

Product datasheet for **RG217787**

Syntabulin (SYBU) (NM_001099743) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syntabulin (SYBU) (NM_001099743) 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:

>RG217787 representing NM_001099743
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCCCTCCGCGAGAGCAAGGAGCACAGAGTGCAGCATCATGACAAGGAGATTTCTCGAAGCCGAA
 TTCCCGGTTGATTCTTCGGCCCATATGCCCAACAACAGCACAAAGTGTCCCAAGCCTCTGAGTCTCC
 TTTCTCTGAGGAAGAGAGCAGAGAGTTCAACCCAGCAGCTCTGGGCGCTCAGCGAGGACCGTTAGCAGC
 AACAGTCTCTGCTCAGATGACACAGGCTGTCTAGCAGCCAGTCAGTGTCTCTGTGAAGACACCCTCAG
 ATGCTGGAACAGCCCCATTGGCTTTTGCCTGGAAGTATGAAGGCTTACCAGAAAGAAATGCACGAT
 TGGAAATGGTTGGTGAAGGAAGCATTTCAGTCTCTCGATATAAGAAGGAATCAAAGTCAGGCCCTTGTA
 CCAGGTAGTGAAGCTGATTTTAGCTCCTCGAGCAGCACAGGCAGCATTTCGCTCCTGAGGTCCATATGT
 CGACTCGGGGAAGCAAGCGGTCTTCTTTCACGCAATCGAGTCTCATGGGCGGAGTAATGGAGCTTC
 GTCACACAAGCCTGGCAGCAGCCATCATCCCCGGGAAAAGGACCTTCTGTCCATGCTGTGCAGGAAT
 CAGCTGAGCCCTGCAATATCCATCCCAGTTATGCACCTTCTTCCCAAGCAGTAGCAACTCAGGCTCCT
 ACAAAGGAAGCGACTGTAGCCCCATCATGAGGCGTTCTGGAAGGTACATGTCTTGCAGTGAAGTATCATGG
 TGTGACACCCCAAAACCAGAGCAGTATTTGACTCCACTGCAGCAGAAAGAGGTGACAGTGAACACCTC
 AAAACCAAGTGAAGGAATCTGAGCGCCGACTCCATGAAAGGGAAAGTGAATCGTGGAGCTTAAGTCCC
 AGCTGGCCCGCATGCGAGAGGACTGGATTGAGGAGGAGTGTACCCGGGTAGAGGCCAGTTGGCACTCAA
 AGAAGCCAGGAAAGAGATTAACAGCTCAAACAGTTCATCGAAACCATGCGGAGCAGCTTGGCTGATAAA
 GATAAAGGCATTCAGAAATATTTTGTGGACATAAACATCCAAAACAAGAAGCTGGAGTCTCTCCTTCAGA
 GCATGGAGATGGCACACAGTGGCTCTCTGAGGGACGAACTGTGCCTAGACTTTCCATGTGATTTCCCA
 GAAGAGCTTAACCCTCAACCCCTCTTGACACAATGGCAGATGGGTTATCTCTGGAAGAGCAGGTCACG
 GGGGAAGGGGCTGACAGGGAGCTACTGGTAGGAGATAGCATAGCCAACAGCACAGATTTGTTGATGAGA
 TAGTGACAGCCACCACAGAACTCTGGTGACCTGGAGCTTGTGCATTCCACCCCTGGGGCTAACGTCCT
 GGAGCTGCTGCCATAGTCATGGGTGAGGAGGGGAGTGTGGTGGTGGAGCGAGCCGTTGAGCCGAC
 GTGGTGCCTACAGCCAGCCATCTCAGAGCTCATTGAGAGTGTGCTGCAGAAGTCCAGGACCCCTGTC
 CCTCGAGCTTGGCGTCCCTGATGAGTCTGAACCAGACTCGATGGAGAGCTTCCAGAGTCCCTCTGTC
 CTTAGTGGTTGATTTAACTCCAAGAAATCAAACCTCAGCCATCCTTTTGTCTCCCGTGGAGACCCCTAC
 GCCAATGTGGATGCAGAAGTTCATGCAAACCGCTCATGAGAGAGCTGGATTTTGCAGCCTGCGTGAAG
 AGAGGTTGGATGGTGTATCCCACTGGCTCGCGGGGGCGTCGTGAGGCAGTACTGGAGCAGCAGCTTCT
 GGTGGATCTCCTGGCTGTGGCTGCCCCGTTGGTCCCCACGTTCTGTGGCATTCACTCAGAGAGGG
 GGAACGGATCCTGTGATAACATCGGGGCTTGTCTCAGGGGCTGTGCGTGGTGGCTGCATTGCTCC
 GCCGACCCGCTTCCGTATCAAACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG217787 representing NM_001099743
 Red=Cloning site Green=Tags(s)

MGPLRESKEHRVQHHDKIEISRSRIPRLILRPHMPQQQHKVSPASESPFSEESREFNPSSSGRSARTVSS
 NSFCSDDTGCPSQSVSPVKTPSDAGNSPIGFPCGSDEGFTRKCKTIGMVGEGSIQSSRYKESKSGLVK
 PGSEADFSSSSSTGSI SAPEVHMSTAGSKRSSSRNRGPHGRSNGASSHKPGSSPSPREKDLLSMLCRN
 QLSPVNIHPSYAPSSPSSNSGSYKGSDCSPIMRRSGRYMSCGENHGVRPPNPEQYLTPLQQKEVTVRHL
 KTKLKESEERRLHERESEIVELKSQ LARMREDWIEEECHRVEAQLALKEARKEIKQLKQVIETMRSSLADK
 DKGIQKYFVDINIQNKKLESLLQSMEMAHSGSLRDELCLDFPCDSPEKSLTLNPPLDTMADGLSLEEQVT
 GEGADRELLVGDSIANSTDLFDEIVTATTTESGDLELVHSTPGANVLELLPIVMGQEEGVSVVVERAVQTD
 VVPYSPAISELIQSVLQKLQDPCPSSLASPDESEPDSMESFPESLSALVVDLTPRNPNSAAILLSPVETPY
 ANVDAEVHANRLMRELDFAACVEERLDGVIPLARGGVVRQYWSSSFLVDLLAVAAPVVPTVLWAFSTQRG
 GTDPVYINIGALLRGCCVVALHSLRRTAFRIKT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001099743

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_001099743.2](#)

RefSeq Size: 3248 bp

RefSeq ORF: 1989 bp

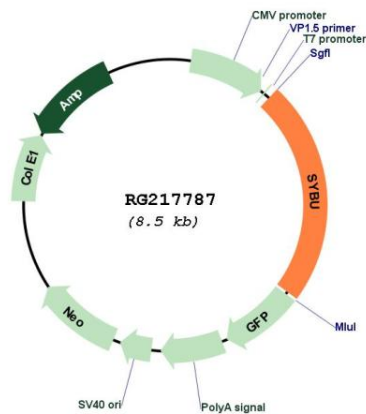
Locus ID: 55638

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]

Product images:



Circular map for RG217787