

Product datasheet for **SC337842**

RGS22 (NM_001286693) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGS22 (NM_001286693) Human Untagged Clone
Tag:	Tag Free
Symbol:	RGS22
Synonyms:	CT145; PRTD-NY2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001286693, the custom clone sequence may differ by one or more nucleotides

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ATGAATGCCCCGATGAAGATGAGACCATTAATGTCAACTACAATATTATGGCTTCCTATACTCAAACAA
AAGATTGGTTTGATTAGCAAAACAAAGTCAGCAAAACAGTATCAACCTTTTCGTTACCTGTTGTGTACC
CTACAACAACTTAAATCACCAGCTATTTTCATCTGTTTCTGAGAATTTTATCTTTGATGATGGAGTTCAC
CCTAGGACAAAAAGGACCCATCTAAAACCAACAAATTGATTTCTGAATTTGAAGAAGAAGAGAGAAG
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ACAGGATGTTGATGAAAGCCTGACAATGCATTTCTCAACATGTGAAGAATTTTAAAGCTCCTATATATAC
TTTATTTTGAGAGGAGCAATTCAGCAAAATGTTGGAAAGCCAGTTGGAGAAACCCAGACTATATAAAT
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GCTGGACCAGAGAGCAGGGCGGACTGGTGTATTTCTCATAGGACTTATGACATTGGCAATAGAAAGGAGT
TTGAAAGATTTAAGAAATTTATAAAGGTACATTGGGAGAGAGATATTGGTGGCTATGGATGGATATTGA
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AATAGAGCTGGATTCTTCTTTACTAAATCTGCGAGCATTAGGGAACAAGTTGTGAAGAACAGTGTGT
ACTTTTGGTTGACCTGCAGGCTTATCATCAGCTTTTCTACCAAGAAACACTTCAGCCTTTTAAAGTATG
  
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CAAGCAAGCGCAATATCTTTTGGCCACATACGTTGCTCCTTCTGCCACTCTTGACATTGGACTCCAACAG
 GAAAAGAAAAAGAAATTTATATGAAAATACAGCCACCATTGGAAGACCTTTTGACACAGCAGAGGAAT
 ATATCCTTCTCCTCCTTCTTGAGCCATGGACAAAGATGGTAAATCGGACCAAATGCTTATAAAAGGT
 GGAGCTGGTGGAGAAACTCGACAGTTAGACTCCACATACTTCAGAAAGCTACAGGCTTTGCATAAGAG
 ACATTTTCCAAGAAAGCTGAGGACCACTTGTGAAATTGAAGTGGCATTATCACTCTTAACGTCT
 CTAACGAACAGAATATTGGGATAATGTTCTGCAGAATACAAGCATTTAAGTTTAGTGATCTGCTTAA
 CAACAACTGGAGTTTGAACATTTCCGTCAGTTTCTTGAGACTCATTCTCAAGCATGGATCTTATGTGC
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 GAACCAGGTAATGCATTTAAGTGGTGGCTGGGGGAAGATTCTTCATGAGCAGCTTGATGCACCTGTTCTA
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 AAATTGGCAGTCCTAGAAGACGAAAAATCTGGAAGGATGGAATCAAACAATATGCAAACTTCACTGTC
 CTGCTATCAAACTGCTTACTCAGTGATTCTTCCTAGGCCTCCAACCATATGGCCGACAGCCAACCTG
 GTGCTACTCAAAGTATATAGAAGCCTTAGAACAGGAGAGAATTCTTCTTAAGATCCAAGAAGAACTAGAA
 AAAAAGTTGTTGTCAGGCTTGCAACCTCTCACAATTTAAGGCTAGCTCTCAACTATGCTTTGAAAA
 AGAATATGCTGCCCACAGCAGCCAGAAGTGA

Restriction Sites: Sgfl-MluI

ACCN: NM_001286693

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_001286693.1, NP_001273622.1

RefSeq Size: 4169 bp

RefSeq ORF: 3252 bp

Locus ID: 26166

Cytogenetics: 8q22.2

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 (3) differs in the 5' UTR and has multiple coding region differences, compared to variant 1. These differences cause translation initiation at a downstream AUG and result in an isoform (2) with a shorter N-terminus, compared to isoform 1.