGCTTTATTAATTCCAGTATTCCACCAGCTTTACAAATTGACATTCC
 AGTAGAGCAAGCCAGAAGATTATTGAACACCGGAAGGAGTTAGGACCATATGTATTTAGAGAGGCACAG
 ATGACAATTTTGGGTTCTGTTTAAATCTGGCCTCAGTTCTGTGAGTTTAGGAAGAATTTAACAGATG
 AAAATATTATGAGTGTTTATAGAGAAGACAAGAATATAATAAGCAGAAAAAAAATTTGGCAGTCTAGA
 AGACGAAAAATCTGAAAGGATGGAATCAAACAATATGCAAACTTTCAGTGCCTGCTATCAAACTGCT
 TTAAGTCACTGATTCCTTCTAGGCTCCAACCATATGGCCGACAGCCAACCTGGTCTACTCAAAGTATA
 TAGAAGCCTTAGAACAGGAGAGAATTCTTCTTAAGATCCAAGAAGAACTAGAAAAAAGTTGTTTGCAGG
 CTTGCAACCTCTCACAATTTTAAAGCTAGCTCTTCAACTATGTCTTTGAAAAAGAAATATGTCTGCCAC
 AGCAGCCAGAAGTGA

**5' Read Nucleotide
Sequence:**

>OriGene 5' read for NM_015668 unedited
 TGTATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGGGTAGCTCCGGAGCCCGCG
 CGCCGTCGCCGCTCGCTCAGGCCCTGACCCGCGCTGGACCCGCGCGCTAGGGCCCTGAC
 GGCCCGCGCGGGCTCCAGGCGCGGGCAGCGGGGACGGCATGCCGAGAAGAGGCTCACCG
 CGGAGCCACCACTATTACAGAAGAAGAAATTTGAAGATTCTCTGGCAACAGATGATTTCC
 TTGTAGACTACTTTAATGAATTCCTAAGCCTTCCAACCTTTTCAGAGGCAATTAGATTTA
 ATGCAGATTATGGAGTTTTTGAAGTAGCTAATGATGCTCCACAATTTCTGGAAAAACAAC
 TGAAAAAATTTACAAAACCAGCAACCTCGAAATCCCATTTATGATGTTGTAAGGAAAG
 GAAAGAATGAGGTTAAACCTGTTCAAATGAATGCCCCGATGAAGATGAGACCATTAATG
 TCAACTACAATATTATGTGCTCAGTCGTGAAGAAGGTANTTAAGTGGATCAAAAAAGAA
 AGACTTCCAGCATTCTGGAAAGTATTGTTACTTTGAATACAGGTTAGCCAAATTTGGTC
 TCACAAGTAAGATGGAGCAAGTCCGGCATGAATTTACAGTAGGATCAAAATTTTCTCCC
 TGGGATCGTGAAAAAACCCAGTCTACCACTCCTGCCACTGAAGAAGATAATCTTGT
 AATATGAAAAAGTTCTATGTATCACTTGGGTGAGGCTTCTATACTCAACAAAAGGATT
 GTTTTGCATTAGCAAAACAAGTCAGCAACAGTATCACCTTTTCCGTACCCTTGGTGGGGA
 CCCTACCACAACCTAAATCACAGCTATTCATCTGGTTCTGAGAATTATCTTGTGGAGGG
 GGA

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_015668 unedited <pre> GACCGCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTAAAAACAAGCCA AATTTTCTTTATTTATTTCCACCTGGAAAATCCAGAATCAAACCTTTATTTAGATGTTAG GCTTGCTCTGATACAGACCTTCAAAAAACAAATCACTGGAGCTTCTCATGTCCAGCAGAA TCTGGTTTAAAGAATTCCTTGAACCTATCAGCAGCAGGATGTAACATTCACAAGAATGC TGTCACCTCTGGCTGCTGTGGGCAGACATATTCTTTTCAAAGACATAGTTGAAGAGCTA GCCTTAAATTTGTGAGAGGTTGCAAGCCTGCAACAACCTTTTTTCTAGTTCTTCTTGG ATCTTAAGAAGAATTCTCTCCTGTTCTAAGGCTTCTATATACTTTGAGTAGCACCAGGTT GGCTGTGCGCCATATGGTTGGAGGCTAGGAAGGAATCACTGAGTAAAGCAGTTTTGATA GCAGGCACTGAAGTATTTGCATATTGTTTGATTCCATCCTGTGCCTCTCTAAATACATAT GGTCTAACTCCTCCGGTGTTCAATAATCTTCTGGGGCTGCTCTACTGGGATGTCAATT TGTAAGCTGGTGAATACTGGAATTAATAAGCAGGTGATAATAGTGAACCTCTTCTGG AGACAGACTCCTCCCATGGGAATGCCAAGTCCCTATATTTTGAAGTCTTGCCAAAAGA GTAAACACTTTCCAATAATCTCCTTTTAGAGCCCAAAACGTTGAAATGGCTTGGAGGACT GGATTCAATGGCTTTGCAAAAGGCATGTTTTTCCAGAGGAAAGGATCCCTTATTTTCC CGGGTTTCCAAACCGATTTTTTTTACCCTTTTGGGAAGGACCCTTTTGGTGGCTTAAAT TGGCCTTTTATTGTGCGGGGCGCAACTGTGACTTGGAGAAACCAAGGGGCCAAGTTTTT AGCCTTTTGCCG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_015668
Insert Size:	3890 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
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_015668.2, NP_056483.2</u>

RefSeq Size: 4310 bp

RefSeq ORF: 3792 bp

Locus ID: 26166

UniProt ID: [Q8NE09](#)

Cytogenetics: 8q22.2

Domains: RGS

Gene Summary: Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). 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.