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Product datasheet for RC219395

Synapsin III (SYN3) (NM_003490) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synapsin III (SYN3) (NM_003490) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Synapsin III
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC219395 representing NM_003490
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATTTCCTCCGGCGACGTCTCTCTGACAGCAGCTTCATGGCCAACCTGCCTAATGGCTATATGACGG
ACCTGCAACGCCCAGATAGCTCCACCAGCTCACCTGCTTCCCCCGCCATGGAGAGGAGGCACCCCCAGCC
CCTGGCTGCCTCCTTCTCCTCTCCAGGATCCAGCCTTTTTAGCTCCCTCTCCAGTGCCATGAAGCAGGCC
CCTCAGGCCACCTCAGGACTGATGGAGCCTCCAGGTCCCTCCACGCCCATTGTTCAAAGACCCAGGATCC
TGTTGGTGATCGATGATGCCCATACAGACTGGTCGAAGTATTTCCATGGGAAGAAGGTGAATGGAGAGAT
TGAGATCCGAGTGGAGCAGGCTGAATTCTCAGAGTTGAACCTAGCTGCCTATGTGACCGGGGGCTGCATG
GTGGACATGCAGGTCGTGAGAAATGGGACCAAAGTGGTGAGCAGATCCTTCAAGCCAGACTTCATCCTGG
TCCGCCAGCATGCCTACAGCATGGCCCTGGGGGAAGACTACCGCAGCCTGGTCATCGGCCTGCAGTATGG
AGGGCTGCCTGCTGTCAACTCTCTCTACTCCGTCTACAACTTCTGCAGCAAGCCCTGGGTGTTCTCTCAG
CTCATTAAGATCTTCCATTCCCTGGGTCCTGAGAAGTTCCCGCTTGTGGAGCAAACATTTTTCCCCAACC
ATAAGCCAATGGTCACAGCCCCACACTTCCCGGTGGTAGTCAAGCTGGGACATGCCCACGCTGGAATGGG
AAAGATCAAAGTGGAAAACCAGCTTGACTTCCAGGACATCACCAGCGTGGTCGCCATGGCCAAAACCTAC
GCCACCACCGAGGCCTTCATCGACTCCAAGTACGACATCCGCATCCAGAAAATTGGATCCAACTACAAGG
CTTACATGAGAACCTCCATCTCTGGGAACTGGAAGGCCAACACAGGCTCTGCCATGCTGGAGCAGGTGGC
CATGACAGAGAGGTACAGGCTGTGGGTGGACAGCTGCTCGGAAATGTTTGGCGGCCTGGACATCTGTGCC
GTCAAGGCTGTCCACAGCAAGGATGGCAGAGATTACATCATCGAGGTAATGGACAGCTCAATGCCGCTGA
TTGGAGAGCATGTGGAAGAGGACAGACAGCTGATGGCCGACCTTGTTGTCTCCAAAATGAGCCAGCTCCC
GATGCCAGGAGGCACAGCGCCCTCCCCCCTCAGACCTTGGGCTCCACAGATTAAATCAGCGAAATCCCCA
GGGCAAGCCCAGCTGGGGCCTCAGCTAGGCCAGCCCCAGCCACGCCCACCTCCGCAAGGAGGCCCTCGCC
AAGCTCAGTCTCCTCAGCCCCAGAGATCTGGAAGCCCCTCCCAACAGAGGCTCTCCCCACAAGGCCAGCA
GCCCCTGAGCCCCCAGTCCGGATCTCCACAGCAGCAAAGGTCACCAGGCTCTCCGCAGCTATCCCGGGCA
TCCAGTGGCAGCTCCCCAAACCAGGCCTCCAAGCCAGGTGCCACCCTCGCCTCACAGCCCCGGCCCCCTG
TGCAGGGCCGTAGTACCTCCCAGCAGGGTGAAGAGTCCAAGAAGCCAGCACCACCCCATCCGCATCTCAA
CAAATCTCAGTCCCTGACTAACAGCCTCAGCACATCCGACACCTCCCAGCGTGGGACCCCAAGTGAAGAC
GAGGCCAAGGCTGAAACCATCCGCAACCTGAGGAAGTCTTTTGCCAGCCTGTTCTCTGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC219395 representing NM_003490
Red=Cloning site Green=Tags(s)

MNFLRRRLSDSSFMANLPNGYMTDLQRPDSSTSSPASPAMERRHPQPLAASFSSPGSSLFSSLSSAMKQA
PQATSGLMEPPGPSTPIVQRPRILLVIDDAHTDWSKYFHGKKVNGEIEIRVEQAEFSELNLAAYVTGGCM
VDMQVVRNGTKVVSRSFKPDFILVRQHAYSMALGEDYRSLVIGLQYGGLPAVNSLYSVYNFCSKPWVFSQ
LIKIFHSLGPEKFPLVEQTFFPNHKPMVTAPHFPVVVKLGHAHAGMGKIKVENQLDFQDITSVVAMAKTY
ATTEAFIDSKYDIRIQKIGSNYKAYMRTSISGNWKANTGSAMLEQVAMTERYRLWVDSCSEMFGGLDICA
VKAVHSKDGRDYIIEVMDSSMPLIGEHVEEDRQLMADLVVSKMSQLPMPGGTAPSPLRPWAPQIKSAKSP
GQAQLGPQLGQPQPRPPPQGGPRQAQSPQPQRSGSPSQQRLSPQGQQPLSPQSGSPQQQRSPGSPQLSRA
SSGSSPNQASKPGATLASQPRPPVQGRSTSQQGEESKKPAPPHPHLNKSQSLTNSLSTSDTSQRGTPSED
EAKAETIRNLRKSFASLFSD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2648_e10.zip

Restriction Sites: SgfI-MluI

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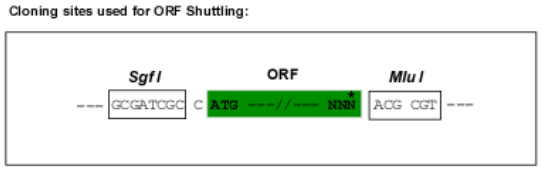
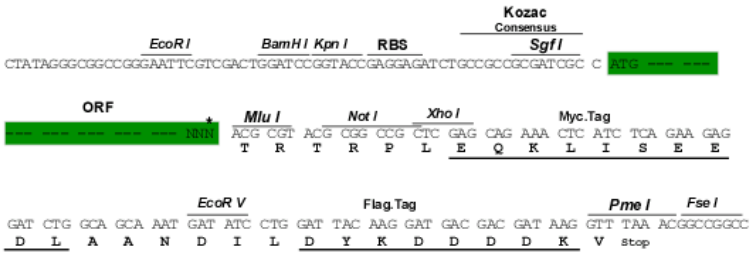
Cloning Scheme:





* The last codon before the Stop codon of the ORF

ACCN: NM_003490

ORF Size: 1740 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_003490.4

RefSeq Size: 2918 bp

RefSeq ORF: 1743 bp

Locus ID: 8224

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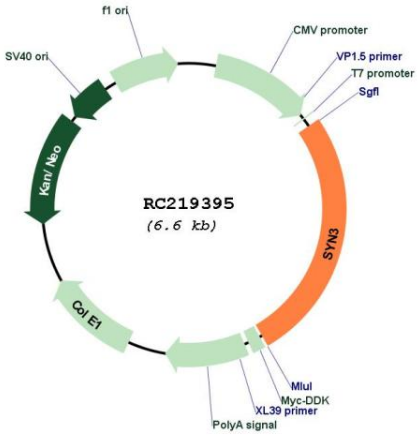
UniProt ID:	O14994
Cytogenetics:	22q12.3
Protein Families:	Secreted Protein
MW:	63.1 kDa
Gene Summary:	This gene is a member of the synapsin gene family. Synapsins encode neuronal phosphoproteins which associate with the cytoplasmic surface of synaptic vesicles. Family members are characterized by common protein domains, and they are implicated in synaptogenesis and the modulation of neurotransmitter release, suggesting a potential role in several neuropsychiatric diseases. The protein encoded by this gene shares the synapsin family domain model, with domains A, C, and E exhibiting the highest degree of conservation. The protein contains a unique domain J, located between domains C and E. Based on this gene's localization to 22q12.3, a possible schizophrenia susceptibility locus, and the established neurobiological roles of the synapsins, this family member may represent a candidate gene for schizophrenia. The TIMP3 gene is located within an intron of this gene and is transcribed in the opposite direction. Alternative splicing of this gene results in multiple splice variants that encode different isoforms. [provided by RefSeq, Oct 2008]

Product images:



Circular map for RC219395

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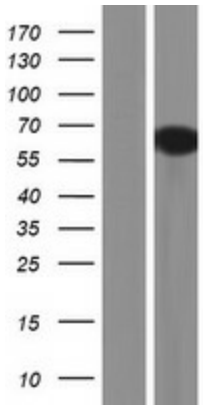
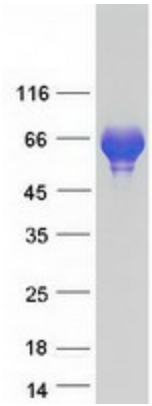


Western blot validation of overexpression lysate (Cat# [LY401178]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219395 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SYN3 protein (Cat# [TP319395]). The protein was produced from HEK293T cells transfected with SYN3 cDNA clone (Cat# RC219395) using MegaTran 2.0 (Cat# [TT210002]).

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