

Product datasheet for **RC217999**

Syntabulin (SYBU) (NM_001099746) Human Tagged ORF Clone

Product data:

| | |
|--------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Syntabulin (SYBU) (NM_001099746) 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:

>RC217999 representing NM_001099746
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTTGGTGAAGGAAGCATTAGTCTCTCGATATAAGAAGGAATCAAAGTCAGGCCTTGTGAAACCAG
 GTAGTGAAGCTGATTTTAGTCTCCTCGAGCAGCACAGGCAGCATTTCGGCTCCTGAGGTCCATATGTCGAC
 TGCGGGAAGCAAGCGGTCTTCTTCTTACGCAATCGAGGTCTCATGGGCGGAGTAATGGAGCTTCGTCA
 CACAAGCCTGGCAGCAGCCCATCATCCCGCGGAAAAGGACCTTCTGTCCATGTGTGCAGGAATCAGC
 TGAGCCCTGTCAATATCCATCCCAGTTATGCACCTTCTCCCAAGCAGTAGCAACTCAGGCTCCTACAA
 AGGAAGCGACTGTAGCCCATCATGAGGCGTCTGGAAGGTACATGTCTTGCGGTGAAAATCATGGTGTC
 AGACCCCAAACCCAGAGCAGTATTTGACTCCACTGCAGCAGAAAGAGGTGACAGTGAGACACCTCAAAA
 CCAAGCTGAAGGAATCTGAGCGCCGACTCCATGAAAGGGAAAGTAAATCGTGGAGCTTAAGTCCCAGCT
 GGCCCGCATGCGAGAGGACTGGATTGAGGAGGAGTGTACCGGGTAGAGGCCAGTTGGCACTCAAAGAA
 GCCAGGAAAGAGATTAACAGCTCAAACAGGTCAATCGAAACCATGCGGAGCAGCTTGCGTATAAAGATA
 AAGGCATTGAGAAATATTTGTGGACATAAACATCCAAAACAAGAAGCTGGAGTCTCTCCTTCAGAGCAT
 GGAGATGGCACACAGTGGCTCTCTGAGGGACGAACTGTGCCTAGACTTTCCATGTGATTCACAGAGAAG
 AGCTTAACCCCAACCCCTCTTGACACAATGGCAGATGGGTTATCTCTGGAAGAGCAGGTACCGGGGG
 AAGGGGCTGACAGGGAGCTACTGGTAGGAGATAGCATAGCCAACAGCACAGATTTGTTCCATGAGATAGT
 GACAGCCACCACAGAATCTGGTGACCTGGAGCTTGTGCATCCACCCCTGGGGCTAACGTCTGGAG
 CTGCTGCCCATAGTCATGGGTGAGGAGGAGGCGAGTGTGGTGGTGGAGCGAGCCGTTGAGACCGAGTGG
 TGCCCTACAGCCAGCCATCTCAGAGCTCATTAGAGTGTGCTGCAGAAGCTCCAGGACCCCTGTCCTC
 GAGCTTGGCGTCCCCTGATGAGTCTGAACCAGACTCGATGGAGAGCTTCCAGAGTCCCTCTGCGCTTA
 GTGGTTGATTTAACTCCAAGAAATCCAACCTCAGCCATCCTTTTGTCTCCCGTGGAGACCCCTACGCCA
 ATGTGGATGCAGAAGTTCATGCAAACCGCCTCATGAGAGAGCTGGATTTTGCAGCCTGCGTGAAGAGAG
 GTTGGATGGTGCATCCCACTGGCTCGCGGGGGCGTCTGAGGCAGTACTGGAGCAGCAGCTTCTGGTG
 GATCTCTGGCTGTGGCTGCCCCGTGGTCCCCACGGTCTGTGGGCATTAGTACTCAGAGAGGGGGAA
 CGGATCTGTGTATAACATCGGGGCTTGTCTAGGGGCTGTTGCGTGGTGGCCCTGCATTCGCTCCGCC
 CACCGCTTCCGTATCAAACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC217999 representing NM_001099746
 Red=Cloning site Green=Tags(s)

MVGEQSIQSSRYKKEKSKGLVKPGSEADFSSSSSTGSI SAPEVHMSTAGSKRSSSRNRGPHGRSNGASS
 HKPGSSPSSPREKDLLSMLCRNQLSPVNIHPSYAPSSPSSNSGSYKGSDCSPIMRRSGRYMSCGENHGV
 RPPNPEQYL TPLQKEVTVRHLKTKLKESEERRLHERESEIVELKSQLARMREDWIEECHRVEAQLALKE
 ARKEIKQLKQVIETMRSSLADKDKGIQYFVDINIQNKLESLLQSMEMAHSGSLRDELCLDFPCDSPEK
 SLTLNPPLDTMADGLSLEEQVTGEGADRELLVGDSIANSTDLFDEIVTATTTESGDLELVHSTPGANVLE
 LLPIVMGEQEEGSVVVERAVQTDVVPYSPAISELIQSVLQKLQDPCPSSLASPDESEPDSMESFPESLSAL
 VVDLTPRNPSAILLSPVETPYANVDAEVHANRLMRELDFAACVEERLDGVIPLARGGVVRQYWSSSFLV
 DLLAVAAPVVPTVLWAFSTQRGGTDPVYINIGALLRGCCVALHSLRRTAFRIKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

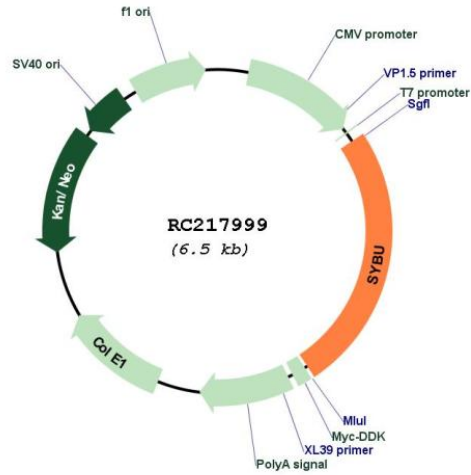
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



| | |
|-------------------------------|---|
| ACCN: | NM_001099746 |
| ORF Size: | 1632 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: | <ol style="list-style-type: none">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_001099746.1 , NP_001093216.1 |
| RefSeq Size: | 2801 bp |
| RefSeq ORF: | 1635 bp |
| Locus ID: | 55638 |
| UniProt ID: | Q9NX95 |
| Cytogenetics: | 8q23.2 |
| MW: | 59.4 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] |