

## Product datasheet for **RC234129**

### **RGS6 (NM\_001204421) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RGS6 (NM_001204421) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RGS6
Synonyms:	GAP; HA117; S914
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC234129 representing NM\_001204421  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCTCAAGGATCCGGGATCAAAGAGCAGTGGGGTTGCTGACCCAGAGGAGAGTTCTCCAAACATGA  
 TCGTTTACTGCAAAATTGAAGACATCATTACAAAGATGCAAGATGACAAGACAGGGGGTGTGCCATCAG  
 AACAGTCAAGAGCTTTCTCTCCAAAATCCCCAGTGTCTGTCACAGGTAAGTACTGACATTGTGCAGTGGCTTATG  
 AAGAACCCTTCCATTGAGGACCCAGTTGAAGCAATACACTTGGGGAGCCTTATCGCTGCCAGGGCTACA  
 TCTTTCCAATCTCAGACCATGTTCTCACCATGAAGGATGATGGCACCTTTTATCGTTTCCAGGCTCCGTA  
 CTTCTGGCCTTCGAACTGCTGGGAACCTGAAAACACTGACTATGCCATCTATCTCTGTAAGAGGACAATG  
 CAAAATAAAGCAAGGCTGGAAGTGGCAGATTATGAAGCAGAAAACCTTAGCAAGACTCCAGAGGGCCTTTG  
 CGAGGAAGTGGGAATTCATCTTTATGCAAGCAGAAGCACAAAGTAAAGATTGACCGGAAAAAGACAAGAC  
 AGAAAGGAAAATTTGGATAGTCAAGAACGAGCCTTTTGGGATGTCCACAGGCCTGTGCCAGGCTGTGTG  
 AACACAACAGAAATGGATATCCGAAAATGTCGACGTTTGAAGAATCCACAAAAGGTTAAAAAGTCCGGTGT  
 ATGGCGTGACTGAAGAGTCCCAGGCACAGAGCCCGGTGCATGTACTCAGCCAACCAATCAGGAAAAACAAC  
 AAAAGAGGACATCCGAAAACAGATAACATTTTTGAACGCACAGATCGACAGACATTGTTTAAAAATGTCC  
 AAAGTGGCTGAAAGCAAAGAGCCAGCCAACAGCGAGTAAAAAGATGGGGCTTCTCTTTCGATGAGATAT  
 TGAAGGACCAGGTGGGGCGGGACCAGTTTCTACGATTCTGGAGTCCGAATTCAGTTCAGAAAACCTCAG  
 GTTCTGGCTGGCTGTCCAAGATCTTAAGAAACAACCCCTACAGGATGTGGCAAGAGGGTGAAGAAATC  
 TGGCAAGAGTTTCTGGCTCCAGGGGCTCCAAGTGAATCAACCTGGATTCTCACAGCTATGAGATAACCA  
 GTCAAAATGTCAAAGATGGAGGGAGATATACATTTGAAGACGCCAGGAGCACATCTACAAGCTGATGAA  
 GAGTGACAGCTATGCCCGTTCCCTCCGGTCAAATGCTTACCAGGATTTGCTGCTGGCCAAGAAGAAGCCA  
 GAAAGTGAGCAAGGTCGTAAGAACTCCCTAGAAAAGTTCCTCGCAGTGTGTTGTATTCCAACACTCCAC  
 TCGCTAAGAGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234129 representing NM\_001204421  
 Red=Cloning site Green=Tags(s)

MAQSGDQRAVGVADPEESSPNMIVYCKIEDIITKMQDDKTGGVPIRTVKSFLSKIPSVVTGTDIVQWLM  
 KNL SIEDPVEAIHLGSLIAAQGYIFPISDHVLTMKDDGTFYRFQAPYFWPNSCWEPENTDYAIYLCRMT  
 QNKARLELADYEAEENLARLQRAFARKWEFIFMQAEQVKIDRKKDKTERKILDSQERAFWDVHRPVPGCV  
 NTTEMDIRKCRRLKNPQKVKKSVMYGVTEESQAQSPVHVLSPQIRKTTKEDIRKQITFLNAQIDRHCLKMS  
 KVAESKEPSQQRVWRWGFSDIILKDVGRDQFLRFLESEFSSENLRFWLAQDLKKQPLQDVAKRVEEI  
 WQEF LAPGAPSAINLDSHSYEITSQNVKDGGRYTFEDAQEHIYKLMKSDSYARFLRSNAYQDLLLAKKKP  
 ESEQRRTSLEKFRSVLYSNTPLAKRP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001204421

**ORF Size:** 1344 bp

**OTI Disclaimer:** 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001204421.3](#)

**RefSeq Size:** 1605 bp

**RefSeq ORF:** 1347 bp

**Locus ID:** 9628

**UniProt ID:** [P49758](#)

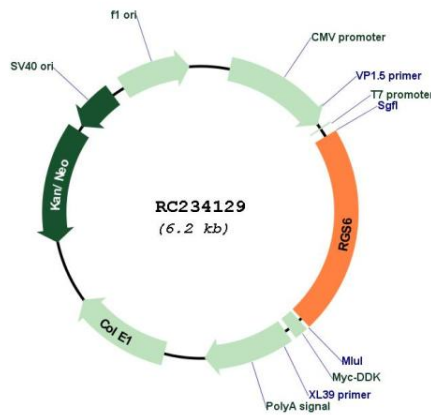
**Cytogenetics:** 14q24.2

**Protein Families:** Druggable Genome

**MW:** 52.3 kDa

**Gene Summary:** This gene encodes a member of the RGS (regulator of G protein signaling) family of proteins, which are defined by the presence of a RGS domain that confers the GTPase-activating activity of these proteins toward certain G alpha subunits. This protein also belongs to a subfamily of RGS proteins characterized by the presence of DEP and GGL domains, the latter a G beta 5-interacting domain. The RGS proteins negatively regulate G protein signaling, and may modulate neuronal, cardiovascular, lymphocytic activities, and cancer risk. Many alternatively spliced transcript variants encoding different isoforms with long or short N-terminal domains, complete or incomplete GGL domains, and distinct C-terminal domains, have been described for this gene, however, the full-length nature of some of these variants is not known.[provided by RefSeq, Mar 2011]

**Product images:**



Circular map for RC234129