

## Product datasheet for **MC220291**

### Sybu (NM\_178765) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sybu (NM_178765) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sybu
Synonyms:	Golsyn
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC220291 representing NM\_178765  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGCCCTCCGAGAGAGCAAGAAGGAGCAGAGAGTGCAGCATCAGGAGAAAGAGATTTCCAGGAGCC  
 GGATTCGCCGGTTGATTCTGCGGCCCATCGGCCCTCAGCAGCAGCAACAGCAGCAGAACAAGTTTCCCC  
 AGCCTCCGAGTCTCCCTTTTCGGAGGAAGAAAGTAGAGAGTTCAACCCAGCAGCTCTGGACGCTCAGCA  
 AGGACGATTAGCAGCAACAGCTTCTGCTCAGATGACACAGTTGTCCCAGCAGCCAGTCGGTATCGCCTG  
 TGAAGACTCCTTCAGACACAGGGCAGTCCCATTGGCTTTTGCCTGGAAGCGATGAAGACTTTACCAG  
 GAAGAAATGCAGGATTGGAATGGTTGGTGAGGGAAGTATTCAGTCAGCTCGTCATAAAAAAGAACCCAAG  
 GGAGGCATCATAAAGCCAGGCAGTGAAGCAGATTTAGCTCCTCGAGCAGCACAGGCAGCATCTCGGCTC  
 CTGAGGTCACATGTCCACGACAGGAAACAAGAGAGCCTCTTTCTCACGCAACCGAGGCCCTCATGGGCG  
 GAGCAATGGAGCATCATCCACAAGTCTGGCAGCAGCCACCATCCCAAGGGAAAAAGACCTTGTGTCT  
 ATGCTGTGCAGGAATCCACTGAGCCCCAGTAACATCCACCCTAGTTACGCCCTTCTTCTCCAAGTAGCA  
 GCAACTCCGGCTCTACAAGGAAGTGATTGTAGTCCAGTCATGAGAAGGTCTGGAAGATACATGTCTTG  
 TGGCGAAAATCACGGTGTCAAACCCCAATCCAGAACAGTATTTGACTCCTCTGCAGCAGAAGGAGGTC  
 ACAGTGAGGCACCTGAGGACCAAGCTGAAGGAGTCTGAGCGCCGACTCCATGAGAGGGAATCTGAAATCA  
 TGGAGCTCAAGTCTCAGCTGGCTCGAATGAGGGGAGGACTGGATTGAGGAAGAGTGCCACAGAGTGGAGGC  
 TCAGTTGGCACTCAAAGAAGCCAGAAAAGAGATTAACAGCTCAAACAGGTCATCGAGACTATGAGGAGC  
 AGCTTGGCTGATAAAGATAAAGGCATTCAGAAGTACTTTGTGGACATAAACATCCAAAACAAGAACTGG  
 AGTCTCTGCTTCAAAGCATGGAGATGGCACACAATAGTTCCCTGAGGGATGAAGTGTCTTGACTTTTC  
 CTTTGATTCGCCAGAGAAAAGTTTACCCTGAGCAGCACATTTGACAAGTTGCCAGATGGGTTATCTCTG  
 GAAGAACAGATAACAGAGGAAGGTGCTGACAGTGAGCTTCTGGTGGGAGACAGCATGGCTGAAGGCACAG  
 ATCTGTTAGATGAGATGGTGACTGCCACCACAGAAATCCAGTGGCCTGGAGTTTGTTCATTCCACTCC  
 AGGGCCACAAGCCCTCAAGGCTCTCCCCTTGGTGAGCCACGAAGAGGGCATTGCGGTGATGGAGCAAGCC  
 GTGCAGACCGACGTGGTGCCGTTAGCCCTGCCATCTCAGAGCTCATTAGAGTGTGCTAAAGCTGCAGG  
 ACTACTGTCCACAAGCTCAGCATCTCCAGATGAATCTGGAGCTGACTCGATGGAAGCTTCTCAGAATC  
 TATCTCTGCCTTAATGCTTGATTTAACTCCAAGAAGTCTAACTCGGCCATCCTTCTGTCTCTGTGGAG  
 ATCCCATTCAGCAAGGGGCTATGGAAGCCATGCAAATCGCCTCATGAGAGAGTACTAGTTTGCAGCCT  
 ACACAGAAAGAAAGATTGGACAGTGTCTCTCACTGTCCCAGGGCAGTGTGTGAGGCAGTACTGGAGCAG  
 CAATTTCTTGGTGGATCTACTGGCTGTGGCTGCCCTGTGGTACCCTGTTCTGTGGGCATTAGTACT  
 CAGAGAGGGGGTACAGATCCTGTCTACAACATCGAGCTTTGCTCCGAGGTTGCTGTGTGGTGGCCCTAC  
 ACTCACTACGCCGACCCGCTTCCACATGAAAACCTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_178765
- Insert Size:** 1998 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_178765.3](#), [NP\\_848880.2](#)

**RefSeq Size:** 3152 bp

**RefSeq ORF:** 1998 bp

**Locus ID:** 319613

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

**Cytogenetics:** 15 B3.2

**Gene Summary:** 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.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (c) lacks part of the 5' coding region, uses an alternate 5'-terminal exon, and initiates translation at a downstream start codon, compared to variant a. The encoded isoform (c) has a shorter N-terminus, compared to isoform a. Both variants 3 and 4 encode the same isoform.