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Product datasheet for RG201113

Rapsyn (RAPSN) (NM_032645) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rapsyn (RAPSN) (NM_032645) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RAPSN
Synonyms:	CMS4C; CMS11; FADS; FADS2; RAPSYN; RNF205
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG201113 representing NM_032645
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGCAGGACCAGACCAAGAAGCAGATCGAGAAGGGGCTCCAGCTGTACCAGTCCAACCAGACAGAGA
AGGCATTGCAGGTGTGGACAAAGGTGCTGGAGAAGAGCTCGGACCTCATGGGGCGCTTCCGCGTGCTGGG
CTGCCTGGTCACAGCCCACTCGGAGATGGGCCGCTACAAGGAGATGCTGAAGTTCGCTGTGGTCCAGATC
GACACGGCCCGGGAGCTGGAGGATGCCGACTTCCTCCTGGAGAGCTACCTGAACCTGGCACGCAGCAACG
AGAAGCTGTGCGAGTTTCACAAGACCATCTCCTACTGCAAGACCTGCCTTGGGCTGCCTGGTACCAGGGC
AGGTGCCCAGCTCGGAGGCCAGGTCAGCCTGAGCATGGGCAATGCCTTCCTGGGCCTCAGCGTCTTCCAG
AAGGCCCTGGAGAGCTTCGAGAAGGCCCTGCGCTATGCCCACAACAATGATGACGCCATGCTCGAGTGCC
GCGTGTGCTGCAGCCTGGGCAGCTTCTATGCCCAGGTCAAGGACTACGAGAAAGCCCTGTTCTTCCCCTG
CAAGGCGGCAGAGCTTGTCAACAACTATGGCAAAGGCTGGAGCCTGAAGTACCGGGCCATGAGCCAGTAC
CACATGGCCGTGGCCTATCGCCTGCTGGGCCGCCTGGGCAGTGCCATGGAGTGTTGTGAGGAGTCTATGA
AGATCGCGCTGCAGCACGGGGACCGGCCACTGCAGGCGCTCTGCCTGCTCTGCTTCGCTGACATCCACCG
GAGCCGTGGGGACCTGGAGCTGAGCCAGCTCAAGCTGCACTGTCTGAGCGAGAGCATTTACCGCAGCAAA
GGGCTGCAGCGGGAACTGCGGGCGCACGTTGTGAGGTTCCACGAGTGCGTGGAGGAGACGGAGCTCTACT
GCGGCCTGTGCGGCGAGTCCATAGGCGAGAAGAACAGCCGGCTGCAGGCCCTACCTTGCTCCCACATCTT
CCACCTCAGGTGCCTGCAGAACAACGGGACCCGGAGCTGTCCCAACTGCCGCCGCTCATCCATGAAGCCT
GGCTTTGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

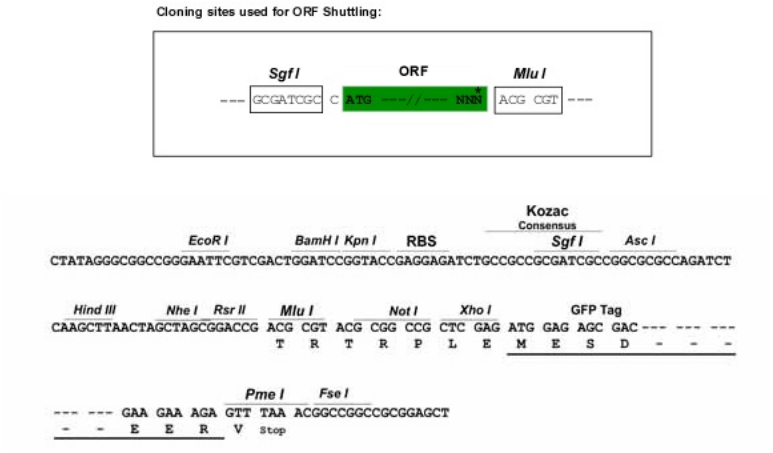
>RG201113 representing NM_032645
Red=Cloning site Green=Tags(s)

MGQDQTKKQIEKGLQLYQSNQTEKALQVWTKVLEKSSDLMGRFRVLGCLVTAHSEMGRYKEMLKFAVVQI
DTARELEDADFLLESYLNLARSNEKLCEFHKTISYCKTCLGLPGTRAGAQLGGQVSLSMGNAFLGLSVFQ
KALESFEKALRYAHNNDDAMLECRVCCSLGSFYAQVKDYEKALFFPCKAAELVNNYGKGWSLKYRAMSQY
HMAVAYRLLGRLGSAMECCEESMKIALQHGDRPLQALCLLCFADIHRSRGDLELSQLKLHCLSESIYRSK
GLQRELRAHVVRFHECVEETELYCGLCGESIGEKNSRLQALPCSHIFHLRCLQNNGTRSCPNCRRSSMKP
GFV

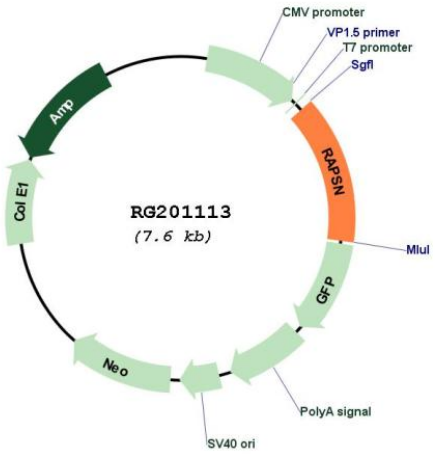
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_032645

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ORF Size:	1059 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_032645.2
RefSeq Size:	1541 bp
RefSeq ORF:	1062 bp
Locus ID:	5913
UniProt ID:	Q13702
Cytogenetics:	11p11.2
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a member of a family of proteins that are receptor associated proteins of the synapse. The encoded protein contains a conserved cAMP-dependent protein kinase phosphorylation site, and plays a critical role in clustering and anchoring nicotinic acetylcholine receptors at synaptic sites by linking the receptors to the underlying postsynaptic cytoskeleton, possibly by direct association with actin or spectrin. Mutations in this gene may play a role in postsynaptic congenital myasthenic syndromes. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Apr 2011]

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