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Product datasheet for SC318573

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:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC318573 representing NM_015668. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCCGAGAAGAGGCTCACCGCGGAGCCACCAACTATTACAGAAGAAGAATTTGAAGATTCTCTGGCA
ACAGATGATTTCCTTGTAGACTACTTTAATGAATTCCTAAGCCTTCCAACCTTTTCAGAGGCAATTAGA
TTTAATGCAGATTATGGAGTTTTTGAAGTAGCTAATGATGCTCCACAATTTCTGGAAAAACAACTGAAA
AAAATTCTACAAAACCAGCAACCTCGAAATCCCATTTATGATGTTGTAAGGAAAGGAAAGAATGAGGTT
AAACCTGTTCAAATGAATGCCCCCGATGAAGATGAGACCATTAATGTCAACTACAATATTATGTGTCTC
AGTCGTGAAGAAGGTATTAAGTGGATCAAAAAAGAAAGACTTCCAGCATTTCTGGAAAGTGATTGTTAC
TTTGAATACAGGTTAGCCAAATTGGTCTCACAAGTAAGATGGAGCAAGTCCGGCATGAATTTCACAGTA
GGATCAAATTTTTCTCCCTGGATCGTGAAAAAACCACCCAGTCTACCACCTCCTGCCACTGAAGAAGAT
AATCTTGTAATTATGAAAAAGTTCTATGTATCACTTGGTGAGGCTTCCTATACTCAAACAAAAGATTGG
TTTGCATTAGCAAAACAAAGTCAGCAAACAGTATCAACCTTTTCGTTACCCTGTTGTGTACCCTACAAC
AAACTTAAATCACCAGCTATTTCATCTGTTTCTGAGAATTTTATCTTTGATGATGGAGTTCACCCTAGG
ACAAAAAAGGACCCATCTAAAACCAACAAATTGATTTCTGAATTTGAAGAAGAAGAAGGAGAAGAAGAA
GAGGTGTCTGTATCTCTACAAGACACTCCTTCTCAAGCTCTTCTGAGAGTATACCTTGAAAAGAAACAG
GATGTTGATGAAAGCCTGACAATGCATTTCTCAACATGTGAAGAATTTTTAAGCTCCTATATATACTTT
ATTTTGAGAGGAGCAATTCAGCAAATTGTTGGAAAGCCAGTTGGAGAAACCCCAGACTATATAAACTTC
AACAATATAACAAAAGTGTCATTTGATGATTGTTTTGAGTCTATTCATGGCAAGAATTTTTTAAGTGAA
TTAGTTCAAACTACAAAGGAGAGGTCAGAAGAGATAGAACAAACAAGTTTAAGTTCAAAGAATGAGAGC
GCTGGACCAGAGAGCAGGGCGGACTGGTGTATTTCTCATAGGACTTATGACATTGGCAATAGAAAGGAG
TTTGAAAGATTTAAGAAATTTATAAAAGGTACATTGGGAGAGAGATATTGGTGGCTATGGATGGATATT
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CTAGTGAGCAATGGAGATTACTACCTTTCTGCAGAAATCTTATCAAAATTTAAACTGTTAGATGGATCA
CAGTGGAATGAAGAGCATTTAAGAAATATTCAGTCTGAAGTTTTAAAACCTTTACTTCTGTATTGGGCA

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CCAAGATTCTGTGTTACTCATTCAGCCTCAACAAAATATGCTAGTGCTGAACTGAAATTCTGGCACCTC
CGTCAAGCAAAACCAAGGAAGGATATTGACCCTTTTCCACAAATGGCAACCCTCTTGCCATTAAGACCC
AAATCTTGCATTCCACAGATACCTGAGATCCAGAAAGAAGAATTCAGCTTATCACAACCTCCTAAATCT
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TCTTCTAAGGATGATGTGATTGAGAAAGGGTCAAAGTACATGTCAGAAAGCAGCAAAGTCATTCATTTA
ACATCTTTTACTGACATTTCTGAATGTCTCAAGCCCCAGCTGGATAGAAGATACGCTTATACAGAAGAA
CCTAGGGTTAAAACCGTGTCAGATGTTGGTGCCTTGGGAGGATCTGACATGGAAAATTTGTTGCAATCT
TTGTATGTAGAAAATAGAGCTGGATTCTTCTTTACTAAATTCTGCGAGCATTCAGGGAACAAGTTGTGG
AAGAACAGTGTGTACTTTTGGTTTGACCTGCAGGCTTATCATCAGCTTTTCTACCAAGAAACACTTCAG
CCTTTTAAAGTATGCAAGCAAGCGCAATATCTTTTTGCCACATACGTTGCTCCTTCTGCCACTCTTGAC
ATTGGACTCCAACAGGAAAAGAAAAAAGAAATTTATATGAAAATACAGCCACCATTTGAAGACCTTTTT
GACACAGCAGAGGAATATATCCTTCTCCTCCTTCTTGAGCCATGGACAAAGATGGTAAAATCGGACCAA
ATTGCTTATAAAAAGGTGGAGCTGGTGGAAGAAACTCGACAGTTAGACTCCACATACTTCAGAAAGCTA
CAGGCTTTGCATAAAGAGACATTTTCCAAGAAAGCTGAGGACACCACTTGTGAAATTGGAACTGGCATT
TTATCACTCTCTAACGTCTCTAAACGAACAGAATATTGGGATAATGTTCCTGCAGAATACAAGCATTTT
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TCAAGCATGGATCTTATGTGCTGGACAGACATTGAGCAGTTCCGGAGAATAACTTACAGAGATCGAAAT
CAAAGGAAGGCAAAATCTATATACATTAAAAACAAATACCTTAATAAAAAATATTTCTTTGGACCCAAC
AGTCCAGCTTCTCTGTATCAGCAGAACCAGGTAATGCATTTAAGTGGTGGCTGGGGGAAGATTCTTCAT
GAGCAGCTTGATGCACCTGTTCTAGTTGAAATCCAGAAGCATGTGCAAAATAGGCTAGAAAATGTATGG
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GCAGAAGAGCTCTTACTACAGAAGGCTGAAAAGAAAATCGGGGTCTGGAAGCCTGTGGAGAGTAAGTGG
ATCTCTTCATCTTGTAAAATCATTGCTTTTCGCAAAGCATTATTGAATCCAGTTACTTCAAGACAATTT
CAACGTTTTGTGGCTCTAAAAGGAGATTTATTGGAAAATGGTTTACTCTTTTGGCAAGAAGTACAAAAA
TATAAGGACTTGTGCCATTCTCATTGTGATGAGTCTGTCATCCAGAAGAAGATTACAACTATTATCAAC
TGCTTTATTAATTCCAGTATTCCACCAGCTTTACAAATTGACATTCCAGTAGAGCAAGCCCAGAAGATT
ATTGAACACCGGAAGGAGTTAGGACCATATGTATTTAGAGAGGCACAGATGACAATTTTTGGGGTTCTG
TTTAAATTCTGGCCTCAGTTCTGTGAGTTTAGGAAGAATTTAACAGATGAAAATATTATGAGTGTTTTA
GAGAGAAGACAAGAATATAATAAGCAGAAAAAAAAAATTGGCAGTCCTAGAAGACGAAAAATCTGGAAAG
GATGGAATCAAACAATATGCAAATACTTCAGTGCCTGCTATCAAAACTGCTTTACTCAGTGATTCCTTC
CTAGGCCTCCAACCATATGGCCGACAGCCAACCTGGTGCTACTCAAAGTATATAGAAGCCTTAGAACAG
GAGAGAATTCTTCTTAAGATCCAAGAAGAACTAGAAAAAAAGTTGTTTGCAGGCTTGCAACCTCTCACA
AATTTTAAGGCTAGCTCTTCAACTATGTCTTTGAAAAAGAATATGTCTGCCCACAGCAGCCAGAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

ACCN: NM_015668

Insert Size: 3795 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
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_015668.4
RefSeq Size:	4310 bp
RefSeq ORF:	3795 bp
Locus ID:	26166
UniProt ID:	Q8NE09
Cytogenetics:	8q22.2
Domains:	RGS
MW:	147.2 kDa
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.