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Product datasheet for MG215445

Rgs6 (NM_015812) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rgs6 (NM_015812) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rgs6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>MG215445 representing NM_015812
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCAGGGGTCCGGGGACCAGCGAGCAGTGGGGATCGCTGATCCAGAAGAGAGTTCTCCCAACATGA
TTGTCTACTGCAAAATTGAGGACATCATTACAAAGATGCAAGATGACAAGACAGGGGGTGTGCCCATCAG
AACAGTTAAGAGCTTTCTCTCCAAAATCCCCAGTGTCGTCACAGGTACTGACATTGTACAGTGGCTTATG
AAGAACCTTTCCATTGAGGACCCAGTTGAAGCAATACACCTGGGAAGCCTTATTGCCGCCCAGGGCTACA
TCTTCCCAATCTCAGACCATGTTCTCACCATGAAGGACGATGGCACCTTTTACCGTTTCCAGGCTCCTTA
CTTCTGGCCTTCAAACTGCTGGGAACCTGAAAACACGGACTATGCCATCTATCTCTGTAAGAGGACGATG
CAGAACAAAGCAAGGCTGGAACTGGCCGACTACGAAGCAGAAAACTTAGCAAGACTCCAGAGGGCCTTTG
CAAGGAAGTGGGAATTCATCTTTATGCAAGCAGAAGCACAAGTGAAGATTGACCGGAAAAAGGATAAGAC
AGAAAGAAAAATTCTGGATAGCCAAGAACGGGCCTTCTGGGATGTCCACAGGCCAGTGCCAGGCTGTGTG
AACACAACAGAAATGGATATCAGAAAATGTCGGCGTTTGAAGAATCCACAAAAGGTTAAAAAGTCAGTAT
ATGGTGTGACAGACGAGACCCAGTCACAGAGTCCAGTGCACATACCAAGCCAGCCAATCAGGAAAACTAC
AAAAGATGACATCCGAAAACAGATAACGTTTTTGAATGCACAGATTGACAGACATTGTTTGAAAATGTCC
AAAGTGGCTGAAAGTTTAATCGCTTACACGGAGCAGTATGTGGAGTACGACCCATTCATAACACCAGCAG
AGCCATCTAATCCTTGGATCAGCGATGACATCACCTTATGGGACATAGAGATGAGCAAAGAGCCCAGCCA
GCAGCGAGTGAAGCGTTGGGGCTTCTCTTTTGATGAGATACTGAAGGACCAGGTGGGGCGGGACCAGTTC
CTCAGATTCCTGGAGTCAGAATTCAGCTCAGAAAATCTCAGGTTCTGGCTGTCTGTCCAAGATCTCAAGA
AGCAACCTCTACAGGACGTGGCCAAGAGGGTGGAGGAAATCTGGCAAGAGTTTCTAGCTCCCGGAGCCCC
AAGTGCAATCAACTTGGATTCTCACAGCTATGAGATAACCAGTCAGAATGTCAAAGATGGAGGGAGATAC
ACATTTGAAGATGCCCAGGAGCACATCTACAAGCTGATGAAGAGTGACAGCTATGCCCGCTTCCTACGGT
CCAACGCTTACCAGGATCTGTTGCTGGCCAAGAAGAAGGGAAAGTCGCTGGCGGGCAAGCGCCTTACGGG
CCTGATGCAGTCCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

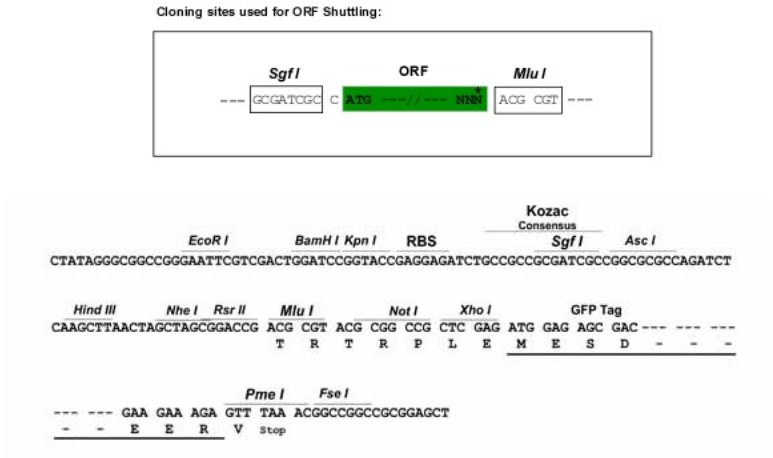
>MG215445 representing NM_015812
Red=Cloning site Green=Tags(s)

MAQGSGDQRAVGIADPEESSPNMIVYCKIEDIITKMQDDKTGGVPIRTVKSFLSKIPSVVTGTDIVQWLM
KNLSIEDPVEAIHLGSLIAAQGYIFPISDHVLTMKDDGTFYRFQAPYFWPSNCWEPENTDYAIYLCKRTM
QNKARLELADYEAENLARLQRAFARKWEFIFMQAEAQVKIDRKKDKTERKILDSQERAFWDVHRPVPGCV
NTTEMDIRKCRRLKNPQKVKKSVYGVTDETQSQSPVHIPSQPIRKTTKDDIRKQITFLNAQIDRHCLKMS
KVAESLIAYTEQYVEYDPFITPAEPSNPWISDDITLWDIEMSKEPSQQRVKRWGFSFDEILKDQVGRDQF
LRFLESEFSSENLRFWLSVQDLKKQPLQDVAKRVEEIWQEFLAPGAPSAINLDSHSYEITSQNVKDGGRY
TFEDAQEHIYKLMKSDSYARFLRSNAYQDLLLAKKKGKSLAGKRLTGLMQSS

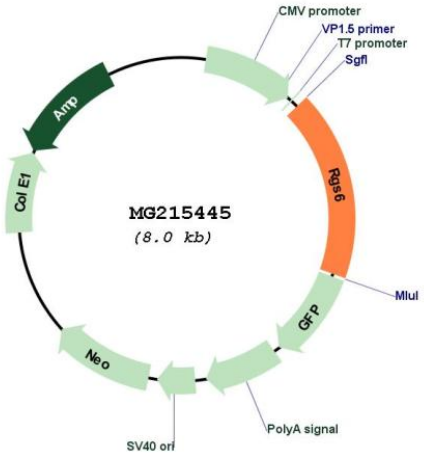
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_015812
ORF Size:	1416 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
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]