

## Product datasheet for **MG222067**

### Sybu (NM\_001032727) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sybu (NM_001032727) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sybu
Synonyms:	Golsyn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG222067 representing NM\_001032727  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACACGGTCTGCAAAGGAAACGATGACACAGTTGTCCAGCAGCCAGTCGGTATCGCCTGTGAAGA  
 CTCCTTCAGACACAGGGCACAGTCCCATTGGCTTTTGCCCTGGAAGCGATGAAGACTTTACCAGGAAGAA  
 ATGCAGGATTGGAATGGTTGGTGAGGGAAGTATTCAGTCAGCTCGTCATAAAAAAGAACCAAGGGAGGC  
 ATCATAAAGCCAGGCAGTGAAGCAGATTTAGCTCCTCGAGCAGCACAGGCAGCATCTCGGCTCCTGAGG  
 TCCACATGTCCACGACAGGAAACAAGAGAGCCTCTTTCTACGCAACCGAGGCCCTCATGGGCGGAGCAA  
 TGGAGCATCATCCACAAGTCTGGCAGCAGCCACCATCCCAAGGAAAAAGACCTTGTGTCTATGCTG  
 TGCAGGAATCCACTGAGCCCCAGTAACATCCACCCTAGTTACGCCCTTCTTCTCCAAGTAGCAGCAACT  
 CCGGCTCTCAAAGGAAGTGATTGTAGTCCAGTCATGAGAAGGTCTGGAAGATACATGTCTTGTGGCGA  
 AAATCACGGTGTCAAACCCCAAATCCAGAACAGTATTTGACTCCTCTGCAGCAGAAGGAGGTACAGTG  
 AGGCACCTGAGGACCAAGCTGAAGGAGTCTGAGCGCCGACTCCATGAGAGGGAATCTGAAATCATGGAGC  
 TCAAGTCTCAGCTGGCTCGAATGAGGGAGGACTGGATTGAGGAAGAGTGCCACAGAGTGGAGGCTCAGTT  
 GGCACTCAAAGAAGCCAGAAAAGAGATTAACAGCTCAAACAGGTCATCGAGACTATGAGGAGCAGCTTG  
 GCTGATAAAGATAAAGGCATTGAGAAGTACTTTGTGGACATAACATCCAAAACAAGAACTGGAGTCTC  
 TGCTTCAAAGCATGGAGATGGCACACAATAGTTCCTGAGGGATGAAGTGTGCTTGGACTTTTCTTTGA  
 TCCCCAGAGAAAAGTTTACCCCTGAGCAGCACATTTGACAAGTTGCCAGATGGGTTATCTCTGGAAGAA  
 CAGATAACAGAGGAAGGTGCTGACAGTGAGCTTCTGGTGGGAGACAGCATGGCTGAAGGCACAGATCTGT  
 TAGATGAGATGGTGACTGCCACCACAGAATCCAGTGGCTGGAGTTTGTTCATCCACTCCAGGGCC  
 ACAAGCCCTCAAGGCTCTCCCTTGGTGAGCCACGAAGAGGGCATTGCGGTGATGGAGCAAGCCGTGCAG  
 ACCGACGTGGTGCCGTTAGCCCTGCCATCTCAGAGCTCATTGAGTGTGCTAAAGCTGCAGGACTACT  
 GTCCACAAGCTCAGCATCTCCAGATGAATCTGGAGCTGACTCGATGGAAAGCTTCTCAGAATCTATCTC  
 TGCCTTAATGCTTGAATTAACCCAAGAAGTCTAACTCGGCCATCCTTCTGTCTCTGTGGAGATCCCA  
 TTCAGCAAAGGGGCTATGGAAGCCATGCAAAATCGCCTCATGAGAGAGCTAGATTTTGCAGCCTACACAG  
 AAGAAAGATTGGACAGTGTCTCTCACTGTCCAGGGCAGTGTGTGAGGCAGTACTGGAGCAGCAATTT  
 CTTGGTGGATCTACTGGCTGTGGCTGCCCTGTGGTACCCACTGTTCTGTGGCATTGACTACTCAGAGA  
 GGGGTACAGATCTGTCTACAACATCGGAGCTTTGCTCCGAGGTTGCTGTGTGGTGGCCCTACACTCAC  
 TACGCCGCACCGCTTTCCACATGAAAACC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG222067 representing NM\_001032727  
 Red=Cloning site Green=Tags(s)

MDTVCKGNDTGCPSQSVPVKTSPDTHSPIGFPCGSDDFTRKKCRIGMVGEGSIQSARHKKEPKGG  
 IIKPGSEADFSSSSSTGSI SAPEVHMSTTGNKRASF SRNRGPHGRSNGASSHKSGSSPPSPREKDLVSM  
 CRNPLSPSNIHPSYAPSSPSSNSGSYKSDCSPVMRRSGRYMSCGENHGVKPPNPEQYL TPLQQKEVTV  
 RHLRKLKESERRLHERESEIMELKSQLARMREDWIEECHRVEAQLALKEARKEIKQLKQVIETMRSSL  
 ADKDKGIQKYFVDINIQNKKLESLLSMEMAHNSSLRDELCLDFSFDSPEKSLPLSSTFDKLPDGLSLEE  
 QITEEGADSELLVGD SMAEGTDLLDEMVTATTTESGLEFVHSTPGPQALKALPLVSHEEGIAVMEQAVQ  
 TDVVPFSPAISELIQSVLKLQDYCPTSSASPDESADSMESFSEISALMLDLTPRSPNSAILLSPVEIP  
 FSKGAMEAHANRLMRELDFAAYTEERLDSVLSLQGSVVRQYWSSNFLVDLLAVAAPVVPTVLWAFSTQR  
 GGTDPVYNIGALLRGCCVVALHSLRRTAFHMKT

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001032727

**ORF Size:** 1779 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\\_001032727.1](#), [NP\\_001027899.1](#)

**RefSeq Size:** 2948 bp

**RefSeq ORF:** 1782 bp

**Locus ID:** 319613

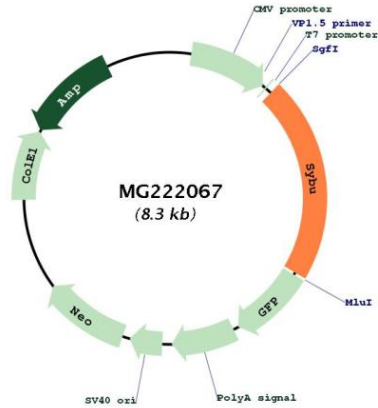
**UniProt ID:** [Q8BHS8](#)

**Cytogenetics:** 15 B3.2

**Gene Summary:**

Part of a kinesin motor-adapter complex that is critical for the anterograde axonal transport of active zone components and contributes to activity-dependent presynaptic assembly during neuronal development.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG222067