

Product datasheet for **RG217999**

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:	TurboGFP
Symbol:	SYBU
Synonyms:	GOLSYN; OCSYN; SNPHL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG217999 representing NM_001099746
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTGGTGAAGGAAGCATTAGTCTCTCGATATAAGAAGGAATCAAAGTCAGGCCTTGTGAAACCAG
 GTAGTGAAGCTGATTTTAGCTCCTCGAGCAGCACAGGCAGCATTTCGGCTCCTGAGGTCCATATGTCGAC
 TGGCGGAAGCAAGCGGTCTTCTTCTTACGCAATCGAGGTCTCATGGGCGGAGTAAATGGAGCTTCGTCA
 CACAAGCCTGGCAGCAGCCCATCATCCCGCGGAAAAGGACCTTCTGTCCATGTGTGCAGGAATCAGC
 TGAGCCCTGTCAATATCCATCCCAGTTATGCACCTTCTCCCAAGCAGTAGCAACTCAGGCTCCTACAA
 AGGAAGCGACTGTAGCCCATCATGAGGCGTCTGGAAGGTACATGTCTTGCGGTGAAAATCATGGTGTC
 AGACCCCAAACCCAGAGCAGTATTTGACTCCACTGCAGCAGAAAGAGGTGACAGTGAGACACCTCAAAA
 CCAAGCTGAAGGAATCTGAGCGCGACTCCATGAAAGGGAAAGTAAAATCGTGGAGCTTAAAGTCCAGCT
 GGCCCGCATGCGAGAGGACTGGATTGAGGAGGAGTGTACCGGGTAGAGGCCAGTTGGCACTCAAAGAA
 GCCAGGAAAGAGATTAACAGCTCAAACAGGTCAATCGAAACCATGCGGAGCAGCTTGCGTATAAAGATA
 AAGGCATTCAGAAATATTTGTGGACATAAACATCCAAAACAAGAAGCTGGAGTCTCTCCTTCAGAGCAT
 GGAGATGGCACACAGTGGCTCTCTGAGGGACGAACTGTGCCTAGACTTTCCATGTGATTCACAGAGAAG
 AGCTTAAACCTCAACCCCTCTTGACACAATGGCAGATGGGTTATCTCTGGAAGAGCAGGTACCGGGG
 AAGGGGCTGACAGGGAGCTACTGGTAGGAGATAGCATAGCCAACAGCACAGATTTGTTTCGATGAGATAGT
 GACAGCCACCACAGAATCTGGTGACCTGGAGCTTGTGCATCCACCCCTGGGCTAACGTCTGGAG
 CTGCTGCCATAGTCATGGTCTAGGAGGAGGCGAGTGTGGTGGTGGAGCGAGCCGTTAGACCCGACGTGG
 TGCCCTACAGCCAGCCATCTCAGAGCTCATTAGAGTGTGCTGCAGAAGCTCCAGGACCCCTGTCCCTC
 GAGCTTGGCGTCCCTGATGAGTCTGAACAGACTCGATGGAGAGCTTCCAGAGTCCCTCTCTGCCTTA
 GTGGTTGATTTAACTCCAAGAAATCCAAACTCAGCCATCCTTTTGTCTCCCGTGGAGACCCCTACGCCA
 ATGTGGATGCAGAAGTTCATGCAAACCGCCTCATGAGAGAGCTGGATTTTGCAGCCTGCGTGAAGAGAG
 GTTGGATGGTGCATCCCACTGGCTCGCGGGGGCGTCTGAGGCAGTACTGGAGCAGCAGCTTCTGGTG
 GATCTCTGGCTGTGGCTGCCCCGTGGTCCACGGTCTGTGGGCATTAGTACTCAGAGAGGGGGAA
 CGGATCTGTGTATAACATCGGGGCTTGTCTAGGGGCTGTTGCGTGGTGGCCATTCGCTCCGCC
 CACCGCTTCCGTATCAAACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG217999 representing NM_001099746
 Red=Cloning site Green=Tags(s)

MVGEQSIQSSRYKKEKSKGLVKPGSEADFSSSSSTGSI SAPEVHMSTAGSKRSSSSRNRPGRHNSGASS
 HKPGSSPSSPREKDLLSMLCRNQLSPVNIHPSYAPSSPSSNSGSYKGSDCSPIMRRSGRYMSCGENHGV
 RPPNPEQYLTPQQKEVTVRHLKTKLKESEERRLHERESEIVELKSQLARMREDWIEEECHRVEAQLALKE
 ARKEIKQLKQVIETMRSSLADKDKGIQKYFVDINIQNKKLESLLQSMEMAHSGSLRDELCLDFPCDSPEK
 SLTLNPPPLDTMADGLSLEEQVTGEGADRELLVGDSIANSTDLFDEIVTATTTESGDLELVHSTPGANVLE
 LLPVIMGQEEGSSVVVERAVQTDVVPYSPAI SELIQSVLQKLQDPCPSSLASPDESEPDSMESFPESLSAL
 VVDLTPRNPNSAILLSPVETPYANVDAEVHANRLMRELDFAACVEERLDGVIPLARGGVVRQYWSSSFLV
 DLLAVAAPVVPTVLWAFSTQRGGTDPVYINIGALLRGCCVVALHSLRRTAFRIKT

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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
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]