

## Product datasheet for **SC310232**

### **BIN1 (NM\_139343) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BIN1 (NM_139343) Human Untagged Clone
Tag:	Tag Free
Symbol:	BIN1
Synonyms:	AMPH2; AMPHL; CNM2; SH3P9
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_139343 edited

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GCGGCGTGGAGCGGCAGCCGGTCTGGACGCGCGCCGGGGCTGGGGGCTGGGAGCGCGG
GCGCAAGATCTCCCCGCGGAGAGCGGCCCTGCCACCGGGCGAGGCCTGCGCCGCGATG
GCAGAGATGGGCAGTAAAGGGGTGACGGCGGGAAGATCGCCAGCAACGTGCAGAAGAAG
CTACCCGCGCGCAGGAGAAGGTTCTCCAGAAGCTGGGGAAGGCAGATGAGACCAAGGAT
GAGCAGTTTGAGCAGTGGTCCAGAATTTCAACAAGCAGCTGACGGAGGGCACCCGGCTG
CAGAAGGATCTCCGACCTACCTGGCCTCCGTCAAAGCCATGCACGAGGCTTCCAAGAAG
CTGAATGAGTGTCTGCAGGAGGTATGAGCCCGATTGGCCCGCAGGGATGAGGCAAAAC
AAGATCGCAGAGAACAACGACCTGCTGTGGATGGATTACCACCAGAAGCTGGTGGACCAG
GCGCTGTGACCATGGACACGTACCTGGGCCAGTTCCTCCGACATCAAGTCACGCATTGCC
AAGCGGGGGCGCAAGCTGGTGGACTACGACAGTGGCCGGCACCCTACGAGTCCCTTCAA
ACCGCCAAAAAGAAGGATGAAGCCAAATTTGCCAAGCCTGTCTCGCTGCTTGAGAAAGCC
GCCCCCAGTGGTGCCAAGGCAAACTGCAGGCTCATCTCGTAGCTCAAATAACCTGCTC
CGAAATCAGGCCGAGGAGGAGCTCATCAAAGCCAGAAGGTGTTTGAGGAGATGAATGTG
GATCTGCAGGAGGAGCTGCCGCTCCTGTGGAACAGCCGCTAGGTTTCTACGTCAACACG
TTCCAGAGCATCGCGGGCTGGAGGAAAATTTCCACAAGGAGATGAGCAAGCTCAACCAG
AACCTCAATGATGTGCTGGTGGCCTGGAGAAGCAACACGGGAGCAACACCTTACGGTC
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GGCTCCCTGCCGCCACCCCGAGATCAGAGTCAACCAGAGCCAGAGCCGGCTGGCGGG
GCCACGCCCGGGGCCACCTCCCAAGTCCCATCTCAGCTCCGAAAGGCCACCAAGTC
CCTCCGCTCCCAACACACCCCGTCCAAGGAAGTCAAGCAGGAGCAGATCCTCAGCCTG
TTTGAGGACACGTTTGTCCCTGAGATCAGCGTGACCAACCCCTCCAGTTTGAGGCCCG
GGGCTTTTCTCGAGCAGGCCAGTCTGCTGGACCTGGACTTTGACCCCTCCCGCCGCTG
ACGAGCCCTGTGAAGGCACCCACGCCCTCTGGTCAAGTCAATTCTTGGACCTCTGGGAG
CCCACAGAGAGTCCAGCCGGCAGCCTGCCTTCCGGGGAGCCAGCGCTGCCGAGGGCACC
TTTGCTGTGCTCTGGCCAGCCAGACGGCCGAGCCGGGGCTGCCCAACCAGCAGAGGCC
TCGGAGGTGGCGGTGGGACCAACCTGCGGCTGGAGCCAGGAGCCAGGGGAGACGGCG
GCAAGTGAAGCAGCCTCCAGCTCTCTTCTGCTGTCGTGGTGGAGACCTTCCAGCAACT
GTGAATGGCACCCTGGAGGGCGGAGTGGGGCCGGGCGCTTGACCTGCCCCAGGTTTC
ATGTTCAAGGTACAGGCCAGCACGACTACACGGCCACTGACACAGACGAGCTGCAGCTC
AAGGCTGGTATGTGGTGTGGTATCCCTTCCAGAACCTGAAGAGCAGGATGAAGGC
TGCTCATGGGCGTGAAGGAGAGCGACTGGAACAGCACAAAGAGCTGGAGAAAGTCCGT
GGCGTCTTCCCCGAGAACTTCACTGAGAGGGTCCCATGACGGCGGGGCCAGGCAGCCTC
CGGGCGTGTGAAGAACACCTCCTCCGAAAAATGTGTGGTTCTTTTTTTTGTGTTTTT
CGTTTTTCATCTTTTGAAGAGCAAAGGGAATCAAGAGGAGACCCCAAGGAGAGGGGCG
TTCTCCCAAGATTAGGTCGTTTTTCAAAGAGCCGCTCCCGCAAGTCCGGCGGAATTC
ACCAAGTGTCTGAAGCTGCTGTGCTCTAGTTGAGTTTCTGGCGCCCTGCCTGTGCC
CGCATGTGTGCTGGCCGAGGGCGGGGCTGGGGGCTGCCGAGCCACCATGCTTGCTGA
AGCTTCGGCCGCGCCACCCGGGCAAGGGTCTCTTTTCTGGCAGCTGCTGTGGTGGGG
CCCAGACACAGCCTAGCCTGGCTCTGCCCGCAGACGGTCTGTGTGCTGTTTGAATAA
AATCTTAGTGTTCAAAACAAATGAAACAAAAA

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**Restriction Sites:** Please inquire

**ACCN:** NM\_139343

**Insert Size:** 2400 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_139343.1</a> , <a href="#">NP_647593.1</a>
<b>RefSeq Size:</b>	2637 bp
<b>RefSeq ORF:</b>	1782 bp
<b>Locus ID:</b>	274
<b>UniProt ID:</b>	<a href="#">O00499</a>
<b>Cytogenetics:</b>	2q14.3

**Gene Summary:**

This gene encodes several isoforms of a nucleocytoplasmic adaptor protein, one of which was initially identified as a MYC-interacting protein with features of a tumor suppressor. Isoforms that are expressed in the central nervous system may be involved in synaptic vesicle endocytosis and may interact with dynamin, synaptojanin, endophilin, and clathrin. Isoforms that are expressed in muscle and ubiquitously expressed isoforms localize to the cytoplasm and nucleus and activate a caspase-independent apoptotic process. Studies in mouse suggest that this gene plays an important role in cardiac muscle development. Alternate splicing of the gene results in several transcript variants encoding different isoforms. Aberrant splice variants expressed in tumor cell lines have also been described. [provided by RefSeq, Mar 2016]

Transcript Variant: This variant (1) encodes the longest isoform, which is cytoplasmic. Isoform 1, also called IIa and S11R3-a, binds dynamin, synaptojanin, and clathrin. This isoform is expressed exclusively in the brain and is concentrated in nerve terminals.