

Product datasheet for **MR215445**

Rgs6 (NM_015812) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rgs6 (NM_015812) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rgs6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR215445 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCAGGGGTCGGGGACCAGCGAGCAGTGGGGATCGCTGATCCAGAAGAGAGTTCTCCCAACATGA
 TTGTCTACTGCAAAATTGAGGACATCATTACAAAGATGCAAGATGACAAGACAGGGGGTGTGCCATCAG
 AACAGTTAAGAGCTTTCTCTCCAAAATCCCCAGTGTCTGTCACAGGTAAGTACTGACATTGTACAGTGGCTTATG
 AAGAACCTTTCCATTGAGGACCCAGTTGAAGCAATACACCTGGGAAGCCTTATTGCCGCCAGGGCTACA
 TCTTCCCAATCTCAGACCATGTTCTCACCATGAAGGACGATGGCACCTTTTACCGTTTCCAGGCTCCTTA
 CTTCTGGCCTTCAAAGCTGCTGGGAACCTGAAAACACGGACTATGCCATCTATCTCTGTAAGAGGACGATG
 CAGAACAAGCAAGGCTGGAAGTGGCCGACTACGAAGCAGAAAACCTTAGCAAGACTCCAGAGGGCCTTTG
 CAAGGAAGTGGGAATTCATCTTTATGCAAGCAGAAGCACAAAGTGAAGATTGACCGGAAAAAGGATAAGAC
 AGAAAGAAAAATCTGGATAGCCAAGAAGCGGCCCTTCTGGGATGTCCACAGGCCAGTCCAGGCTGTGTG
 AACACAACAGAAATGGATATCAGAAAATGTCGGGCTTTGAAGAATCCACAAAAGGTTAAAAAGTCAGTAT
 ATGGTGTGACAGACGAGACCCAGTCACAGAGTCCAGTGCACATACCAAGCCAGCCAAATCAGGAAAACATC
 AAAAGATGACATCCGAAAACAGATAACGTTTTTGAATGCACAGATTGACAGACATTGTTTAAAAATGTCC
 AAAGTGGCTGAAAGTTTAAATCGCTTACACGGAGCAGTATGTGGAGTACGACCCATTACATAACACCAGCAG
 AGCCATCTAATCCTTGGATCAGCGATGACATCACCTTATGGGACATAGAGATGAGCAAAGAGCCAGCCA
 GCAGCGAGTGAAGCGTTGGGGCTTCTCTTTGATGAGATACTGAAGGACCAGGTGGGGCGGGACCAGTTC
 CTCAGATTCTGGAGTCAGAATTCAGCTCAGAAAATCTCAGTTCCTGGCTGTCTGTCCAAGATCTCAAGA
 AGCAACCTCTACAGGACGTGGCCAAAGAGGGTGGAGGAAATCTGGCAAGAGTTTCTAGCTCCCGGAGCCCC
 AAGTGCAATCAACTTGGATTCTCACAGCTATGAGATAACCAAGTCAGAATGTCAAAGATGGAGGGAGATAC
 ACATTTGAAGATGCCAGGAGCAGTCTACAAGCTGATGAAGAGTACAGCTATGCCCGCTTCTACGGT
 CCAACGCTTACCAGGATCTGTTGCTGGCCAAGAAGAAGGAAAGTCGCTGGCGGGCAAGCGCCTTACGGG
 CCTGATGCAGTCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

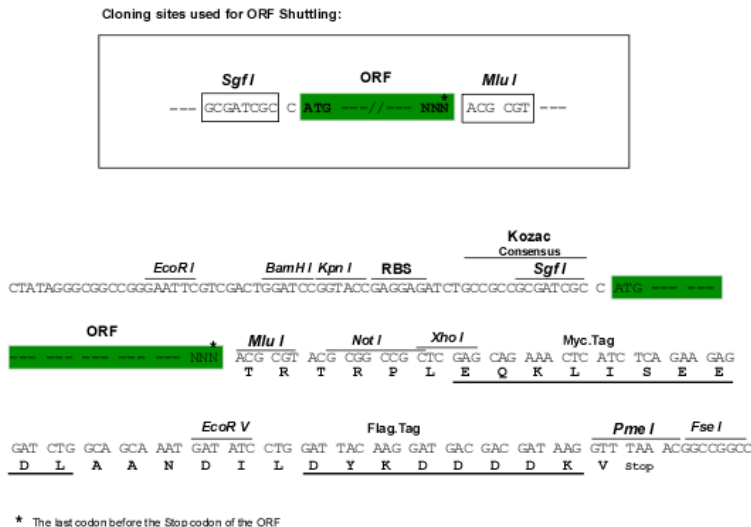
>MR215445 protein sequence
 Red=Cloning site Green=Tags(s)

MAQSGDQRAVGIADPEESSPNMIVYCKIEDIITKMQDDKTGGVPIRTVKSFLSKIPSVVTGTDIVQWLM
 KNLSIEDPVEAIHLGSLIAAQGYIFPISDHVLTMKDDGTFYRFQAPYFWPSNCWEPENTDYAIYLCKRTM
 QNKARLELADYEAEENLARLQRAFARKWEIFMQAEQVKIDRKKDKTERKILDSQERAFWDVHRPVPQCV
 NTTEMDIRKCRRLKNPQVKKSVMYGVVDETSQSPVHIPSQPIRKTTKDDIRKQITFLNAQIDRHCLKMS
 KVAESLIAYTEQYVEYDPFITPAEPSNPWISDDITLWDIEMSKEPSQQRVKRWGFSFDEILKDQVGRDQF
 LRFLESEFSSENLRFWLSVQDLKKQPLQDVAKRVEEIWQEFAPGAPSAINLDSHSYEITSQNVKDGGRY
 TFEDAQEHYKLMKSDSYARFLRSNAYQDLLAKKKGKSLAGKRLTGLMQSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_015812

ORF Size: 1419 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_015812.4](#), [NP_056627.1](#)

RefSeq Size: 2626 bp

RefSeq ORF: 1419 bp

Locus ID: 50779

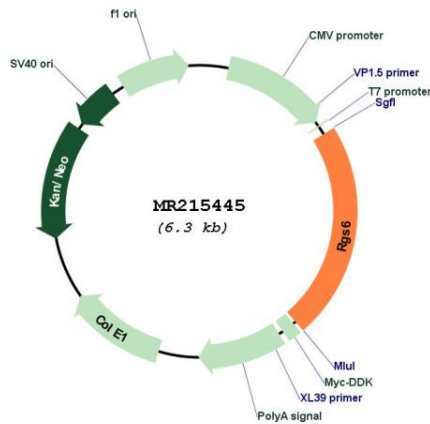
UniProt ID: [Q9Z2H2](#)

Cytogenetics: 12 38.14 cM

MW: 54.5 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 (Dishevelled, Egl-10, and Pleckstrin) and GGL (G-protein gamma like) 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. Mice lacking this gene exhibit decreased heart rate. Alternative splicing results in multiple transcript variants, however, the full-length nature of some of these variants is not known. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MR215445