

## Product datasheet for **MC207414**

### **Syt2 (NM\_009307) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Syt2 (NM_009307) Mouse Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >MC207414 representing NM\_009307  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGAAACATCTTCAAGAGGAACCAGGAGCCAAATGTGGCTCCGGCCACCACCCTGCCACAATGCCCC  
 TTGCACCCGTCGCACCTGCCGACAACTCTACAGAGAGCACGGGTCTGGGGAGAGCCAAGAAGACATGTT  
 CGCCAAGCTGAAGGAGAAATCTTCAATGAGATCAACAAGATCCCCTTGGCCCCCTGGGCTCTGATCGCC  
 ATGGCTGTGGTTGCTGGCCTCTGCTGCTCACCTGTTGCTTCTGCATCTGTAAGAAGTGCTGCTGCAAGA  
 AGAAGAAGAACAAGAAGGAGAAGGGCAAAGGCATGAAGAACGCCATGAACATGAAGGACATGAAAGGGGG  
 CCAGGATGACGATGATGCAGAGACAGGCCTGACTGAAGGAGAAGGTGAAGGCGAGGAGGAAAGAGCCA  
 GAGAACCTGGGCAAATTCAGTTTTCTCTGGACTATGATTTCCAGGCCAACAGCTCACCGTGGGTGTC  
 TGCAGGCTGCGGAATCCAGCCCTGGACATGGGTGGCACATCAGACCCTTATGTCAAAGTCTTCTCTCT  
 CCCAGACAAGAAGAAGAAATATGAGACTAAGGTGCATCGGAAGACGCTGAACCCAGCCTTCAATGAGACA  
 TTCACTTTCAAGGTGCCATACCAGGAGTTAGGAGGCAAGACCCTGGTGATGGCAATCTATGACTTTGACC  
 GCTTCTCTAAGCATGACATCATCGGGGAGGTGAAGGTACCCATGAACACAGTGGACCTTGCCAGGCCAT  
 CGAGGAATGGAGAGACCTACAAGGCGGAGAGAAGGAAGAGCCAGAGAAGTTGGGTGACATCTGTACCTCC  
 TTGCGCTACGTGCCACAGCTGGGAAGCTCACCGTCTGTATCCTGGAGGCCAAGAACCTGAAGAAGATGG  
 ATGTAGGGGGCCTTTAGACCCCTATGTGAAGATCCACCTGATGCAGAACGGTAAGAGACTCAAGAAGAA  
 GAAGACGACAGTGAAGAAGAAGACCCTGAACCCCTACTTCAACGAGTCTTCAGCTTCGAGATCCCCTTT  
 GAGCAGATCCAGAAAGTCCAGGTGGTCTCACCGTCTAGACTACGACAAACTGGGCAAGAATGAAGCCA  
 TCGGAAAGATCTTTGTAGGCAGCAACGCCACAGGCACCGAGTTGGGCACTGGTCCGACATGCTGGCCAA  
 CCCTCGGAGGCCATTGCCAGTGGCACTCTCTTAAGCCTGAGGAAGAAGTGGATGCTCTCTGGGCAAG  
 AACAAAGTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2144\\_d07.zip](https://cdn.origene.com/chromatograms/ja2144_d07.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_009307

**Insert 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](#)

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">BC027019</a></u> , <u><a href="#">AAH27019</a></u>
<b>RefSeq Size:</b>	3386 bp
<b>RefSeq ORF:</b>	1269 bp
<b>Locus ID:</b>	20980
<b>UniProt ID:</b>	<u><a href="#">P46097</a></u>
<b>Cytogenetics:</b>	1 58.24 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>