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# Product datasheet for RC218165

## Syntabulin (SYBU) (NM_001099748) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Syntabulin (SYBU) (NM_001099748) 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) |

**ORF Nucleotide Sequence:**

>RC218165 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGCCCCTCCGCGAGAGCAAGAAGGAGCACAGAGTGCAGCATCATGACAAGGAGATTTCTCGAAGCC
GAATTCCCCGGTTGATTCTTCGGCCCCATATGCCCCAACAACAGCACAAAGTGTCCCCAGCCTCTGAGTC
TCCTTTCTCTGAGGAAGAGAGCAGAGAGTTCAACCCCAGCAGCTCTGGGCGCTCAGCGAGGACCGTTAGC
AGCAACAGCTTCTGCTCAGATGACACAGGCTGTCCTAGCAGCCAGTCAGTGTCTCCTGTGAAGACACCCT
CAGATGCTGGAAACAGCCCCATTGGCTTTTGCCCTGGAAGTGATGAAGGCTTCACCAGAAAGAAATGCAC
GATTGGAATGGTTGGTGAAGGAAGCATTCAGTCCTCTCGATATAAGAAGGAATCAAAGTCAGGCCTTGTG
AAACCAGGTAGTGAAGCTGATTTTAGCTCCTCGAGCAGCACAGGCAGCATTTCCGCTCCTGAGGTCCATA
TGTCGACTGCGGGAAGCAAGCGGTCTTCTTCTTCACGCAATCGAGGTCCTCATGGGCGGAGTAATGGAGC
TTCGTCACACAAGCCTGGCAGCAGCCCATCATCCCCGCGGGAAAAGGACCTTCTGTCCATGCTGTGCAGG
AATCAGCTGAGCCCTGTCAATATCCATCCCAGTTATGCACCTTCTTCCCCAAGCAGTAGCAACTCAGGCT
CCTACAAAGGAAGCGACTGTAGCCCCATCATGAGGCGTTCTGGAAGGTACATGTCTTGCGGTGAAAATCA
TGGTGTCAGACCCCCAAACCCAGAGCAGTATTTGACTCCACTGCAGCAGAAAGAGGTGACAGTGAGACAC
CTCAAAACCAAGCTGAAGGAATCTGAGCGCCGACTCCATGAAAGGGAAAGTGAAATCGTGGAGCTTAAGT
CCCAGCTGGCCCGCATGCGAGAGGACTGGATTGAGGAGGAGTGTCACCGGGTAGAGGCCCAGTTGGCACT
CAAAGAAGCCAGGAAAGAGATTAAACAGCTCAAACAGGTCATCGAAACCATGCGGAGCAGCTTGGCTGAT
AAAGATAAAGGCATTCAGAAATATTTTGTGGACATAAACATCCAAAACAAGAAGCTGGAGTCTCTCCTTC
AGAGCATGGAGATGGCACACAGTGGCTCTCTGAGGGACGAACTGTGCCTAGACTTTCCATGTGATTCCCC
AGAGAAGAGCTTAACCCTCAACCCCCCTCTTGACACAATGGCAGATGGGTTATCTCTGGAAGAGCAGGTC
ACGGGGGAAGGGGCTGACAGGGAGCTACTGGTAGGAGATAGCATAGCCAACAGCACAGATTTGTTCGATG
AGATAGTGACAGCCACCACCACAGAATCTGGTGACCTGGAGCTTGTGCATTCCACCCCTGGGGCTAACGT
CCTGGAGCTGCTGCCCATAGTCATGGGTCAGGAGGAGGGCAGTGTGGTGGTGGAGCGAGCCGTTCAGACC
GACGTGGTGCCCTACAGCCCAGCCATCTCAGAGCTCATTCAGAGTGTGCTGCAGAAGCTCCAGGACCCCT
GTCCCTCGAGCTTGGCGTCCCCTGATGAGTCTGAACCAGACTCGATGGAGAGCTTCCCAGAGTCCCTCTC
TGCCTTAGTGGTTGATTTAACTCCAAGAAATCCAAACTCAGCCATCCTTTTGTCTCCCGTGGAGACCCCC
TACGCCAATGTGGATGCAGAAGTTCATGCAAACCGCCTCATGAGAGAGCTGGATTTTGCAGCCTGCGTGG
AAGAGAGGTTGGATGGTGTCATCCCACTGGCTCGCGGGGGCGTCGTGAGGCAGTACTGGAGCAGCAGCTT
CCTGGTGGATCTCCTGGCTGTGGCTGCCCCCGTGGTCCCCACGGTTCTGTGGGCATTCAGTACTCAGAGA
GGGGGAACGGATCCTGTGTATAACATCGGGGCCTTGCTCAGGGGCTGTTGCGTGGTTGCCCTGCATTCGC
TCCGCCGCACCGCCTTCCGTATCAAAACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC218165 protein sequence
Red=Cloning site Green=Tags(s)

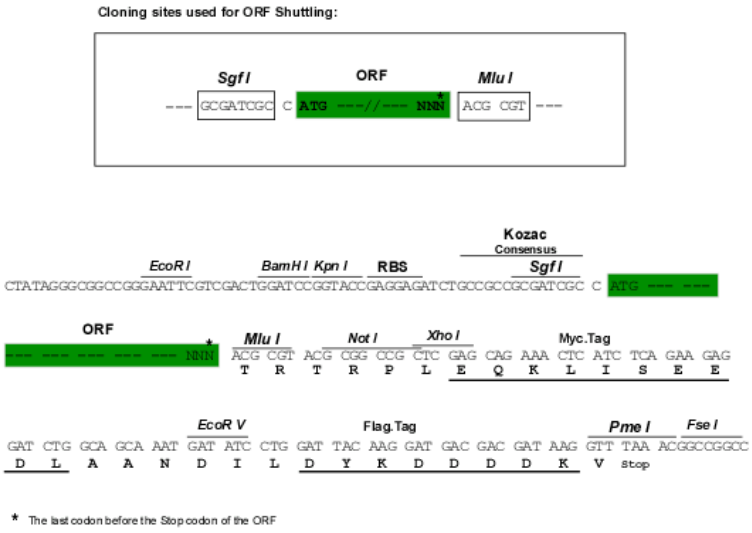
MGPLRESKKEHRVQHHDKEISRSRIPRLILRPHMPQQQHKVSPASESPFSEEESREFNPSSSGRSARTVS
SNSFCSDDTGCPSSQSVSPVKTPSDAGNSPIGFCPGSDEGFTRKKCTIGMVGEGSIQSSRYKKESKSGLV
KPGSEADFSSSSSTGSISAPEVHMSTAGSKRSSSSRNRGPHGRSNGASSHKPGSSPSSPREKDLLSMLCR
NQLSPVNIHPSYAPSSPSSSNSGSYKGSDCSPIMRRSGRYMSCGENHGVRPPNPEQYLTPLQQKEVTVRH
LKTKLKESERRLHERESEIVELKSQLARMREDWIEEECHRVEAQLALKEARKEIKQLKQVIETMRSSLAD
KDKGIQKYFVDINIQNKKLESLLQSMEMAHSGSLRDELCLDFPCDSPEKSLTLNPPLDTMADGLSLEEQV
TGEGADRELLVGDSIANSTDLFDEIVTATTTESGDLELVHSTPGANVLELLPIVMGQEEGSVVVERAVQT
DVVPYSPAISELIQSVLQKLQDPCPSSLASPDESEPDSMESFPESLSALVVDLTPRNPNSAILLSPVETP
YANVDAEVHANRLMRELDFAACVEERLDGVIPLARGGVVRQYWSSSFLVDLLAVAAPVVPTVLWAFSTQR
GGTDPVYNIGALLRGCCVVALHSLRRTAFRIKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_001099748

**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_001099748.1, NP_001093218.1

**RefSeq Size:** 3008 bp

**RefSeq ORF:** 1992 bp

**Locus ID:** 55638

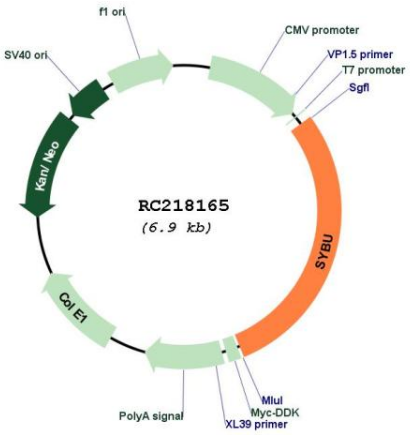
**UniProt ID:** Q9NX95

**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 RC218165