

GTCCTTCTATTTCTGTTACCTCTCCCATGAGTCTGGAATGTTGAGGGATGTCCACAGTTCTTATCAGG
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TTATGGCCGCATGGATCACAATCTTTTATGGGAGTGGCCAGATACTTTTAGATGAAGTAGAGCTATCC
AATATGGTGATCGGATGGTCAAACCTTTCCACCTTCTCCTCTAGTAGATCCAACCTTGGCCCCCTGTA
CAAGAAGAGCTTCCAATCATCTCTGGAAGTTCAACTGGACCTTCTACTCTCGTTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG207190 representing NM_014677

Red=Cloning site Green=Tags(s)

MQFETLRQVCNSVLSHFHGVFSSPPNILLQNELFGQTLNARKRSPSVSRDQNRRYDQREEREYSQYATS
DTAMPRSPSYADRRFQHEPQFYEDSDHLSYRDSNRRSHRSKEYIVDDEDVESRDEYERQREEEYQSR
YRSDPNLARYPVKPPQPYEEQMRIHAEVSRARHERRHSDVSLANADLEDRIISMLRMDRPSRQRSISERRA
AMENQRSYSMERTREAQGPSSYAQRTTNHSPPTPRRSPLPIDRDLRRTDLSLRKHLDLPSSAVRKTRE
KMETMLRNDLSDDRSESVRPPPKPHKSKKGGKMRQISLSSSEELASTPEYTSDDVEIESESVSEKG
DMDYNWL DHTSWHSSEASPMSLHPVTWQPSKDGDRLLIGRILLNKRLKDGSVPRDSGAMLLGLKVVGKMT
SGRLCAFITKVKKGLADTVGHLRPGDEVLEWNGRLLQGATFEEVYNIILESKEPEQVELVVSRIPIGDIP
RIPDSTHAQLESSESSSFESQKMDRPSISVTSMPSPGMLRDVPQFLSGQLSIKLWFDKVGHQLIVTILGAK
DLPSREDGRPRNPVYKIYFLPDRSDKNKRRRTKVKTLEPKWNQTFIYSPVHRREFRERMLEITLWDQAR
VREEESEFLGEILIELETALLDDEPHWYKLQTHDVSSLPLPHPSPYMPRRQLHGESPTRRLQSRKISDS
EVSDYDCDDGIGVVSRYRHDGRDLQSSTLSVPEQVMSSNHCSPSGSPHRVDVIGRTRSWSPVPPQSRN
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RSRSTEQRPLLETTTISRSTERPDNLMSMPSLMTGRSAPPSPALSRSHPRTGVSQTSPTSSTPVAGRR
GRQLPQLPPKGTLDKAGGKKLRSTVQRSTETGLAVEMRNWMTQASRESTDGSMSYSSEGNLIFPGVR
LASDSQFSDFLDGLGPAQLVGRQTLATPAMGDIQVGMMDKKGQLEVEIIRARGLVVKPGSKTLAPYVVKV
YLLDNGVCIAKKKTKVARKTLEPLYQQLSFEESPPQGVKQIIIVWDYGRMDHKSFMGVAQILLDELELS
NMVIGWFKLFPPSSLVDPTLAPLTRRASQSSLESSTGPSYSRS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_014677

ORF Size: 3489 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.

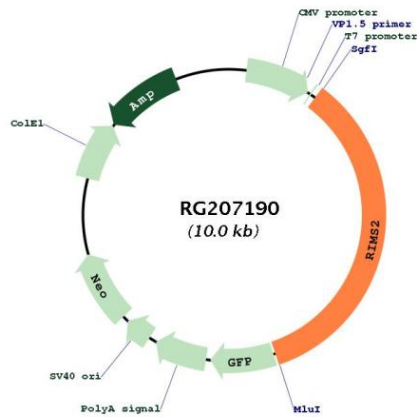
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_014677.2](#), [NP_055492.2](#)

RefSeq Size:	4451 bp
RefSeq ORF:	3492 bp
Locus ID:	9699
UniProt ID:	Q9UQ26
Cytogenetics:	8q22.3
Domains:	C2, PDZ

Gene Summary: The protein encoded by this gene is a presynaptic protein that interacts with RAB3, a protein important for normal neurotransmitter release. The encoded protein can also bind several other synaptic proteins, including UNC-13 homolog B, ELKS/Rab6-interacting/CAST family member 1, and synaptotagmin 1. This protein is involved in synaptic membrane exocytosis. Polymorphisms in this gene have been associated with degenerative lumbar scoliosis. [provided by RefSeq, Feb 2017]

Product images:



Circular map for RG207190