

Product datasheet for **RG218277**

Syntabulin (SYBU) (NM_001099752) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syntabulin (SYBU) (NM_001099752) 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)



[View online »](#)

ORF Nucleotide
Sequence:

>RG218277 representing NM_001099752
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGCCCTCCGCGAGAGCAAGAAGGAGCACAGAGTGCAGCATCATGACAAGGAGATTTCTCGAAGCC
GAATCCCGGTTGATTCTCGGCCCATATGCCCAACAACAGCACAAAGTGTCGCCAGCCTCTGAGTC
TCCTTTCTCTGAGGAAGAGAGCAGAGAGTTCAACCCAGCAGCTCTGGCGCTCAGCGAGGACCGTTAGC
AGCAACAGCTTCTGCTCAGATGACACAGGCTGTCTAGCAGCCAGTCAGTGTCTCTGTGAAGACACCCCT
CAGATGCTGGAACAGCCCCATTGGCTTTTGCCTGGAAGTGATGAAGGCTTCACCAGAAAGAAATGCAC
GATTGGAATGGTTGGTGAAGGAAGCATTAGTCTCTCGATATAAGAAGGAATCAAAGTCAGGCCTTGTG
AAACCAGGTAGTGAAGCTGATTTTAGTCTCTGAGCAGCACAGGCAGCATTTCGCTCTGAGGTCCATA
TGTCGACTGCGGAAGCAAGCGTCTTCTTTCACGCAATCGAGTCTCATGGCGGAGTAATGGAGC
TTCGTCACACAAGCCTGGCAGCAGCCATCATCCCGCGGAAAAGGACCTTCTGTCCATGCTGTGCAGG
AATCAGCTGAGCCCTGTCAATATCCATCCAGTTATGCACCTTCTCCCAAGCAGTAGCAACTCAGGCT
CCTACAAAGGAAGCGACTGTAGCCCATCATGAGGCGTTCTGGAAGGTACATGTCTTGCGGTGAAAATCA
TGGTGTGACAGCCCCAAACCCAGAGCAGTATTTGACTCCACTGCAGCAGAAAAGAGGTGACAGTGAGACAC
CTCAAAACCAAGCTGAAGGAATCTGAGCGCCGACTCCATGAAAGGGAAAAGTAAAATCGTGGAGCTTAAGT
CCCAGCTGGCCCGCATGCGAGAGGACTGGATTGAGGAGGAGTGTACCCGGGTAGAGGCCAGTTGGCACT
CAAAGAAGCCAGGAAAGAGATTAACAGCTCAACAGGTATCGAAACCATGCGGAGCAGCTTGGCTGAT
AAAGATAAAGGCATTAGAAAATATTTGTGGACATAAACATCCAAAACAAGAAGCTGGAGTCTCTCCTTC
AGAGCATGGAGATGGCACACAGTGGCTCTCTGAGGGACGAACTGTGCCTAGACTTCCATGTGATTCCCC
AGAGAAGAGCTTAACCCTCAACCCCTCTTGACACAATGGCAGATGGGTTATCTCTGGAAGAGCAGGTC
ACGGGGGAAGGGGCTGACAGGGAGCTACTGGTAGGAGATAGCATAGCCAACAGCACAGATTTGTTGATG
AGATAGTGACAGCCACCACCACAGAATCTGGTGACCTGGAGCTTGTGCATTCCACCCCTGGGGCTAACGT
CCTGGAGCTGCTGCCATAGTCAATGGTTCAGGAGGAGGGCAGTGTGGTGGTGGAGCGAGCCGTTCCAGACC
GACGTGGTGCCCTACAGCCAGCCATCTCAGAGCTCATTAGAGTGTGCTGCAGAAGCTCCAGGACCCCT
GTCCTCGAGCTTGGCGTCCCCTGATGAGTCTGAACCAGACTCGATGGAGAGCTTCCAGAGTCCCTCTC
TGCTTAGTGGTTGATTTAACTCCAAGAAATCCAAACTCAGCCATCCTTTTGTCTCCCGTGGAGACCCCT
TAGCCAATGTGGATGCAGAAGTTCATGCAAAACCGCCTCATGAGAGAGCTGGATTTTGCAGCCTGCGTGG
AAGAGAGGTTGGATGGTGTATCCCACTGGCTCGCGGGGGCGTGTGAGGCACTACTGGAGCAGCAGCTT
CCTGGTGGATCTCCTGGCTGTGGCTGCCCCGTTGGTCCCCACGGTCTGTGGGCATTCACTACTCAGAGA
GGGGGAACGGATCCTGTGTATAACATCGGGGCTTGTCTCAGGGGCTGTTGCGTGGTTGCCCTGCATTTCG
TCCGCGCACCGCCTTCCGTATCAAAAC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG218277 representing NM_001099752
 Red=Cloning site Green=Tags(s)

MGPLRESKKEHRVQHHDKEISRSRIPRLILRPHMPQQQHKVSPASESPFSEESREFNPSSSGRSARTVS
 SNSFCSDDTGCPSSQSVSPVKTPSDAGNSPIGFCPGSDGFTTRKCTIGMVGEGSIQSSRYKESKSGLV
 KPGSEADFSSSSSTGSIASPEVHMSTAGSKRSSSRNRGPHGRSNGASSHKPGSSPSSPREKDLLSMLCR
 NQLSPVNIHPSYAPSSPSSNSGSYKGSDCSPIMRRSGRYMSCGENHGVRPPNPEQYLTPQQKEVTVRH
 LKTKLKESERRLHERESEIVELKSQLARMREDWIEEECHRVEAQLALKEARKEIKQLKQVIETMRSSLAD
 KDKGIQKYFVDINIQNKKLESLLQSMEMAHSGSLRDELCLDFPCDSPEKSLTLNPPLDTMADGLSLEEQV
 TGEADRELLVGDSIANSTDLFDEIVTATTESGDLELVHSTPGANVLELLPIVMQEEGSSVVVERAVQT
 DVVPYSPAISELIQSVLQKLQDPCPSSLASPDESEPDMSMFPELSALVVDLTPRNPNSAILLSPVETP
 YANVDAEVHANRLMRELDFAACVEERLDGVIPLARGGVVRQYWSSSFLVDLLAVAAPVVPTVLWAFSTQR
 GGTDPVYNI GALLRGCCVVALHSLRRTAFRIKT

TRTRPLE - GFP Tag - V

Restriction Sites:

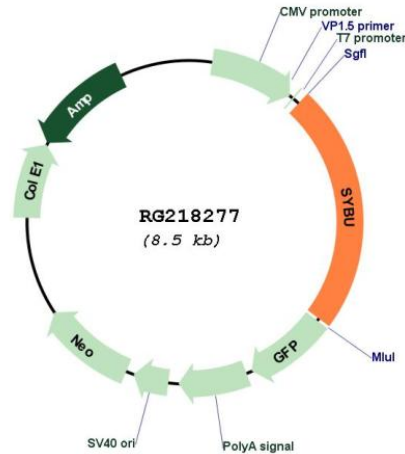
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001099752

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_001099752.1](#), [NP_001093222.1](#)

RefSeq Size: 3097 bp

RefSeq ORF: 1992 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]