

## Product datasheet for **MR206710**

### **Syt2 (NM\_009307) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Syt2 (NM_009307) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Syt2
Synonyms:	IP4BP; mKIAA4194; R74640; sytII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR206710 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGAAACATCTTCAAGAGGAACCAGGAGCCAAATGTGGCTCCGGCCACCACCCTGCCACAATGCCCC  
 TTGCACCCGTCGCACCTGCCGACAACTCTACAGAGAGCACGGGTCTGGGAGAGCCAAGAAGACATGTT  
 CGCCAAGCTGAAGGAGAAATTCTCAATGAGATCAACAAGATCCCCTTGCCCCCTGGGCTCTGATCGCC  
 ATGGCTGTGGTTGCTGGCCTCTGCTGCTCACCTGTTGCTTCTGCATCTGTAAGAAGTGCTGCTGCAAGA  
 AGAAGAAGAACAAGAAGGAGAAGGGCAAAGGCATGAAGAACGCCATGAACATGAAGGACATGAAAGGGGG  
 CCAGGATGACGATGATGCAGAGACAGGCCTGACTGAAGGAGAAGGTGAAGGCGAGGAGGAGAAAGAGCCA  
 GAGAACCTGGGCAAATTGCAGTTTTCTCTGGACTATGATTTCCAGGCCAACAGCTCACCGTGGGTGTC  
 TGCAGGCTGCGGAACTCCAGCCCTGGACATGGGTGGCACATCAGACCCTTATGTCAAAGTCTTCTCTCT  
 CCCAGACAAGAAGAAGAAATATGAGACTAAGGTGCATCGGAAGACGCTGAACCCAGCCTTCAATGAGACA  
 TTCACTTTCAAGGTGCCATACCAGGAGTTAGGAGGCAAGACCCTGGTGATGGCAATCTATGACTTTGACC  
 GCTTCTCTAAGCATGACATCATCGGGGAGGTGAAGGTACCCATGAACACAGTGGACCTTGGCCAGCCAT  
 CGAGGAATGGAGAGACCTACAAGGCGGAGAGAAGGAAGAGCCAGAGAAGTTGGGTGACATCTGTACCTCC  
 TTGCGCTACGTGCCACAGCTGGGAAGCTCACCGTCTGTATCCTGGAGGCCAAGAACCTGAAGAAGATGG  
 ATGTAGGGGGCCTTTAGACCCCTATGTGAAGTCCACCTGATGCAGAACGGTAAGAGACTCAAGAAGAA  
 GAAGACGACAGTGAAGAAGAAGACCCTGAACCCCTACTTCAACGAGTCTTCAGCTTCGAGATCCCCTTT  
 GAGCAGATCCAGAAAGTCCAGGTGGTTCGTCACCGTGTAGACTACGACAACTGGGCAAGAATGAAGCCA  
 TCGGAAAGATCTTTGTAGGCAGCAACGCCACAGGCACCGAGTTGCGGCACTGGTCCGACATGCTGGCCAA  
 CCCTCGGAGGCCATTGCCAGTGGCACTCTCTTAAGCCTGAGGAAGAAGTGGATGCTCTCTGGGCAAG  
 AACAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR206710 protein sequence  
 Red=Cloning site Green=Tags(s)

MRNIFKRNQEPNVAPATTTATMPLAPVAPADNSTESTGPGESQEDMFAKLKEKFFNEINKIPLPPWALIA  
 MAVVAGLLLLTCCFCICKKCCCKKKKKEKKGKGMKNAMNMDKMGQDDDDAETGLTEGEGEKEEKEP  
 ENLGKLFSLDYDFQANQLTVGVLQAAELPALDMGGTSDPYVKVFLLPDKKKKYETKVHRKTLNPAFNET  
 FTFKVPYQELGGKTLVMAIYDFDRFSKHDIIIGEVKVMNTVDLQPIEWRDLQGGEKEEPEKLDICTS  
 LRYVPTAGKLTVCILEAKNLKMDVGGLSDPYVKIHLMQNGKRLKKKKTIVKKKTLNPFNFESFSFEIPF  
 EQIQKVQVVVTVLDYDKLGKNEAIGKIFVGSNATGTEL RHWSM LANPRRPIAQWHS LKPEEEVDALLGK  
 NK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



ACCN: NM\_009307

ORF Size: 1269 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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).

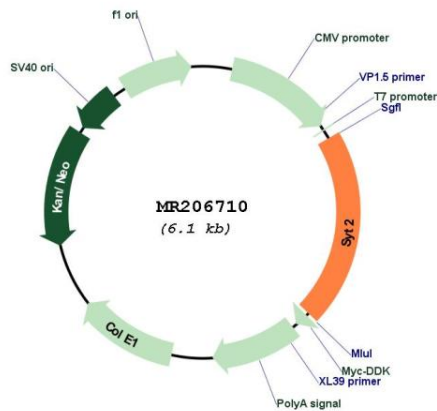
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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\\_009307.4](#)

RefSeq Size: 3386 bp  
 RefSeq ORF: 1269 bp  
 Locus ID: 20980  
 UniProt ID: [P46097](#)  
 Cytogenetics: 1 58.24 cM  
 MW: 47.2 kDa

**Gene Summary:** This gene encodes a member of the synaptotagmin protein family. Synaptotagmin proteins are involved in membrane trafficking and are characterized by an N-terminal transmembrane region as well as tandem calcium binding domains. The encoded protein is able to bind inositol polyphosphate and is thought to be involved in synaptic function and neurotransmitter release. [provided by RefSeq, Sep 2017]

**Product images:**



Circular map for MR206710