

Product datasheet for **MR222066**

Sybu (NM_176998) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sybu (NM_176998) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sybu
Synonyms:	Golsyn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR222066 representing NM_176998
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGCCCCACCTACCGTACAGAGTCTCCGGCCTCCGGCGACTGTCCCCACGTGTTCCGAAGCCCCAG
 GTGCCCGCGTGGCTCCAGAAGTCAAGAGCCGAGGGGACCGAGCGCGCTGGCAGCTGCCGCACCAC
 GTGTGCTAACCGGGCTGGCGGCGCGGGCGAGCGGGCCGGGGCTGGTTCCTCCAGCCCCAGCGCAAACCG
 CTTGCCACGCGTGTGTGCGCGGCCGGCGGCCAGTCCAGCACAAGCCTTAGGGCATTGGGGACTG
 TCTGGACAGCGCAATGGACACGGTCTGCAAAGGAAACGGTGCCTCCTCTGGACGCGCGGGCGGGCA
 GCGGGCGGTGGGAGCCGGCAGGCAGCAGCGAAATGGGGCCCTCCGAGAGAGCAAGAAGGAGCAGAGA
 GTGCAGCATCAGGAGAAAGAGATTTCCAGGAGCCGGATCCCCGGTTGATTCTGCGGCCCATCGGCCTC
 AGCAGCAGCAACAGCAGCAGAACAAGTTTCCCCAGCCTCCGAGTCTCCCTTTTCGGAGGAAGAAAGTAG
 AGAGTTCAACCCAGCAGCTCTGGACGCTCAGCAAGGACGATTAGCAGCAACAGCTTCTGCTCAGATGAC
 ACAGGTTGTCCCAGCAGCCAGTCGGTATCGCCTGTGAAGACTCCTTCAGACACAGGGCACAGTCCCATTG
 GCTTTTGCCCTGGAAGCGATGAAGACTTTACCAGGAAGAAATGCAGGATTGGAATGGTTGGTGAGGGAAG
 TATTAGTCAGCTCGTCATAAAAAAGAACCAAGGGAGGCATCATAAAGCCAGGCAGTGAAGCAGATTTT
 AGCTCCTCGAGCAGCACAGGCAGCATCTCGGCTCCTGAGTCCACATGTCCACGACAGGAAAACAAGAGAG
 CCTCTTTCTCACGAACCCAGGGCCCTCATGGGCGGAGCAATGGAGCATCATCCACAAGTCTGGCAGCAG
 CCCACCATCCCCAAGGGAAAAAGACCTTGTTCTATGCTGTGCAGGAATCCACTGAGCCCCAGTAACATC
 CACCCTAGTTACGCCCTTCTTCTCAAAGTAGCAGCAACTCCGGCTCTACAAGGAAGTGATTGTAGTC
 CAGTCATGAGAAGGTCTGGAAGATACATGTCTTGTGGCGAAAATCACGGTGTCAAACCCCAAATCCAGA
 ACAGTATTTGACTCCTCTGCAGCAGAAGGAGTACAGTGAGGCACCTGAGGACCAAGCTGAAGGAGTCT
 GAGCGCCGACTCCATGAGAGGGAATCTGAAATCATGGAGCTCAAGTCTCAGCTGGCTCGAATGAGGGAGG
 ACTGGATTGAGGAAGAGTGCCACAGAGTGGAGGCTCAGTTGGCACTCAAAGAAGCCAGAAAAGAGATTAA
 ACAGCTCAAACAGGTCATCGAGACTATGAGGAGCAGCTTGGTGATAAAGATAAAGGCATTCAGAAGTAC
 TTTGTGGACATAAACATCCAAAACAAGAACTGGAGTCTCTGCTTCAAAGCATGGAGATGGCACACAATA
 GTTCCCTGAGGGATGAAGTGTCTTGACTTTTCTTTGATTCCCAGAGAAAAGTTTACCCTGAGCAG
 CACATTTGACAAGTTGCCAGATGGTTATCTCTGGAAGAACAGATAACAGAGGAAGGTGCTGACAGTGAG
 CTTCTGGTGGGAGACAGCATGGCTGAAGGCACAGATCTGTTAGATGAGATGGTGACTGCCACCACCACAG
 AATCCAGTGGCCTGGAGTTTGTTCATTCCACTCCAGGGCCACAAGCCCTCAAGGCTCTCCCTTGGTGAG
 CCACGAAGAGGGCATTGCGGTGATGGAGCAAGCGTGCAGACCGACGTGGTGCCGTTTCAGCCCTGCCATC
 TCAGAGCTCATTAGAGTGTGCTAAAGTGCAGGACTACTGTCCCAAGCTCAGCATCTCCAGATGAAT
 CTGGAGCTGACTCGATGGAAAGCTTCTCAGAATCTATCTCTGCCTTAATGCTTGAATTAAGTCAAGAAG
 TCCTAACTCGGCCATCCTTCTGTCTCCTGTGGAGATCCCATTAGCAAGGGGGCTATGGAAGCCCATGCA
 AATCGCCTCATGAGAGAGCTAGATTTTGCAGCCTACACAGAAGAAAGATTGGACAGTGTCTCTCACTGT
 CCCAGGGCAGTGTGTGAGGCAGTACTGGAGCAGCAATTTCTGGTGGATCTACTGGCTGTGGCTGCCCC
 TGTGGTACCCACTGTTCTGTGGCATTAGTACTCAGAGAGGGGTACAGATCCTGTCTACAACATCGGA
 GCTTTGCTCCGAGTTGCTGTGGTGGCCCTACACTACTACGCCGACCGCTTTCCACATGAAAACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222066 representing NM_176998
Red=Cloning site Green=Tags(s)

MRPHLPVQSLRPPATVPTCEAPGAAVLAPEVKRPRGPERAGSCRITTCANRAGGAGGAGRGWFLQPQRKP
LATRCVAGRRPSPAQASRAFGDTVWTAQWTRSAKETVPPPGRRRRRRQRRRGEPAGSSEMGPLRESKKEQR
VQHQEKEISRSRIPRLILRPHRPQQQQQNKVSPASESPFSEESREFNPSSSGRSARTISSNSFCSD
TGCPSSQSVSPVKTPSDTGHSPIGFCPGSDEDFTRKKCRIGMVGEFSIQSARHKKEPKGGI IKPGSEADF
SSSSSTGSI SAPEVHMSTTGNKRASF SRNRGPHGRSNGASSHKSGSSPPSPREKDLVSMLCRNPLSPSNI
HPSYAPSSPSSNSGSYKGSDCSPVMRRSGRYMSCGENHGKPPNPEQYL TPLQQKEVTVRHLRRTKLKES
ERRLHERESEIMELKSQLARMREDWIEEECHRVEAQLALKEARKEIKQLKQVIETMRSSLADKDKGIQKY
FVDINIQNKKLESLLQSMEMAHNSLRDELCLDFSFDSPEKSLPLSSTFDKLPDGLSLEEQITEEGADSE
LLVGDSMAEGTDLLDEMVTATTTESGLEFVHSTPGPQALKALPLVSHEEGIAVMEQAVQTDVVVFPSPAI
SELIQSVLKLQDYCPTSSASPDES GADSMESFSESI SALMLDL TPRSPNSA ILLSPVEIPFSKGAMEAHA
NRLMRELDFAAYTEERLDSVLSLQGSVVRQYWSNFLVDLLAVAAPVVPTVLWAFSTQRGGTDPVYNIG
ALLRGCCVVALHSLRRTAFHMKT

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_176998

ORF Size: 2379 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_176998.4](#), [NP_795972.2](#)

RefSeq Size: 3255 bp

RefSeq ORF: 2382 bp

Locus ID: 319613

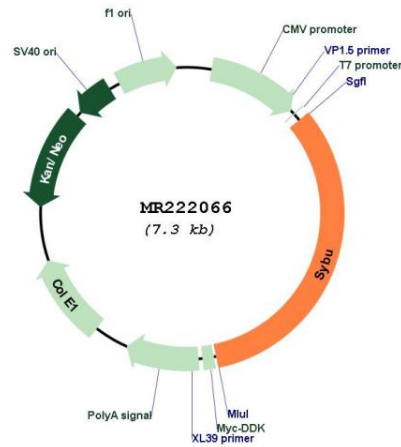
UniProt ID: [Q8BHS8](#)

Cytogenetics: 15 B3.2

MW: 87.2 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]

Product images:



Circular map for MR222066