

Product datasheet for **RC217946**

Syntabulin (SYBU) (NM_001099745) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syntabulin (SYBU) (NM_001099745) 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:

>RC217946 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGCCCTCCGCGAGAGCAAGAAGGAGCACAGAGTGCAGCATCATGACAAGGAGATTTCTCGAAGCC
GAATTCGCCGTTGATTCTCGGCCCATATGCCCAACAACAGCACAAAGTGTCGCCAGCCTCTGAGTC
TCCTTTCTCTGAGGAAGAGAGCAGAGAGTTCAACCCAGCAGCTCTGGCGCTCAGCGAGGACCGTTAGC
AGCAACAGCTTCTGCTCAGATGACACAGGCTGTCTAGCAGCCAGTCAGTGTCTCCTGTGAAGACACCTT
CAGATGCTGGAACAGCCCCATTGGCTTTTGCCTGGAAGTGATGAAGGCTTCACCAGAAAGAAATGCAC
GATTGGAATGGTTGGTGAAGGAAGCATTAGTCTCTCGATATAAGAAGGAATCAAAGTCAGGCCTTGTG
AAACCAGGTAGTGAAGCTGATTTAGTCTCTGAGCAGCACAGGCAGCATTTCGCTCTGAGGTCCATA
TGTCGACTGCGGAAGCAAGCGTCTTCTTTCACGCAATCGAGTCTCATGGCGGAGTAATGGAGC
TTCGTCACACAAGCCTGGCAGCAGCCATCATCCCGCGGAAAAGGACCTTCTGTCCATGCTGTGCAGG
AATCAGCTGAGCCCTGTCAATATCCATCCAGTTATGCACCTTCTCCCAAGCAGTAGCAACTCAGGCT
CCTACAAAGGAAGCGACTGTAGCCCATCATGAGGCGTTCTGGAAGGTACATGTCTTGCGGTGAAAATCA
TGGTGTGACAGCCCCAAACCCAGAGCAGTATTTGACTCCACTGCAGCAGAAAGAGGTGACAGTGAGACAC
CTCAAAACCAAGCTGAAGGAATCTGAGCGCCGACTCCATGAAAGGGAAAGTGAATCGTGGAGCTTAAGT
CCCAGCTGGCCCGCATGCGAGAGGACTGGATTGAGGAGGAGTGTACCCGGTAGAGGCCAGTTGGCACT
CAAAGAAGCCAGGAAAGAGATTAACAGCTCAACAGGTATCGAAACCATGCGGAGCAGCTTGGCTGAT
AAAGATAAAGGCATTAGAAATATTTGTGGACATAAACATCCAAAACAAGAAGCTGGAGTCTCTCCTTC
AGAGCATGGAGATGGCACACAGTGGCTCTCTGAGGGACGAACTGTGCTAGACTTCCATGTGATTCCTCC
AGAGAAGAGCTTAACCTCAACCCCTCTTGACACAATGGCAGATGGGTTATCTCTGGAAGAGCAGGTC
ACGGGGGAAGGGGCTGACAGGGAGCTACTGGTAGGAGATAGCATAGCCAACAGCACAGATTTGTTGATG
AGATAGTGACAGCCACCACCACAGAATCTGGTACCTGGAGCTTGTGCATTCCACCCCTGGGGCTAACGT
CCTGGAGCTGCTGCCATAGTCAATGGTTCAGGAGGAGGGCAGTGTGGTGGTGGAGCGAGCCGTTACAGAC
GACGTGGTGCCTACAGCCAGCCATCTCAGAGCTCATTAGAGTGTGCTGCAGAAGCTCCAGGACCCCT
GTCCTCGAGCTTGGCGTCCCCTGATGAGTCTGAACCAGACTCGATGGAGAGCTTCCAGAGTCCCTCTC
TGCTTAGTGGTTGATTTAACTCCAAGAAATCCAAACTCAGCCATCCTTTTGTCTCCCGTGGAGACCCCT
TACGCAATGTGGATGCAGAAGTTCATGCAAAACCGCTCATGAGAGAGCTGGATTTTGCAGCCTGCGTGG
AAGAGAGTTGGATGGTGTATCCCACTGGCTCGCGGGGGCGTCTGTGAGGCACTACTGGAGCAGCAGCTT
CCTGGTGGATCTCCTGGCTGTGGCTGCCCGTGGTCCCACGGTCTGTGGGCATTCACTACTCAGAGA
GGGGGAACGGATCCTGTGTATAACATCGGGCCTTGTCTCAGGGGCTGTTGCGTGGTTGCCCTGCATTGCG
TCCGCGCACCGCTTCCGTATCAAAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC217946 protein sequence
Red=Cloning site Green=Tags(s)

MGPLRESKKEHRVQHHDKEISRSRIPRLILRPHMPQQQHKVSPASESPFSEESREFNPSSSGRSARTVS
 SNSFCSDDTGCPSSQSVSPVKTPSDAGNSPIGFPCGSDEGFTTRKCTIGMVGEGSIQSSRYKESKSGLV
 KPGSEADFSSSSSTGSIISAPEVHMSTAGSKRSSSRNRGPHGRSNGASSHKPGSSPSPREKDLLSMLCR
 NQLSPVNIHPSYAPSSPSSNSGSYKGSDCSPIMRRSGRYMSCGENHGVPPNPEQYLTPLQQKEVTVRH
 LKTKLKESERRLHERESEIVELKSQLARMREDWIEEECHRVEAQLALKEARKEIKQLKQVIETMRSSLAD
 KDKGIQKYFVDINIQNKKLESLQSMEMAHSGSLRDELCLDFPCDSPEKSLTLNPPLDTMADGLSLEEQV
 TGEADRELLVGDSIANSTDLFDEIVTATTESGDLELVHSTPGANVLELLPIVMQEEGSSVVERAVQT
 DVVYPSPAISELIQSVLQKLQDPCPSSLASPDESEPDMSFPELSALVVDLTPRNPNSAILLSPVETP
 YANVDAEVHANRLMRELDFAACVEERLDGVIPLARGGVVRQYWSSFLVDLLAVAAPVVPTVLWAFSTQR
 GGTDPPVYIGALLRGCCVVALHSLRRTAFRIKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8016_a01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001099745

ORF Size: 1989 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_001099745.2](#)

RefSeq Size: 3087 bp

RefSeq ORF: 1992 bp

Locus ID: 55638

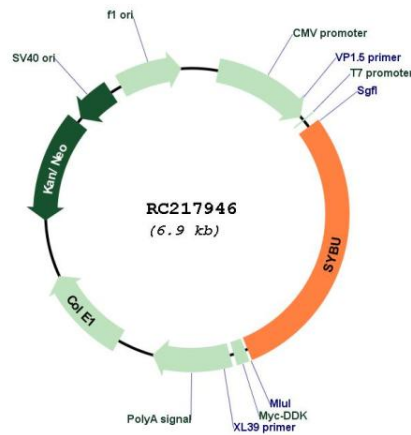
UniProt ID: [Q9NX95](#)

Cytogenetics: 8q23.2

MW: 72.4 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 RC217946