

Product datasheet for **MG227341**

Rapsn (NM_009023) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rapsn (NM_009023) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rapsn
Synonyms:	43kDa; Nraps; Raps; rapsyn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG227341 representing NM_009023 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCAGGACCAGACAAAGCAACAGATTGAAAAGGACTGCAGCTGTACCAGTCCAACCAGACAGAGA
AGGCACTGCAGGTGTGGATGAAGGTGCTGGAGAAGGGCTCTGACCTCGTGGGCCGCTTCCGGTACTGGG
CTGCTTGGTAACAGCTCACTCGGAGATGGGCCGCTACAAAGAGATGCTGAAGTTTGCCGTGGTCCAGATT
GATACTGCTCGGGACTGGAGGATGCTGACTTCTGCTCGAAAGCTACCTGAACCTGGCGCGCAGCAATG
AGAAGCTATGTGAGTTCACAAAACCATCTCCTACTGCAAGACCTGCCTCGCCTGCCTGGCACCAGGGC
TGGTGCCAGCTTGGGGTCAAGTCAAGCTGAGCATGGGCAATGCTTTCCTGGGCCTCAGCCTCTTCCAG
AAGGCCCTGGAGAGCTTTGAGAAGGCCCTGCGCTATGCCACAACAACGATGACACCATGCTGGAGTGCC
GTGTCTGCTGCAGCCTGGGCAGTTTCTACGCCAGGTCAAGGACTATGAGAAAGCCCTGTTCTTTCCCTG
CAAGGCTGCAGAGCTTGTCAACGACTATGGCAAAGGCTGGAGCCTCAAATATCGGGCCATGAGCCAATAC
CACATGGCTGTGGCCTACCGCTGCTGGCCACCTGGGCAGTGCCATGGAGTGTTGTGAGGAGTCCATGA
AGATTGCCCTGCAGCACGGTGACCGCCGCTACAGGCACTCTGTCTGCTCTGCTTTGCCGATATCCATCG
GAGCCGAGGGGACCTGGAGACAGCCTTCCCTCGGTACGACTCCGCTATGAGCATCATGACTGAGATCGGA
AACCGCCTCGGGCAGGTGCACGTGCTGCTGGGTGTCGCAAGTGGTGGATGGCCCGAAGGTGCAAGACA
AGGCTTTGGATGCCATTGAGAAAGCCAGGACTTAGCTGAAGAGTTGGCAATAAGCTGAGCCAGCTCAA
GCTGCATTGCCTGAGTGAGAGCATCTACCGCAGCAAAGGGCTGCAGCGTGAGCTGCGCACGCACGTAGTG
AGGTTCCACGAGTGCGTGGAGGAGACTGAGCTCTACTGCGCCTCTGTGGTGAAGTCCATCGGGGAGAGGA
ACAGCCGGCTGCAGGCCCTGCCCTGCTCCACATCTTTTCATCTCAGATGCCTGCAAAACAATGGCACTAG
GAGCTGCCCAACTGCCCGCCTCTCCATGAAGCCGGGCTTTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG227341 representing NM_009023
 Red=Cloning site Green=Tags(s)

MGQDQTKQQIEKGLQLYQSNQTEKALQVWMKVLEKGSDDL VGRFRVLGCLVTAHSEMGRYKEMLFKFAVVQI
 DTARGLEDADFLLESYLNARSNEKLCEFHKTISYCKTCLGLPGTRAGQLGGQVSLSMGNAFLGLSLFQ
 KALESFEKALRYAHNDDTMLECRVCCSLGSFYAQVKDYEKALFFPCKAAELVNDYGKGWSLKYRAMSQY
 HMAVAYRLLGHLGSAMECCCEESMKIALQHGRPLQALCLLFCADIHRSRGDLETAFPYDSAMSIMTEIG
 NRLGQVHVLLGVAKCWMARKVQDKALDAIEKAQDLAEEVGNKLSQLKLHCLSESIYRSKGLQREL RTHVV
 RFHECV EETELYCGLCGESIGERN SRLQALPCSHIFHLRCLQNNGTRSCPNCRSSMKPGFV

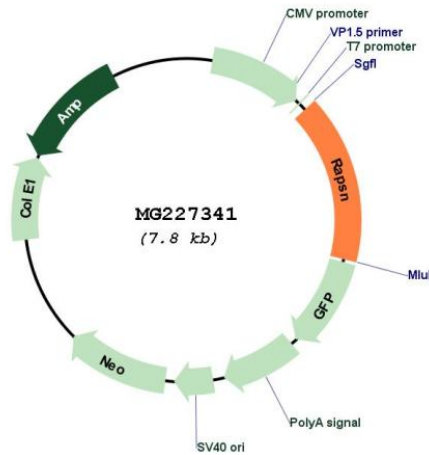
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_009023

ORF Size:	1236 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:	<ol style="list-style-type: none">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_009023.3 , NP_033049.2
RefSeq Size:	1620 bp
RefSeq ORF:	1239 bp
Locus ID:	19400
UniProt ID:	P12672
Cytogenetics:	2 50.44 cM
Gene Summary:	Postsynaptic protein required for clustering of nicotinic acetylcholine receptors (nAChRs) at the neuromuscular junction. It may link the receptor to the underlying postsynaptic cytoskeleton, possibly by direct association with actin or spectrin (By similarity). [UniProtKB/Swiss-Prot Function]