

## Product datasheet for **RG218387**

### Syntabulin (SYBU) (NM\_001099753) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Syntabulin (SYBU) (NM_001099753) 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:

>RG218387 representing NM\_001099753  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGGGCCCTCCGCGAGAGCAAGGAGCACAGAGTGCAGCATCATGACAAGGAGATTTCTCGAAGCCGAA  
TTCCCCGTTGATTCTTCGGCCCATATGCCCAACAACAGCACAAAGTGTCCCCAGCCTCTGAGTCTCC  
TTTCTCTGAGGAAGAGAGCAGAGAGTTCAACCCAGCAGCTCTGGGCGCTCAGCGAGGACCGTTAGCAGC  
AACAGTCTCTGCTCAGATGACACAGGCTGTCTAGCAGCCAGTCAGTGTCTCTGTGAAGACACCCTCAG  
ATGCTGGAACAGCCCCATTGGCTTTTGCCTGGAAGTATGAAGGCTTACCAGAAAGAAATGCACGAT  
TGGAAATGGTTGGTGAAGGAAGCATTTCAGTCTCTCGATAAAGAAGGAATCAAAGTCAGGCTTGTGAAA  
CCAGGTAGTGAAGCTGATTTTAGTCTCTGAGCAGCACAGGCAGCATTTCGCTCCTGAGGTCCATATGT  
CGACTCGGGGAAGCAAGCGGTCTTCTTTCACGCAATCGAGTCTCATGGGCGGAGTAATGGAGCTTC  
GTCACACAAGCCTGGCAGCAGCCATCATCCCCGGGAAAAGGACCTTCTGTCCATGCTGTGCAGGAAT  
CAGCTGAGCCCTGCAATATCCATCCCAGTTATGCACCTTCTTCCCAAGCAGTAGCAACTCAGGCTCCT  
ACAAAGGAAGCGACTGTAGCCCCATCATGAGGCGTTCTGGAAGGTACATGTCTTGCGGTGAAAATCATGG  
TGTGACACCCCAAAACCAGAGCAGTATTTGACTCCACTGCAGCAGAAAGAGGTGACAGTGAACACCTC  
AAAACCAAGTGAAGGAATCTGAGCGCCGACTCCATGAAAGGGAAAGTGAATCGTGGAGCTTAAGTCCC  
AGCTGGCCCGCATGCGAGAGGACTGGATTGAGGAGGAGTGTACCCGGGTAGAGGCCAGTTGGCACTCAA  
AGAAGCCAGGAAAGAGATTAACAGCTCAAACAGTTCATCGAAACCATGCGGAGCAGCTTGGCTGATAAA  
GATAAAGGCATTCAGAAATATTTTGTGGACATAAACATCCAAAACAAGAAGCTGGAGTCTCTCCTTCAGA  
GCATGGAGATGGCACACAGTGGCTCTCTGAGGGACGAACTGTGCCTAGACTTTCCATGTGATTTCCCA  
GAAGAGCTTAACCCTCAACCCCTCTTGACACAATGGCAGATGGGTTATCTCTGGAAGAGCAGGTCACG  
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TAGTGACAGCCACCACAGAACTCTGGTGACCTGGAGCTTGTGCATTCCACCCCTGGGGCTAACGTCCT  
GGAGCTGCTGCCATAGTCATGGGTGAGGAGGGCAGTGTGGTGGTGGAGCGAGCCGTTGAGCCGAC  
GTGGTGCCTACAGCCAGCCATCTCAGAGCTCATTGAGAGTGTGCTGCAGAAGCTCCAGGACCCCTGTC  
CCTCGAGCTTGGCGTCCCCTGATGAGTCTGAACCAGACTCGATGGAGAGCTTCCAGAGTCCCTCTGTC  
CTTAGTGGTTGATTTAACTCCAAGAAATCAAACCTCAGCCATCCTTTTGTCTCCCGTGGAGACCCCTAC  
GCCAATGTGGATGCAGAAGTTCATGCAAACCGCTCATGAGAGAGCTGGATTTTGCAGCCTGCGTGAAG  
AGAGGTTGGATGGTGTATCCCACTGGCTCGCGGGGGCGTGTGAGGAGTACTGGAGCAGCAGCTTCTCT  
GGTGGATCTCCTGGCTGTGGCTGCCCCGTTGGTCCCCACGTTCTGTGGGCAATCAGTACTCAGAGAGGG  
GGAACGGATCCTGTGTATAACATCGGGGCTTGTCTCAGGGGCTGTGCGTGGTGGCTGCATTGCTCC  
GCCGACCCGCTTCCGTATCAAACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG218387 representing NM\_001099753  
 Red=Cloning site Green=Tags(s)

MGPLRESKEHRVQHHDKIEISRSRIPRLILRPHMPQQQHKVSPASESPFSEESREFNPSSSGRSARTVSS  
 NSFCSDDTGPCSSQSVSPVKTPSDAGNSPIGFCPGSDEGFTRKCTIGMVGEGSIQSSRYKESKSLVK  
 PGSEADFSSSSSTGSI SAPEVHMSTAGSKRSSSSRNRRGPHGRSNGASSHKPGSSPSPREKDLLSMLCRN  
 QLSPVNIHPSYAPSSPSSNSGSYKGSDCSPIMRRSGRYMSCGENHGVRPPNPEQYLTPLQQKEVTVRHL  
 KTKLKESERRLHERESEIVELKSQLARMREDWIEEECHRVEAQLALKEARKEIKQLKQVIETMRSSLADK  
 DKGIQKYFVDINIQNKKLESLLQSMEMAHSGSLRDELCLDFPCDSPEKSLTLNPPLDTMADGLSLEEQVT  
 GEGADRELLVGDSIANSTDLFDEIVTATTTESGDLELVHSTPGANVLELLPIVMGQEEGVSVVVERAVQTD  
 VVPYSPAISELIQSVLQKLQDPCPSSLASPDESEPDSMESFPESLSALVVDLTPRNPNSAILLSPVETPY  
 ANVDAEVHANRLMRELDFAACVEERLDGVIPLARGVVRQYWSSSFLVDLLAVAAPVVPTVLWAFSTQRG  
 GTDPVYNI GALLRGCCVVALHSLRRTAFRIKT

TRTRPLE - GFP Tag - V

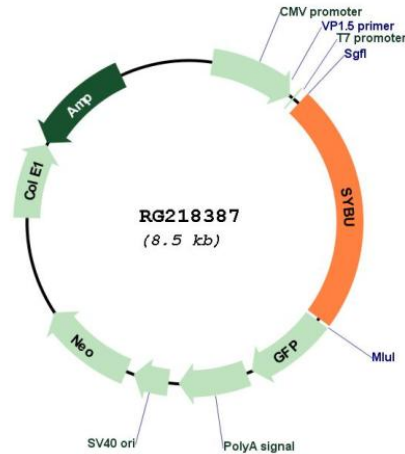
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



## Plasmid Map:



ACCN: NM\_001099753

ORF Size: 1986 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\\_001099753.2](#)

RefSeq Size: 2895 bp

RefSeq ORF: 1989 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]