

## Product datasheet for **MR230822**

### Sybu (NM\_001285840) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sybu (NM_001285840) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sybu
Synonyms:	Golsyn
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide  
Sequence:

>MR230822 representing NM\_001285840  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGGCCCTCCGAGAGAGCAAGAAGGAGCAGAGAGTGCAGCATCAGGAGAAAGAGATTTCCAGGAGCC  
GGATTCGCCGGTTGATTCTGCGGCCCATCGGCCCTCAGCAGCAGCAACAGCAGCAGAACAAGTTTCCCC  
AGCCTCCGAGTCTCCCTTTTCGGAGGAAGAAAGTAGAGAGTTCAACCCAGCAGCTCTGGACGCTCAGCA  
AGGACGATTAGCAGCAACAGCTTCTGCTCAGATGACACAGTTGTCCCAGCAGCCAGTCGGTATCGCCTG  
TGAAGACTCCTTCAGACACAGGGCAGTCCCATTGGCTTTTGCCTGGAAGCGATGAAGACTTTACCAG  
GAAGAAATGCAGGATTGGAATGGTTGGTGAGGGAAAGTATTCAGTCAGCTCGTCATAAAAAAGAACCCAAG  
GGAGGCATCATAAAGCCAGGCAGTGAAGCAGATTTAGCTCCTCGAGCAGCACAGGCAGCATCTCGGCTC  
CTGAGGTCACATGTCCACGACAGGAAACAAGAGAGCCTCTTTCTCACGCAACCGAGGCCCTCATGGCCG  
GAGCAATGGAGCATCATCCACAAGTCTGGCAGCAGCCACCATCCCAAGGGAAAAAGACCTTGTGTCT  
ATGCTGTGCAGGAATCCACTGAGCCCCAGTAACATCCACCCTAGTTACGCCCTTCTTCTCCAAGTAGCA  
GCAACTCCGGCTCCTACAAGGAAGTGATTGTAGTCCAGTCATGAGAAGGTCTGGAAGATACATGTCTTG  
TGGCGAAAATCACGGTGTCAAACCCCAATCCAGAACAGTATTTGACTCCTCTGCAGCAGAAGGAGGTC  
ACAGTGAGGCACCTGAGGACCAAGCTGAAGGAGTCTGAGCGCCGACTCCATGAGAGGGAATCTGAAATCA  
TGGAGCTCAAGTCTCAGCTGGCTCGAATGAGGGAGGACTGGATTGAGGAAGAGTGCCACAGAGTGGAGGC  
TCAGTTGGCACTCAAAGAAGCCAGAAAAGAGATTAACAGCTCAAACAGGTCATCGAGACTATGAGGAGC  
AGCTTGGCTGATAAAGATAAAGGCATTCAGAAGTACTTTGTGGACATAAACATCCAAAACAAGAACTGG  
AGTCTCTGCTTCAAAGCATGGAGATGGCACACAATAGTTCCCTGAGGGATGAACTGTGTCTTGACTTTTC  
CTTTGATTCGCCAGAGAAAAGTTTACCCTGAGCAGCACATTTGACAAGTTGCCAGATGGGTTATCTCTG  
GAAGAACAGATAACAGAGGAAGGTGCTGACAGTGAGCTTCTGGTGGGAGACAGCATGGCTGAAGGCACAG  
ATCTGTTAGATGAGATGGTGACTGCCACCACACAGAATCCAGTGGCCTGGAGTTTGTTCATTCCACTCC  
AGGGCCACAAGCCCTCAAGGCTCTCCCCTTGGTGAGCCACGAAGAGGGCATTGCGGTGATGGAGCAAGCC  
GTGCAGACCGACGTGGTGCCGTTTCAGCCCTGCCATCTCAGAGCTCATTAGAGTGTGCTAAAGCTGCAGG  
ACTACTGTCCACAAGCTCAGCATCTCCAGATGAATCTGGAGCTGACTCGATGGAAGCTTCTCAGAATC  
TATCTCTGCCTTAATGCTTGATTTAACTCCAAGAAGTCTAACTCGGCCATCCTTCTGTCTCCTGTGGAG  
ATCCCATTCAGCAAGGGGCTATGGAAGCCATGCAAATCGCCTCATGAGAGAGCTAGATTTTGCAGCCT  
ACACAGAAGAAAGATTGGACAGTGTCTCTCACTGTCCCAGGGCAGTGTGTGAGGCAGTACTGGAGCAG  
CAATTTCTTGGTGGATCTACTGGCTGTGGCTGCCCTGTGGTACCCACTGTTCTGTGGGCATTAGTACT  
CAGAGAGGGGTACAGATCCTGTCTACAACATCGGAGCTTTGCTCCGAGGTTGCTGTGTGGTGGCCCTAC  
ACTCACTACGCCGACCGCTTCCACATGAAAACC

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230822 representing NM\_001285840  
 Red=Cloning site Green=Tags(s)

MGPLRESKKEQRVQHQEKEISRSRIPRLILRPHRPQQQQQQNKVSPASESPFSEESREFNPSSSGRSA  
 RTISSNSFCSDDTGCPSSQSVSPVKTPSDTGHSPIGFCPGSDEDFTRKKCRIGMVGEGSIQ SARHKKPK  
 GGIIKPGSEADFSSSSSTGSI SAPEVHMSTTGNKRASF SRNRGPHGRSNGASSHKSGSSPPSPREKDLVS  
 MLCRNPLSPSNIHPSYAPSSPSSNSGSYKSDCSPVMRRSGRYMSCGENHGKPPNPEQYL TPLQQKEV  
 TVRHLR TKLKE SERRLHERESEIMELKSQLARMREDWIEEECHRVEAQLALKEARKEIKQLKQVIETMRS  
 SLADKDKGIQKYFVDINIQNKLESL LQSMEMAHNSL RDELCLDF SFDSPKSLPLSSTFDKLPDGLSL  
 EEQITEEGADSELLVGD SMAEGTDLLDEMVTATTTESGLEFVHSTPGPQALKALPLVSHEEGIAVMEQA  
 VQTDVVPFSPAISELIQSVLKLQDYCPTSSASPD ESGADSMESFSESISALMLDL TPRSPNSAILLSPVE  
 IPFSKGAMEAHANRLMRELDFAAYTEERLDSVLSL SQGSSVVRQYWSSNFLVDLLAVAAPVVPTVLWAFST  
 QRGGTD PVYNIGALLRGCCVVALHSLRRTAFHMKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

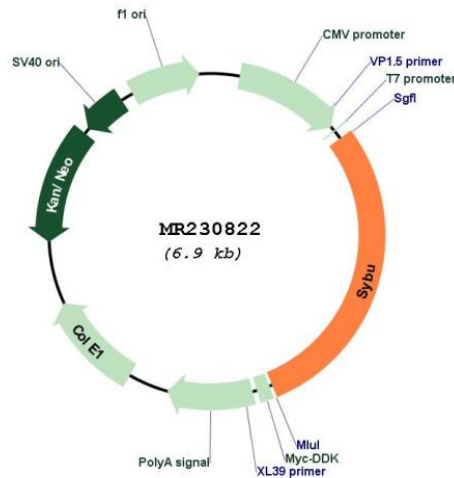
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



## Plasmid Map:



ACCN: NM\_001285840

ORF Size: 1995 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\\_001285840.1](#), [NP\\_001272769.1](#)

RefSeq Size: 3054 bp

RefSeq ORF: 1998 bp

Locus ID: 319613

UniProt ID: [Q8BHS8](#)

Cytogenetics: 15 B3.2

MW: 73.5 kDa

**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]