

## Product datasheet for **SC100091**

### **BIN1 (NM\_139351) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BIN1 (NM_139351) Human Untagged Clone
Tag:	Tag Free
Symbol:	BIN1
Synonyms:	AMPH2; AMPHL; CNM2; SH3P9
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_139351, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGAGATGGGCAGTAAAGGGGTGACGGCGGAAAGATCGCCAGCAACGTGCAGAAGAAGCTCACCC
GCGCGCAGGAGAAGGTTCTCCAGAAGCTGGGGAAGGCAGATGAGACCAAGGATGAGCAGTTTGAGCAGTG
CGTCCAGAATTTCAACAAGCAGCTGACGGAGGGCACCCGGCTGCAGAAGGATCTCCGGACCTACCTGGCC
TCCGTCAAAGCCATGCACGAGGCTTCCAAGAAGCTGAATGAGTGTCTGCAGGAGGTGATGAGCCCGATT
GGCCCGCAGGGATGAGGCAACAAGATCGCAGAGAACAACGACCTGCTGTGGATGGATTACCACCAGAA
GCTGGTGGACCAGGCGTGTGACCATGGACACGTACCTGGGCCAGTTCCCGACATCAAGTCACGCATT
GCCAAGCGGGGGCAGCTGGTGGACTACGACAGTGCCCGGCACCACTACGAGTCCCTTCAAAGTCCCA
AAAAGAAGGATGAAGCCAAAATTGCCAAGGCCGAGGAGGAGCTCATCAAAGCCCAGAAGGTGTTGAGGA
GATGAATGTGGATCTGCAGGAGGAGCTGCCGTCCTGTGGAACAGCCGCTAGGTTTCTACGTCAACACG
TTCCAGAGCATCGCGGGCCTGGAGGAAAATTCACAAGGAGATGAGCAAGCTCAACCAGAACCTCAATG
ATGTGCTGGTCCGGCTGGAGAAGCAACCGGGAGCAACACCTTACGGTCAAGGCCAGCCAGTACAGAA
CGCGCCTGCAAAAGGGAACAAGAGCCCTTCGCCTCCAGATGGCTCCCCTGCCGCCACCCCGAGATCAGA
GTCAACCACGAGCCAGAGCCGGCCGGGGCCACGCCGGGGCCACCCTCCCAAGTCCCATCTCAGA
GCTCTCTTCTGCTGTCTGTTGGTGGAGACCTTCCAGCAACTGTGAATGGCACCGTGGAGGGCGGCAGTGG
GGCCGGGCGCTTGACCTGCCCCAGGTTTCATGTTCAAGGTACAGGCCACGACTACACGGCCACT
GACACAGACGAGCTGCAGCTCAAGGCTGGTGTGTGGTGTGATGATGATGATGATGATGATGATGATGATG
AGGATGAAGGCTGGCTCATGGGCGTGAAGGAGAGCGACTGGAACACGACAAGGAGCTGGAGAAGTGCCG
TGGCGTCTTCCCAGAACTTCACTGAGAGGGTCCCATGA

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Restriction Sites:	NotI-NotI
ACCN:	NM_139351



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Insert Size:	2000 bp
OTI Disclaimer:	<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>
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:	<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>
RefSeq:	<a href="#">NM_139351.1</a> , <a href="#">NP_647601.1</a>
RefSeq Size:	2134 bp
RefSeq ORF:	1230 bp
Locus ID:	274
UniProt ID:	<a href="#">O00499</a>
Cytogenetics:	2q14.3
Domains:	SH3, BAR, BAR

**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 (10) lacks six in-frame exons in the coding region, compared to variant 1. Isoform 10, also called BIN1-10-13, is shorter than isoform 1 and is ubiquitously expressed.