

Product datasheet for **SC310854**

RGS21 (NM_001039152) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGS21 (NM_001039152) Human Untagged Clone
Tag:	Tag Free
Symbol:	RGS21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC310854 representing NM_001039152. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**
 ATGCCAGTGAAATGCTGTTTCTACAGGTCACCAACTGCGGAAACAATGACATGGTCTGAAAATATGGAC
 ACGCTTTTAGCCAACCAAGCTGGTCTAGATGCTTTTCGAATATTCTAAAATCAGAGTTTAGTGAAGAA
 AATGTTGAGTTCTGGCTTGCTTGAAGACTTTAAGAAACGAAAAATGCAGACAAAATTGCTTCCAAA
 GCCAAGATGATTATTCTGAATTCATTGAAGCTGATGCACCTAAGAGATTAAACATTGACTTCGGTACC
 AGAGACCTCATCTCAAAGAATATTGCTGAACCAACACTCAAATGCTTTGATGAGGCTCAGAAATTAATC
 TATTGTCTCATGGCCAAGGATTCTTCCCTCGATTCTGAAGTCAGAGATTATAAAAACTGGTAAAT
 AGCCAACAGGTTCCAAATCATAAAAAATGGCTCCCTTTTTTGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001039152
Insert Size:	459 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.


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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:	<u>NM_001039152.3</u>
RefSeq Size:	1794 bp
RefSeq ORF:	459 bp
Locus ID:	431704
UniProt ID:	<u>Q2M5E4</u>
Cytogenetics:	1q31.2
MW:	17.7 kDa
Gene Summary:	Regulator of G protein signaling (RGS) proteins are regulatory and structural components of G protein-coupled receptor complexes. RGS proteins are GTPase-activating proteins for Gi (see GNAI1; MIM 139310) and Gq (see GNAQ; MIM 600998) class G-alpha proteins. They accelerate transit through the cycle of GTP binding and hydrolysis and thereby accelerate signaling kinetics and termination.[supplied by OMIM, Nov 2008]