

Product datasheet for **RC218045**

Syntabulin (SYBU) (NM_001099747) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syntabulin (SYBU) (NM_001099747) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Syntabulin
Synonyms:	GOLSYN; OCSYN; SNPHL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC218045 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCCCTCCGCGAGAGCAAGGAGCACAGAGTGCAGCATCATGACAAGGAGATTTCTCGAAGCCGAA
 TTCCCGGTTGATTCTTCGGCCCATATGCCCAACAACAGCACAAAGTGTCCCGAGCCTCTGAGTCTCC
 TTTCTCTGAGGAAGAGAGCAGAGAGTTCAACCCAGCAGCTCTGGGCGCTCAGCGAGGACCGTTAGCAGC
 AACAGTCTCTGCTCAGATGACACAGGCTGTCTAGCAGCCAGTCAGTGTCTCTGTGAAGACACCCTCAG
 ATGCTGGAACAGCCCCATTGGCTTTTGCCTGGAAGTATGAAGGCTTACCAGAAAGAAATGCACGAT
 TGGAAATGGTTGGTGAAGGAAGCATTTCAGTCTCTCGATATAAGAAGGAATCAAAGTCAGGCCCTTGTA
 CCAGGTAGTGAAGCTGATTTAGTCTCTGAGCAGCACAGGCAGCATTTCGCTCCTGAGGTCCATATGT
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 GTCACACAAGCCTGGCAGCAGCCATCATCCCCGGGAAAAGGACCTTCTGTCCATGCTGTGCAGGAAT
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 ACAAAGGAAGCGACTGTAGCCCCATCATGAGGCGTTCTGGAAGGTACATGTCTTGCAGGTAAGATCATGG
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 GGTGGATCTCCTGGCTGTGGCTGCCCGTGGTCCCCACGGTTCTGTGGCATTCACTACTCAGAGAGGG
 GGAACGGATCCTGTGATAACATCGGGGCTTGTCTCAGGGGCTGTGCGTGGTGGCTGCATTGCTCC
 GCCGACCCGCTTCCGTATCAAACC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC218045 protein sequence
 Red=Cloning site Green=Tags(s)

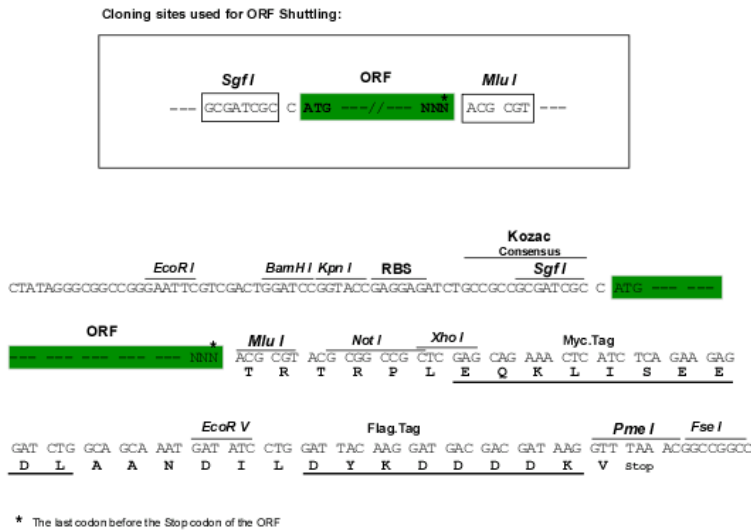
MGPLRESKEHRVQHHDKEISRSRIPRLILRPHMPQQHKVSPASESPFSEESREFNPSSSGRSARTVSS
 NSFCSDDTGCPSSQSVSPVKTPSDAGNSPIGFCPGSDEGFTRKCKTIGMVGEGSIQSSRYKESKSLVK
 PGSEADFSSSSSTGSI SAPEVHMSTAGSKRSSSSRNRPGRSNGASSHKPGSSPSPREKDLLSMLCRN
 QLSPVNIHPSYAPSSPSSNSGSYKGSDCSPIMRRSGRYMSCGENHGVRPPNPEQYL TPLQQKEVTVRHL
 KTKLKESEERRLHERESEI VELKSQLARMREDWIEEECHRVEAQLALKEARKEIKQLKQVIETMRSSLADK
 DKGIQKYFVDINIQNKKLESLLQSMEMAHSGSLRDELCLDFPCDSPEKSLTLNPPLDTMADGLSLEEQT
 GEGADRELLVGDSIANSTDLFDEIVTATTTESGDLELVHSTPGANVLELLPIVMGQEEGSVYVERAVQTD
 VVPYSPAISELIQSVLQKLQDPCPSSLASPDSEPDMSFPELSALVVDLTPRNPNSAILLSPVETPY
 ANVDAEVHANRLMRELDFAACVEERLDGVIPLARGGVVRQYWSSSFLVDLLAVAAPVVPTVLWAFSTQRG
 GTDPVYNI GALLRGCCVVALHSLRRTAFRIKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8071_h11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001099747

ORF Size: 1986 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_001099747.2](#)

RefSeq Size: 3005 bp

RefSeq ORF: 1989 bp

Locus ID: 55638

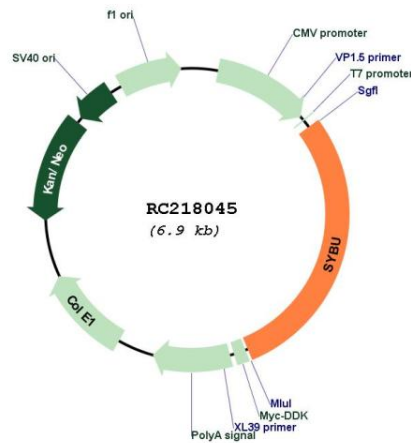
UniProt ID: [Q9NX95](#)

Cytogenetics: 8q23.2

MW: 72.3 kDa

Gene Summary: Syntabulin/GOLSYN is part of a kinesin motor-adaptor complex that is critical for the anterograde axonal transport of active zone components and contributes to activity-dependent presynaptic assembly during neuronal development (Cai et al., 2007 [PubMed 17611281]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC218045