

Product datasheet for SC316920

RGS4 (NM_001102445) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGS4 (NM_001102445) Human Untagged Clone
Tag:	Tag Free
Symbol:	RGS4
Synonyms:	RGP4; SCZD9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC316920 representing NM_001102445. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGCATCGCC
ATGTATAATATGATGCTTCTAATCCAAAAGAGGAAAGGCATTGGGAGTCAGCTCCTAAGGGCTGGAGAG
GCAGAGGGAGACAGAGGAGCTGGTACTGCAGAGCGGTCGTCTGATTGGCTGGACGGTCGTAGCTGGGCT
ATAAAAGAGACCCCTACAGGCTTAGCAGGAAGACGCTCAGAGGATTCTGACAATATCTTTACCGGAGAA
GAGGCAAAGTACGCTCAAAGCCGAAGCCACAGCTCCTCCTGCCGATTTCTTTCTGCTTGCGAATTCC
AAGCTGTTAAATAAGATGTGCAAAGGGCTTGCAGGTCTGCCGGCTTCTTGCTTGAGGAGTGCAAAGAT
ATGAAACATCGGCTAGGTTTCTGCTGCAAAAATCTGATTCTGTGAACACAATTCTCCACAACAAG
AAGGACAAAGTGGTTATTTGCCAGAGAGTGAGCCAAGAGGAAGTCAAGAAATGGGCTGAATCACTGGAA
AACCTGATTAGTCATGAATGTGGGCTGGCAGCTTCAAAGCTTCTTGAAGTCTGAATATAGTGAGGAG
AATATTGACTTCTGGATCAGCTGTGAAGAGTACAAGAAAATCAAATCACCATCTAAACTAAGTCCCAAG
GCCAAAAGATCTATAATGAATTCATCTCAGTCCAGGCAACCAAGAGGTGAACCTGGATTCTTGCAAC
AGGGAAGAGACAAGCCGGAACATGCTAGAGCCTACAATAACCTGCTTTGATGAGGCCCAGAAGAAGATT
TTCAACCTGATGGAGAAGGATTCCTACCGCCGCTTCTCAAGTCTCGATTCTATCTTGATTGGTCAAC
CCGTCCAGCTGTGGGCAGAAAAGCAGAAAAGGAGCCAAGATTCAGCAGACTGTGCTTCCCTGGTCCCT
CAGTGTGCCTAA
ACGCGTACGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
Plasmid Map:	<input type="checkbox"/>
ACCN:	NM_001102445



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Insert Size:	909 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).
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:	<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_001102445.2
RefSeq Size:	3480 bp
RefSeq ORF:	909 bp
Locus ID:	5999
UniProt ID:	P49798
Cytogenetics:	1q23.3
Protein Families:	Druggable Genome
MW:	33.9 kDa
Gene Summary:	<p>Regulator of G protein signaling (RGS) family members are regulatory molecules that act as GTPase activating proteins (GAPs) for G alpha subunits of heterotrimeric G proteins. RGS proteins are able to deactivate G protein subunits of the Gi alpha, Go alpha and Gq alpha subtypes. They drive G proteins into their inactive GDP-bound forms. Regulator of G protein signaling 4 belongs to this family. All RGS proteins share a conserved 120-amino acid sequence termed the RGS domain. Regulator of G protein signaling 4 protein is 37% identical to RGS1 and 97% identical to rat Rgs4. This protein negatively regulate signaling upstream or at the level of the heterotrimeric G protein and is localized in the cytoplasm. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>