

Product datasheet for **RG218444**

Syntabulin (SYBU) (NM_001099754) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syntabulin (SYBU) (NM_001099754) 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:

>RG218444 representing NM_001099754
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGCCCTCCGCGAGAGCAAGAAGGAGCACAGAGTGCAGCATCATGACAAGGAGATTTCTCGAAGCC
GAATTCGCCGTTGATTCTCGGCCCATATGCCCAACACAGCACAAAGTGTCGCCAGCCTCTGAGTC
TCCTTTCTCTGAGGAAGAGAGCAGAGAGTTCAACCCAGCAGCTCTGGCGCTCAGCGAGGACCGTTAGC
AGCAACAGCTTCTGCTCAGATGACACAGGCTGTCTAGCAGCCAGTCAGTGTCTCTGTGAAGACACCCCT
CAGATGCTGGAACAGCCCCATTGGCTTTTGCCTGGAAGTGATGAAGGCTTCACCAGAAAGAAATGCAC
GATTGGAATGGTTGGTGAAGGAAGCATTAGTCTCTCGATATAAGAAGGAATCAAAGTCAGGCCTTGTG
AAACCAGGTAGTGAAGCTGATTTAGTCTCTGAGCAGCACAGGCAGCATTTCGCTCTGAGGTCCATA
TGTCGACTGCGGAAGCAAGCGTCTTCTTTCACGCAATCGAGTCTCATGGCGGAGTAATGGAGC
TTCGTCACACAAGCCTGGCAGCAGCCATCATCCCGCGGAAAAGGACCTTCTGTCCATGCTGTGCAGG
AATCAGCTGAGCCCTGTCAATATCCATCCAGTTATGCACCTTCTCCCAAGCAGTAGCAACTCAGGCT
CCTACAAAGGAAGCGACTGTAGCCCATCATGAGGCGTCTGGAAGGTACATGTCTTGCGGTGAAAATCA
TGGTGTGACAGCCCCAAACCCAGAGCAGTATTTGACTCCACTGCAGCAGAAAGAGGTGACAGTGAGACAC
CTCAAAACCAAGCTGAAGGAATCTGAGCGCCGACTCCATGAAAGGGAAAGTGAATCGTGGAGCTTAAGT
CCCAGCTGGCCCGCATGCGAGAGGACTGGATTGAGGAGGAGTGTACCCGGTAGAGGCCAGTTGGCACT
CAAAGAAGCCAGGAAAGAGATTAACAGCTCAACAGGTATCGAAACATGCGGAGCAGCTTGGCTGAT
AAAGATAAAGGCATTAGAAATATTTGTGGACATAAACATCCAAACAAGAAGCTGGAGTCTCTCCTTC
AGAGCATGGAGATGGCACACAGTGGCTCTCTGAGGGACGAACTGTGCCTAGACTTCCATGTGATTCCCC
AGAGAAGAGCTTAACCCTCAACCCCTCTTGACACAATGGCAGATGGGTTATCTCTGGAAGAGCAGGTC
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AGATAGTGACAGCCACCACCACAGAATCTGGTACCTGGAGCTTGTGCATTCCACCCCTGGGGCTAACGT
CCTGGAGCTGCTGCCATAGTCAATGGTTCAGGAGGAGGGCAGTGTGGTGGTGGAGCGAGCCGTTAGACC
GACGTGGTGCCTACAGCCAGCCATCTCAGAGCTCATTAGAGTGTGCTGCAGAAGCTCCAGGACCCCT
GTCCTCGAGCTTGGCGTCCCCTGATGAGTCTGAACCAGACTCGATGGAGAGCTTCCAGAGTCCCTCTC
TGCTTAGTGGTTGATTTAACTCCAAGAAATCCAAACTCAGCCATCCTTTTGTCTCCCGTGGAGACCCCT
TAGCCAATGTGGATGCAGAAGTTCATGCAAAACCGCCTCATGAGAGAGCTGGATTTGCAGCCTGCGTGG
AAGAGAGGTTGGATGGTGTATCCCACTGGCTCGCGGGGGCGTCTGTGAGGCACTACTGGAGCAGCAGCTT
CCTGGTGGATCTCCTGGCTGTGGCTGCCCCGTGGTCCCACGGTCTGTGGGCATTAGTACTCAGAGA
GGGGGAACGGATCCTGTGTATAACATCGGGGCTTGTCTCAGGGGCTGTTGCGTGGTTGCCCTGCATTGCG
TCCGCGCACCGCCTTCGTATCAAAAC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG218444 representing NM_001099754
 Red=Cloning site Green=Tags(s)

MGPLRESKKEHRVQHHDKEISRSRIPRLILRPHMPQQQHKVSPASESPFSEESREFNPSSSGRSARTVS
 SNSFCSDDTGCPSSQSVSPVKTPSDAGNSPIGFPCGSDEGFTRKCTIGMVGEGSIQSSRYKESKGLV
 KPGSEADFSSSSSTGSI SAPEVHMSTAGSKRSSSRNRGPHGRSNGASSHKPGSSPSSPREKDLLSMLCR
 NQLSPVNIHPSYAPSSPSSNSGSYKGSDCSPIMRRSGRYMSCGENHGVRPPNPEQYL TPLQQKEVTVRH
 LKTKLKESERRLHERESEIVELKSQLARMREDWIEEECHRVEAQLALKEARKEIKQLKQVIETMRSSLAD
 KDKGIQKYFVDINIQNKKLESL LQSMEMAHSGSLRDELCLDFPCDSPEKSLTLNPPLDTMADGLSLEEQV
 TGEGADRELLVGDSIANSTDLFDEIVTATTESGDLELVHSTPGANVLELLPIVMQEEGSSVVVERAVQT
 DVVPYSPAISELIQSVLQKLQDPCPSSLASPDESEPDMSMFPELSALVVDLTPRNPNSAILLSPVETP
 YANVDAEVHANRLMRELDFAACVEERLDGVIPLARGGVVRQYWSSSFLVDLLAVAAPVVPTVLWAFSTQR
 GGTDPVYNI GALLRGCCVVALHSLRRTAFRIKT

TRTRPLE - GFP Tag - V

Restriction Sites:

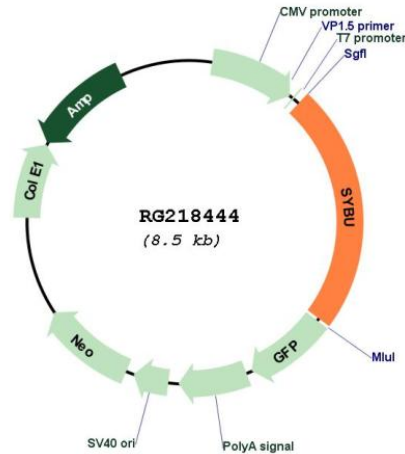
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001099754

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_001099754.2](#)

RefSeq Size: 2898 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]