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Product datasheet for RG234129

RGS6 (NM_001204421) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGS6 (NM_001204421) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RGS6
Synonyms:	GAP; HA117; S914
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG234129 representing NM_001204421
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCAAGGATCCGGGGATCAAAGAGCAGTGGGGGTTGCTGACCCAGAGGAGAGTTCTCCAAACATGA
TCGTTTACTGCAAAATTGAAGACATCATTACAAAGATGCAAGATGACAAGACAGGGGGTGTGCCCATCAG
AACAGTCAAGAGCTTTCTCTCCAAAATCCCCAGTGTCGTCACAGGTACTGACATTGTGCAGTGGCTTATG
AAGAACCTTTCCATTGAGGACCCAGTTGAAGCAATACACTTGGGGAGCCTTATCGCTGCCCAGGGCTACA
TCTTTCCAATCTCAGACCATGTTCTCACCATGAAGGATGATGGCACCTTTTATCGTTTCCAGGCTCCGTA
CTTCTGGCCTTCGAACTGCTGGGAACCTGAAAACACTGACTATGCCATCTATCTCTGTAAGAGGACAATG
CAAAATAAAGCAAGGCTGGAACTGGCAGATTATGAAGCAGAAAACTTAGCAAGACTCCAGAGGGCCTTTG
CGAGGAAGTGGGAATTCATCTTTATGCAAGCAGAAGCACAAGTAAAGATTGACCGGAAAAAAGACAAGAC
AGAAAGGAAAATTTTGGATAGTCAAGAACGAGCCTTTTGGGATGTCCACAGGCCTGTGCCAGGCTGTGTG
AACACAACAGAAATGGATATCCGAAAATGTCGACGTTTGAAGAATCCACAAAAGGTTAAAAAGTCCGTGT
ATGGCGTGACTGAAGAGTCCCAGGCACAGAGCCCGGTGCATGTACTCAGCCAACCAATCAGGAAAACAAC
AAAAGAGGACATCCGGAAACAGATAACATTTTTGAACGCACAGATCGACAGACATTGTTTGAAAATGTCC
AAAGTGGCTGAAAGCAAAGAGCCCAGCCAACAGCGAGTAAAAAGATGGGGCTTCTCTTTCGATGAGATAT
TGAAGGACCAGGTGGGGCGGGACCAGTTTCTACGATTCCTGGAGTCCGAATTCAGTTCAGAAAACCTCAG
GTTCTGGCTGGCTGTCCAAGATCTTAAGAAACAACCCCTACAGGATGTGGCCAAGAGGGTAGAAGAAATC
TGGCAAGAGTTTCTGGCTCCAGGGGCTCCAAGTGCAATCAACCTGGATTCTCACAGCTATGAGATAACCA
GTCAAAATGTCAAAGATGGAGGGAGATATACATTTGAAGACGCCCAGGAGCACATCTACAAGCTGATGAA
GAGTGACAGCTATGCCCGCTTCCTCCGGTCAAATGCTTACCAGGATTTGCTGCTGGCCAAGAAGAAGCCA
GAAAGTGAGCAAGGTCGTAGAACTTCCCTAGAAAAGTTCACTCGCAGTGTGTTGTATTCCAACACTCCAC
TCGCTAAGAGGCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

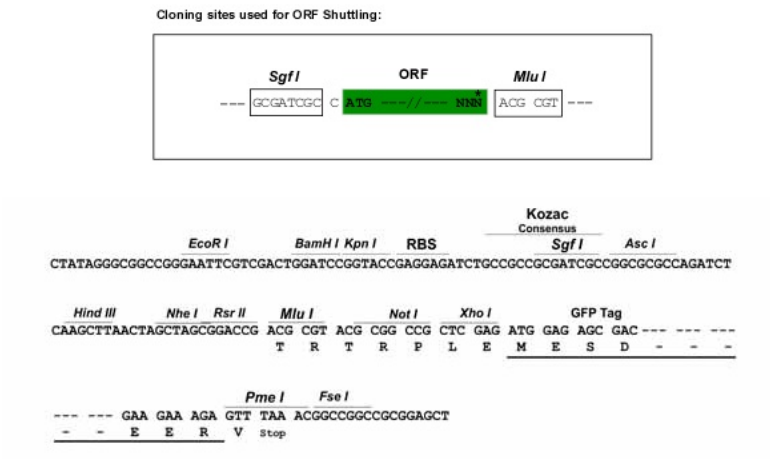
>RG234129 representing NM_001204421
Red=Cloning site Green=Tags(s)

MAQGSGDQRAVGVADPEESSPNMIVYCKIEDIITKMQDDKTGGVPIRTVKSFLSKIPSVVTGTDIVQWLM
KNLSIEDPVEAIHLGSLIAAQGYIFPISDHVLTMKDDGTFYRFQAPYFWPSNCWEPENTDYAIYLCKRTM
QNKARLELADYEAENLARLQRAFARKWEFIFMQAEAQVKIDRKKDKTERKILDSQERAFWDVHRPVPGCV
NTTEMDIRKCRRLKNPQKVKKSVYGVTEESQAQSPVHVLSQPIRKTTKEDIRKQITFLNAQIDRHCLKMS
KVAESKEPSQQRVKRWGFSFDEILKDQVGRDQFLRFLESEFSSENLRFWLAVQDLKKQPLQDVAKRVEEI
WQEFLAPGAPSAINLDSHSYEITSQNVKDGGRYTFEDAQEHIYKLMKSDSYARFLRSNAYQDLLLAKKKP
ESEQGRRTSLEKFTRSVLYSNTPLAKRP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

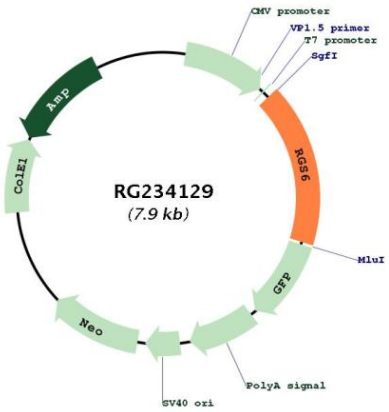


ACCN:	NM_001204421
ORF Size:	1344 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its 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

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 RG234129