

## Product datasheet for **RC218109**

### Syntabulin (SYBU) (NM\_001099749) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Syntabulin (SYBU) (NM_001099749) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SYBU
Synonyms:	GOLSYN; OCSYN; SNPHL
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC218109 representing NM\_001099749  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTTGGTGAAGGAAGCATTAGTCTCTCGATATAAGAAGGAATCAAAGTCAGGCCTTGTGAAACCAG  
 GTAGTGAAGCTGATTTTAGCTCCTCGAGCAGCACAGGCAGCATTCCGCTCCTGAGGTCCATATGTCGAC  
 TGCGGGAAGCAAGCGGTCTTCTTCTTACGCAATCGAGGTCTCATGGGCGGAGTAATGGAGCTTCGTCA  
 CACAAGCCTGGCAGCAGCCCATCATCCCGCGGAAAAGGACCTTCTGTCCATGCTGTGCAGGAATCAGC  
 TGAGCCCTGTCAATATCCATCCCAGTTATGCACCTTCTCCCAAGCAGTAGCAACTCAGGCTCCTACAA  
 AGGAAGCGACTGTAGCCCATCATGAGGCGTCTGGAAGGTACATGTCTTGCGGTGAAAATCATGGTGTC  
 AGACCCCAAACCCAGAGCAGTATTTGACTCCACTGCAGCAGAAAGAGGTGACAGTGAGACACCTCAAAA  
 CCAAGCTGAAGGAATCTGAGCGCCGACTCCATGAAAGGGAAAGTAAATCGTGGAGCTTAAAGTCCCAGCT  
 GGCCCGCATGCGAGAGGACTGGATTGAGGAGGAGTGTACCGGGTAGAGGCCAGTTGGCACTCAAAGAA  
 GCCAGGAAAGAGATTAACAGCTCAAACAGGTCAATCGAAACCATGCGGAGCAGCTTGGCTGATAAAGATA  
 AAGGCATTGAGAAATATTTGTGGACATAAACATCCAAAACAAGAAGCTGGAGTCTCTCCTTCAGAGCAT  
 GGAGATGGCACACAGTGGCTCTCTGAGGGACGAACTGTGCCTAGACTTTCCATGTGATCCCCAGAGAAG  
 AGCTTAAACCTCAACCCCTCTTGACACAATGGCAGATGGGTTATCTCTGGAAGAGCAGGTACCGGGG  
 AAGGGGCTGACAGGGAGCTACTGGTAGGAGATAGCATAGCCAACAGCACAGATTTGTTCCGATGAGATAGT  
 GACAGCCACCACAGAATCTGGTGACCTGGAGCTTGTGCATCCACCCCTGGGCTAACGTCTGGAG  
 CTGCTGCCCATAGTCATGGGTGAGGAGGAGGCGAGTGTGGTGGTGGAGCGAGCCGTTGAGACCGACGTGG  
 TGCCCTACAGCCAGCCATCTCAGAGCTCATTAGAGTGTGCTGCAGAAGCTCCAGGACCCCTGTCCTC  
 GAGCTTGGCGTCCCTGATGAGTCTGAACCAGACTCGATGGAGAGCTTCCAGAGTCCCTCTGCTCCTTA  
 GTGGTTGATTTAACTCCAAGAAATCCAACCTCAGCCATCCTTTTGTCTCCCGTGGAGACCCCTACGCCA  
 ATGTGGATGCAGAAGTTCATGCAAACCGCCTCATGAGAGAGCTGGATTTTGCAGCCTGCGTGAAGAGAG  
 GTTGGATGGTGCATCCCACTGGCTCGCGGGGCGCTGAGGAGTACTGGAGCAGCAGCTTCTGGTG  
 GATCTCTGGCTGTGGCTGCCCCGTTGTTCCACGGTCTGTGGGCATTAGTACTCAGAGAGGGGGAA  
 CGGATCCTGTGTATAACATCGGGGCTTGTCTAGGGGCTGTTGCGTGGTGGCCTGCATTCGCTCCGCC  
 CACCGCTTCCGTATCAAACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC218109 representing NM\_001099749  
 Red=Cloning site Green=Tags(s)

MVGEQSIQSSRYKKEKSKGLVKPGSEADFSSSSSTGSI SAPEVHMSTAGSKRSSSRNRGPHGRSNGASS  
 HKPGSSPSSPREKDLLSMLCRNQLSPVNIHPSYAPSSPSSNSGSYKGSDCSPIMRRSGRYMSCGENHGV  
 RPPNPEQYL TPLQKEVTVRHLKTKLKE SERRLHERESEIVELKSQLARMREDWIEEECHRVEAQLALKE  
 ARKEIKLQKQVIETMRSSLADKDKGIQYFVDINIQNKLESLLQSMEMAHSGSLRDELCLDFPCDSPEK  
 SLTLNPPLDTMADGLSLEEQVTGEGADRELLVGDSIANSTDLFDEIVTATTTESGDLELVHSTPGANVLE  
 LLPIVMGEQEEGSVVVERAVQTDVVPYSPAISELIQSVLQKLQDPCSSLASPDESEPDSMESFPESLSAL  
 VVDLTPRNPSAILLSPVETPYANVDAEVHANRLMRELDFAACVEERLDGVIPLARGGVVRQYWSSSFLV  
 DLLAVAAPVVPTVLWAFSTQRGGTDPVYINIGALLRGCCVALHSLRRTAFRIKT

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

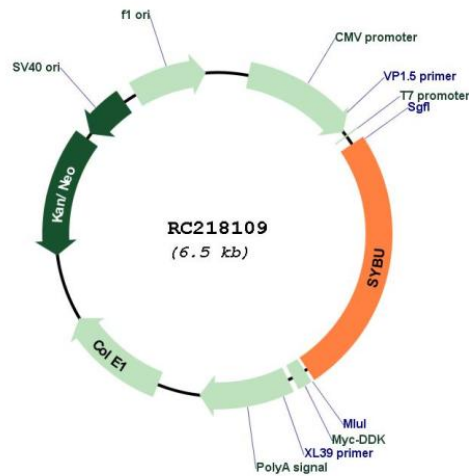
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



<b>ACCN:</b>	NM_001099749
<b>ORF Size:</b>	1632 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001099749.2</a>
<b>RefSeq Size:</b>	2722 bp
<b>RefSeq ORF:</b>	1635 bp
<b>Locus ID:</b>	55638
<b>UniProt ID:</b>	<a href="#">Q9NX95</a>
<b>Cytogenetics:</b>	8q23.2
<b>MW:</b>	59.4 kDa
<b>Gene Summary:</b>	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]