

## Product datasheet for SC123041

### Rapsyn (RAPSN) (NM\_032645) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rapsyn (RAPSN) (NM\_032645) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Rapsyn  
**Synonyms:** CMS4C; CMS11; FADS; FADS2; RAPSYN; RNF205  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_032645 edited  
CAGCTTTGTTCCACGGTGGCGCTCTCCATCCAGGCCCATCCGGCTCCCACCCG  
ACGCTGCTTTTGTCCACGTTTCGGGGGCGAGCTGGCACTGTGATTCTGCCCATGAG  
TGCTTAGAGGCACGGAGCCACCAGGATCACCCACGTGGGACACAGGGCTTGGGAGGA  
TGGGGCAGGACCAGACCAAGAAGCAGATCGAGAAGGGGCTCCAGCTGTACCAGTCCAACC  
AGACAGAGAAGGCATTGCAGGTGTGGACAAAGGTGCTGGAGAAGAGCTCGGACCTCATGG  
GGCGCTCCGCGTGTGGGCTGCCTGGTCACAGCCCACTCGGAGATGGGCCGCTACAAGG  
AGATGCTGAAGTTCGCTGTGGTCCAGATCGACACGGCCCGGAGCTGGAGGATGCCGACT  
TCCTCCTGGAGAGCTACCTGAACCTGGCACGCAGCAACGAGAAGCTGTGCGAGTTTACA  
AGACCATCTCCTACTGCAAGACCTGCCTTGGGCTGCCTGGTACCAGGGCAGGTGCCCAGC  
TCGGAGGCCAGGTGAGCCTGAGCATGGGCAATGCCTTCCCTGGGCCTCAGCGTCTCCAGA  
AGGCCCTGGAGAGCTTCGAGAAGGCCCTGCGCTATGCCCAACAACATGATGACGCCATGC  
TCGAGTGGCCGCTGTGCTGCAGCCTGGGAGCTTCTATGCCAGGTCAAGGACTACGAGA  
AAGCCCTGTTCTTCCCCTGCAAGGGCGCAGAGCTTGTCAACAACATGGCAAAGGCTGGA  
GCCTGAAGTACCGGGCCATGAGCCAGTACCACATGGCCGTGGCCTATCGCTGTGGGCC  
GCCTGGCAGTGCATGGAGTGTGTGAGGAGTCTATGAAGATCGCGCTGCAGCACGGGG  
ACCGGCCACTGCAGGCGCTCTGCCTGCTGCTTCGCTGACATCCACGGAGCCGTGGGG  
ACCTGGAGCTGAGCCAGCTCAAGCTGACTGTCTGAGCGAGAGCATTTACCGCAGCAAAG  
GGCTGCAGCGGGAACGCGGGCGCACGTTGTGAGGTTCCACGAGTGCCTGGAGGAGACGG  
AGCTCTACTGCGCCTGTGCGGGCAGTCCATAGGCGAGAAGAACAGCCGCTGCAGGCC  
TACCTTGCTCCACATCTTCCACCTCAGGTGCCTGCAGAACAACGGGACCCGGAGCTGTC  
CCAACCTGCCGCCGCTCATCCATGAAGCCTGGCTTTGTATGACTCCTGGCAGCAGGCGTGG  
GCTTCTCCTCGCCACTCCTGCTTTTCTCCACTGCATGCCAGAGGCCCATTTACTCCTG  
GGGAGCTGCCAGGTCGCTCCTCACCATAGCCAAGGCCTTGGGGCTGCCAGGGCTGCTC  
CCCTGGGCCAGCTCCCTCCCTGCCTCTTTGTACTTTGCTTTATAGAAAAATAAACT  
GTTTGTACCTGGAAA  
AAAAA



[View online »](#)

<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_032645 unedited NNNTAGTCAACATTTGTATACGACTCACTATAGGGCGCCGCAATTTCGCACGAGGCAGCT TTGTTCCAGGTGGCGCCTGCTCTCCATCCATGCCCATTCGGCTCCCACCCGACGCTG CTTTTGTTCCACGTTTCGGGGGGCAGCTGGCACTGTGATTCTGCCCATGAGTGCCTA GAGGCACGGAGCCACCAGGGATCACCCACGTGGGACACAGGGCTTGGGGAGGATGGGGC AGGACCAGACCAAGAAGCAGATCGAGAAGGGGCTCCAGCTGTACCAGTCCAACCAGACAG AGAAGGCATTGCAGGTGTGGACAAGGTGCTGGAGAAGAGCTCGGACCTCATGGGGCGCT TCCGCGTGTGGCTGCCTGGTACAGCCCACTCGGAGATGGGCCGTACAAGGAGATGC TGAAGTTCGCTGTGGTCCAGATCGACACGGCCCGGAGCTGGAGGATGCCGACTTCTCC TGGAGAGTACCTGAACCTGGCACGCAGCAACGAGAAGCTGTGCGAGTTTACAAGACCA TCTCTACTGCAAGACCTGCCTTGGGCTGCCTGGTACCAGGGCAGGTGCCAGCTCGGAG GCCAGGTGAGCCTGAGCATGGGCAATGCCTTCTGGGCTCAGCGTCTTCCAGAAGGCC TGGAGAGCTTCGAGAAGGCCCTGCGCTATGCCACAACAATGATGACGCCATGCTCGAGT GCCGCGTGTGCTGCAGCCTGNGCAGCTTCTATGCCAGGTCAAGGACTACGAGAAAGCCC TGGTCTTCCCCTGCAAGGCGGCAGAGCTTGTCAACAACATATGGCAAAGGCTGGAGCCTGA AGTACCGGGCCATGAGCCAGTACCACATGGCCT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_032645
<b>Insert Size:</b>	1515 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_032645.3</a> , <a href="#">NP_116034.2</a>
<b>RefSeq Size:</b>	1541 bp
<b>RefSeq ORF:</b>	1062 bp
<b>Locus ID:</b>	5913
<b>UniProt ID:</b>	<a href="#">Q13702</a>
<b>Cytogenetics:</b>	11p11.2
<b>Protein Families:</b>	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]

Transcript Variant: This variant (2) lacks two consecutive exons in the coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.