

## Product datasheet for **RG218498**

### Syntabulin (SYBU) (NM\_001099756) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Syntabulin (SYBU) (NM_001099756) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Syntabulin
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:**

>RG218498 representing NM\_001099756  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCCAATTTGAGAAGGAGCACAGAGTGCAGCATCATGACAAGGAGATTTCTCGAAGCCGAATCCCC  
 GGTTGATTCTTCGGCCCATATGCCCAACAACAGCACAAAGTGTCCCCAGCCTCTGAGTCTCCTTTCTC  
 TGAGGAAGAGAGCAGAGAGTTCAACCCAGCAGCTCTGGGCGCTCAGCGAGGACCCTTAGCAGCAACAGC  
 TTCTGCTCAGATGACACAGGCTGTCTAGCAGCCAGTCACTGTCTCTGTGAAGACACCCTCAGATGCTG  
 GAAACAGCCCCATTGGCTTTTGCCTGGAAGTGATGAAGGCTTACCAGAAAGAAATGCACGATTGGAAT  
 GGTTGGTGAAGGAAGCATTCACTCCTCTCGATATAAGAAGGAATCAAAGTCAGGCCTTGTAAACCAGGT  
 AGTGAAGTGAATTTAGTCTCTGAGCAGCACAGGCAGCATTCCGCTCTGAGGTCCATATGTCGACTG  
 CGGAAGCAAGCGGTCTTCTTTCACGCAATCGAGGTCTCATGGGCGGAGTAATGGAGCTTCGCACA  
 CAAGCCTGGCAGCAGCCATCATCCCCGGGGAAAAGGACCTTCTGTCCATGCTGTGCAGGAATCAGCTG  
 AGCCCTGTCAATATCCATCCCAGTTATGCACCTTCTTCCCAAGCAGTAGCAACTCAGGCTCTACAAAG  
 GAAGCGACTGTAGCCCCATCATGAGGCGTTCTGGAAGGTACATGTCTTGGGTGAAAATCATGGTGTGAG  
 ACCCCCAAACCCAGAGCAGTATTTGACTCCACTGCAGCAGAAAGAGGTGACAGTGAGACACCTCAAACCC  
 AAGCTGAAGGAATCTGAGCGCCGACTCCATGAAAGGGAAAGTAAATCGTGGAGCTTAAAGTCCAGCTGG  
 CCCGCATGCGAGAGGACTGGATTGAGGAGGAGTGTACCGGGTAGAGGCCAGTTGGCACTCAAAGAAGC  
 CAGGAAAGAGATTAACAGCTCAAACAGGTCATCGAAACCATGCGGAGCAGCTTGGCTGATAAAGATAAA  
 GGCATTCAGAAATATTTGTGGACATAAACATCCAAAACAAGAAGCTGGAGTCTCTCCTCAGAGCATGG  
 AGATGGCACACAGTGGCTCTGAGGGACGAACGTGCCTAGACTTCCATGTGATTTCCAGAGAAAGAG  
 CTTAACCTCAACCCCCCTCTTGACACAATGGCAGATGGGTTATCTCTGGAAGAGCAGGTACAGGGGGAA  
 GGGGCTGACAGGGAGCTACTGGTAGGAGATAGCATAGCCAACAGCACAGATTTGTTGATGAGATAGTGA  
 CAGCCACCACCAGAAATCTGGTACCTGGAGCTTGTGCATTCCACCCCTGGGGCTAACGTCCTGGAGCT  
 GCTGCCCATAGTCATGGGTGAGGAGGGCAGTGTGGTGGTGGAGCGAGCCGTTAGACCCGACGTGGTG  
 CCCTACAGCCCAGCCATCTCAGAGCTCATTAGAGTGTGCTGCAGAAAGCTCCAGGACCCCTGTCCCTCGA  
 GCTTGGCGTCCCCTGATGAGTCTGAACCAGACTCGATGGAGAGCTTCCAGAGTCCCTCTCTGCCTTAGT  
 GGTTGATTTAACTCCAAGAAATCAAACCTCAGCCATCCTTTTGTCTCCCCTGGAGACCCCTACGCCAAT  
 GTGGATGCAGAAGTTCATGCAAACCGCCTCATGAGAGAGCTGGATTTTGCAGCCTGCGTGAAGAGAGGT  
 TGGATGGTGTATCCCACTGGCTCGCGGGGGCGTCGTGAGGCAGTACTGGAGCAGCAGCTTCTGGTGGG  
 TCTCCTGGCTGTGGCTGCCCCGTGGTCCCCACGGTCTGTGGGCATTAGTACTCAGAGAGGGGGAACG  
 GATCCTGTGTATAACATCGGGGCTTGGCTCAGGGGCTGTTGCGTGGTTCCTGCATTGCTCCGCCGCA  
 CCGCCTCCGTATCAAACCC

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG218498 representing NM\_001099756  
Red=Cloning site Green=Tags(s)

```

MSNFEKEHRVQHHDKEISRSRIPRLILRPHMPQQQHKVSPASESPFSEESREFNPSSSGRSARTVSSNS
FCSDDTGCPSSQSVSPVKTPSDAGNSPIGFCPGSDEGFTRKKCTIGMVGEGSIQSSRYKKEKSKGLVKPG
SEADFSSSSSTGISAPEVHMSTAGSKRSSSRNRGPHGRSNGASSHKPGSSPSSPREKDLLSMLCRNQL
SPVNIHPSYAPSSPSSNSGSYKGSDCSPIMRRSGRYMSCGENHGVRPPNPEQYL TPLQQKEVTVRHLKT
KLKESERRLHERESEIIVELKSQLARMREDWIEEECHRVEAQLALKEARKEIKQLKQVIETMRSSLADKDK
GIQKYFVDINIQNKKLESLLQSMEMAHSGSLRDELCLDFPCDSPEKSLTLNPPLDTMADGLSLEEQVTGE
GADRELLVGDSIANSTDLFDEIVTATTTESGDLELVHSTPGANVLELLPIVMGQEEGSSVVERAVQTDVV
PYSPAISELIQSVLQKLQDPCPSSLASPDESEPDMSFPELSALVVDLTPRNPNSAILLSPVETPYAN
VDAEVHANRLMRELDFAACVEERLDGVIPLARGGVVRQYWSSSFLVDLLAVAAPVVPTVLWAFSTQRGGT
DPVYINIGALLRGCCVVALHSLRRTAFRIKT
    
```

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001099756

**ORF Size:** 1980 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\\_001099756.1](#), [NP\\_001093226.1](#)

**RefSeq Size:** 2969 bp

**RefSeq ORF:** 1983 bp

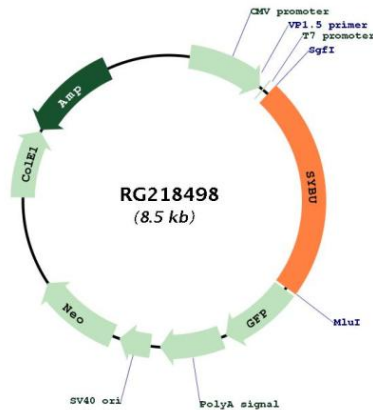
**Locus ID:** 55638

**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]

**Product images:**



Circular map for RG218498