

## Product datasheet for **MR209873**

### Sybu (NM\_178765) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sybu (NM_178765) 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



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ORF Nucleotide  
Sequence:

>MR209873 representing NM\_178765  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGGGGCCCTCCGAGAGAGCAAGGAGCAGAGAGTGCAGCATCAGGAGAAAGAGATTTCCAGGAGCCGGA  
TTCCCGGTTGATTCTGCGGCCCATCGGCCTCAGCAGCAGCAACAGCAGCAGAACAAGTTTCCCGAGC  
CTCCGAGTCTCCCTTTTCGGAGGAAGAAAGTAGAGAGTTCAACCCAGCAGCTCTGGACGCTCAGCAAGG  
ACGATTAGCAGCAACAGCTTCTGCTCAGATGACACAGGTTGTCCAGCAGCCAGTCGGTATCGCCTGTGA  
AGACTCCTTCAGACACAGGGCACAGTCCCATTGGCTTTTGCCTGGAAGCGATGAAGACTTTACCAGGAA  
GAAATGCAGGATTGGAATGGTTGGTGAGGGAAGTATTCAGTCAGCTCGTCATAAAAAAGAACCCAAGGGA  
GGCATCATAAAGCCAGGCAGTGAAGCAGATTTAGCTCCTCGAGCAGCACAGGCAGCATCTCGGCTCCTG  
AGGTCCACATGTCCACGACAGGAAACAAGAGAGCCTCTTCTCACGCAACCGAGGCCCTCATGGCGGGAG  
CAATGGAGCATCATCCACAAGTCTGGCAGCAGCCACCATCCCCAAGGGAAAAAGACCTTGTGTCTATG  
CTGTGCAGGAATCCACTGAGCCCCAGTAACATCCACCCTAGTTACGCCCTTCTTCTCCAAGTAGCAGCA  
ACTCCGGCTCTACAAAGGAAGTGATTGTAGTCCAGTCATGAGAAGGTCTGGAAGATACATGTCTTGTGG  
CGAAAAACACGGTGTCAAACCCCAATCCAGAACAGTATTTGACTCCTCTGCAGCAGAAGGAGGTCACA  
GTGAGGCACCTGAGGACCAAGCTGAAGGAGTCTGAGCGCCGACTCCATGAGAGGGAACTGAAATCATGG  
AGCTCAAGTCTCAGCTGGCTCGAATGAGGGAGGACTGGATTGAGGAAGAGTGCCACAGAGTGGAGGCTCA  
GTTGGCACTCAAAGAAGCCAGAAAAGAGATTAACAGCTCAAACAGGTCATCGAGACTATGAGGAGCAGC  
TTGGCTGATAAAGATAAAGGCATTGAGAAGTACTTTGTGGACATAAACATCCAAAAAAGAAACTGGAGT  
CTCTGCTTCAAAGCATGGAGATGGCACACAATAGTTCCCTGAGGGATGAACTGTGTCTTGACTTTTCCTT  
TGATTCGCCAGAGAAAAGTTTACCCTGAGCAGCACATTTGACAAGTTGCCAGATGGGTTATCTCTGGAA  
GAACAGATAACAGAGGAAGGTGCTGACAGTGAAGTCTGTTGGGGAGACAGCATGGCTGAAGGCACAGATC  
TGTTAGATGAGATGGTACTGCCACCACCACAGAATCCAGTGGCCTGGAGTTTGTTCATTCCACTCCAGG  
GCCACAAGCCCTCAAGGCTCTCCCTTGGTGAGCCACGAAGAGGGCATTGCGGTGATGGAGCAAGCCGTG  
CAGACCGACGTGGTGCCGTTAGCCCTGCCATCTCAGAGCTCATTGAGAGTGTGCTAAAGCTGCAGGACT  
ACTGTCCACAAGCTCAGCATCTCCAGATGAATCTGGAGCTGACTCGATGGAAAGCTTTCAGAATCTAT  
CTCTGCCTTAATGCTTGATTTAACTCCAAGAAGTCTTAAGTCTGAGGATCCTTCTGTCTCCTGTGGAGATC  
CCATTCAGCAAGGGGGCTATGGAAGCCATGCAAATCGCCTCATGAGAGGCTAGATTTTGCAGCCTACA  
CAGAAGAAAGATTGGACAGTGTCTCTCACTGTCCAGGGCAGTGTGTGAGGCAGTACTGGAGCAGCAA  
TTTCTTGGTGGATCTACTGGCTGTGGCTGCCCTGTGGTACCCACTGTTCTGTGGGCATTAGTACTCAG  
AGAGGGGTACAGATCCTGTCTACAACATCGGAGCTTTGCTCCGAGGTTGCTGTGTGGTGGCCCTACACT  
CACTACGCCGCACCGCTTTCACATGAAAACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAAGTTTAA

Protein Sequence: >MR209873 representing NM\_178765  
 Red=Cloning site Green=Tags(s)

MGPLRESKEQRVQHQEKEISRSRIPRLILRPHRPQQQQQQNKVSPASESPFSEESREFNPSSSGRSAR  
 TISSNSFCSDDTGCPSSQSVSPVKTPSDTGHSPIGFCPSGDEDFTRKKCRIGMVGEGSIQSARHKKEPKG  
 GIIKPGSEADFSSSSSTGSI SAPEVHMSTTGNKRASF SRNRGPHGRSNGASSHKSGSSPPSPREKDLVSM  
 LCRNPLSPSNIHPSYAPSSPSSNSGSYKGDSCSPVMRRSGRYMSCGENHGKPPNPEQYL TPLQQKEVT  
 VRHLRRTLKESERRLHERESEIMELKSQLARMREDWIEEECHRVEAQLALKEARKEIKQLKQVIETMRSS  
 LADKDKGIQKYFVDINIQNKLESL LQSMEMAHNSSLRDELCLDFSFDSPEKSLPLSSTFDKLPDGLSLE  
 EQITEEGADSELLVGDSMAEGTDL LDEMVTATTTESGLEFVHSTPGPQALKALPLVSHEEGIAVMEQAV  
 QTDVVPFSPAISELIQSVLKLQDYCPTSSASPDES GADSMESFSESISALMLDL TPRSPNSAILLSPVEI  
 PFSKGAMEAHANRLMRELDFAAYTEERLDSVLSLSQGSVVRQYWSSNFLVDLLAVAAPVPTVLWAFSTQ  
 RGGTDPVYNIGALLRGCCVVALHSLRRTAFHMKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

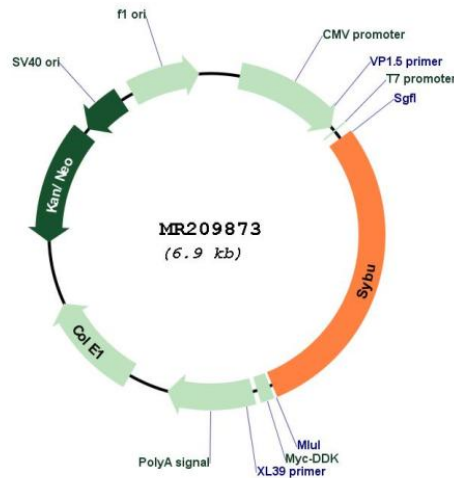
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



## Plasmid Map:



ACCN: NM\_178765

ORF Size: 1992 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\\_178765.1](#), [NM\\_178765.2](#), [NM\\_178765.3](#), [NP\\_848880.2](#)

RefSeq Size: 3152 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]