

Product datasheet for **SC324464**

RGS14 (NM_006480) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGS14 (NM_006480) Human Untagged Clone
Tag:	Tag Free
Symbol:	RGS14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_006480.4
 GTAGTGAGCGGTGTTTCAGGATGTGAGGGCCCGCAGGAGCCGAGTCAGGCTCTCTCCACT
 GCCTGCCCCGCCACCGTGCAAGCTCTGGCCGGCGCTGCCACAGTCCCATGGTGGGCAGC
 CCCCAGCGGGGACCCCTGATCGGCAGCGCATGCCAGGGAAGCCCAAGCACCTGGGCG
 TCCCAACGGGCGCATGGTTCTGGCTGTGTCAGATGGAGAGCTGAGCAGCAGCACGGGGC
 CCCAGGGCCAGGGCGAGGGCCGGCAGCTCTCTCAGCATCCACAGCCTCCCCAGTGGTC
 CCAGAGCCCTTCCCAACCGAGGAGCAGCCTGTGGCCAGCTGGGCCCTGTCTTCGAGC
 GGCTGTTGCAGGACCCGCTGGCCCTGGCTTACTTCACTGAGTTCCTGAAGAAGGAGTTCA
 GCGCGAAAACGTGACTTCTGGAAGCCCTGCGAGCGCTTCCAGCAGATCCCGGCCAGCG
 ATACCCAGCAGCTAGCTCAGGAGGCCGCAACATCTACCAGGAGTTCCTGTCCAGCCAGG
 CGCTGAGCCAGTGAACATCGACCGTCAGGCTGGCTTGGCGAGGAGGTGCTGGCCGAGC
 CCCGGCCGACATGTTTCGGGCACAGCAGCTTCAGATCTCAACTTGATGAAGTTCGACA
 GCTATGCGCGCTTCGTCAGTCCCGCTGTACCGCAGTGCCTGTAGCCGAAGCCGAGG
 GACGCCCTCTGCGGAACCTGGCTCCTCGCGCTCGGCAGCCCTGACGCCACGAGGAAGA
 AGCCGAAGCTGAAGCCCGGAAGTCGCTGCCGCTGGGTGTGGAGGAGTTGGGCAGCTGC
 CACCCGTTGAGGGTCTGGGGGCCGCCCTCCGCAAGTCTCCGCCGGGAGCTGGGCG
 GGACTGCAAACGCCGCTTGCGCCGAGAGTCTCAGGGCTCCCTCAACTCCTCCGCCAGCC
 TGGACCTTGGCTTCTAGCCTTCGTGAGCAGCAATCTGAGAGCCACCGAAGAGCCTTG
 GGAGCAGGAGGGTGAAGTGAAGCCGGCCAGGGAAGTACTGCTGTGTACTCTGCCCG
 ATGGCACAGCCTCCTTGGCCCTGGCCAGACCTGGCCTCACCATCCGAGACATGCTGGCAG
 GGATCTGTGAGAAACGAGGCCTCTCTACCTGACATCAAGTCTACCTGGTGGGCAATG
 AACAGGCCCTGGTCTGGATCAGGACTGCACCGTGTGGCGGATCAGGAAGTGGCGCTGG
 AAAACAGGATCACCTTCGAGCTGGAGTGCACCGTGTGGAGCGGTGGTACGAATCTCAG
 CCAAGCCACCAAGCGGCTGCAGGAGGCCGCTGCAGCCATTCTGGAGAAGCACGGCTTGA
 GCCCGCTAGAGGTGGTGTGCACCGGCCAGGCGAGAAACAGCCTCTGGATCTGGGGAAGC
 TAGTGAGCTCGGTGGCGCCAGAGACTGGTTTTGGACACTTCCAGGTGTGAAGATCT
 CCAAAGCCGTGACAAATCTCCCTGCCGAGCCAGGGCTGCCACCTAGAACTCAGGATA
 AGGCCACCCATCCCCCTCAGCGTCCCCAGTTCTCTGGTGAAGGTGCCAGTAGTGCCA
 CTGGAAAGCGGCAGACCTGTGACATCGAAGGCCTGGTGGAGCTGTGAACCGGTGCAGA
 GCAGCGGGGCCACGACCAGAGGGGCTTCTGAGGAAAGAGGACCTGGTACTTCCAGAAT
 TTCTGCAGCTGCCCGCCAAAGGGCCAGCTCCGAGGAGACCCACACAGACCAATCAG
 CAGCCCAGCCATCGGGGATCCTTGAACTCCACCACCGACTCAGCCCTCTGACAGCTAC
 CCAACAGTCCAGGACAGCTGCATGGCACCCGGCGGGCCGAGCATGCCATGGGTCCGCTCT
 GCATGCCCTGTCTGTGCCATGAGTGTCCCTGGCCCTTCTGCCATGGGCAGGCCCGCAG
 GAAGAGCCGGTAGGGTGGAAAGGGGACTCAGATGAGACACACCCACAGCTGCCACCGC
 CTTGTCCCTCAACAAGCTCACCCCAATCCCTTGACCCAGGCCACAATGGGGGAGGTGA
 GTCCAGCCCTTGAACAGGCTTGCCCAACATGGAGGGATGGCGTTGGCAGTGCCAGCCT
 CCCCAGCCTGTGCAAGCTTCAACAGGGCAAGAGGAGGGGCCGCCCTCCTCAGGAAG
 CTGGTATGAGTAAGCCCTTGAGGGTGCAGGCAGGCAGCCCTGTACCCACCCACATAGAC
 TATACTGTACATACAGATTTTGCAGTAGGCTTGGGGCAGCTGGGTTTGTCTTGATGTAT
 GATACTGTTATTATAATAATTATTATTATTCTGCAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_006480

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_006480.4 , NP_006471.2
RefSeq Size:	2418 bp
RefSeq ORF:	1701 bp
Locus ID:	10636
UniProt ID:	O43566
Cytogenetics:	5q35.3
Domains:	RGS, GoLoco, RBD
Protein Families:	Druggable Genome
Gene Summary:	<p>This gene encodes a member of the regulator of G-protein signaling family. This protein contains one RGS domain, two Raf-like Ras-binding domains (RBDs), and one GoLoco domain. The protein attenuates the signaling activity of G-proteins by binding, through its GoLoco domain, to specific types of activated, GTP-bound G alpha subunits. Acting as a GTPase activating protein (GAP), the protein increases the rate of conversion of the GTP to GDP. This hydrolysis allows the G alpha subunits to bind G beta/gamma subunit heterodimers, forming inactive G-protein heterotrimers, thereby terminating the signal. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized. [provided by RefSeq, Jul 2008]</p>