

Product datasheet for **SC128163**

BIN1 (NM_139350) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BIN1 (NM_139350) Human Untagged Clone
Tag:	Tag Free
Symbol:	BIN1
Synonyms:	AMPH2; AMPHL; CNM2; SH3P9
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_139350 edited
 GCGGCGTGGAGCGGCAGCCGGTCTGGACGCGCGCCGGGGCTGGGGCTGGGAGCGCGG
 GCGCAAGATCTCCCCGCGGAGAGCGGCCCTGCCACCGGGCGAGGCCTGCGCCGCGATG
 GCAGAGATGGGCAGTAAAGGGGTGACGGCGGGAAAAGATCGCCAGCAACGTGCAGAAGAAG
 CTCACCCGCGCGCAGGAGAAGGTTCTCCAGAAGCTGGGAAGGCAGATGAGACCAAGGAT
 GAGCAGTTTGGCAGTGCCTCAGAATTTCAACAAGCAGCTGACGGAGGGCACCCGGTG
 CAGAAGGATCTCGGACCTACCTGGCTCCGTCAAAGCCATGCACGAGGCTTCCAAGAAG
 CTGAATGAGTGTCTGCAGGAGGTATGAGCCGATTGGCCCGCAGGGATGAGGCAAAC
 AAGATCGCAGAGAACAACGACCTGCTGTGGATGGATTACCACCAGAAGCTGGTGGACCAG
 GCGCTGTGACCATGGACACGTACCTGGGCCAGTTCGCCGACATCAAGTACGCATTGCC
 AAGCGGGGGCGAAGCTGGTGGACTACGACAGTGCACCGGACCACTACGAGTCCCTTCAA
 ACCGCCAAAAGAAGGATGAAGCCAAAATTGCCAAGGCCGAGGAGGACTCATCAAGCC
 CAGAAGGTGTTTGGAGAGATGAATGTGGATCTGCAGGAGGAGCTGCCGTCCCTGTGGAAC
 AGCCGCGTAGGTTTCTACGTCAACACGTTCCAGAGCATCGCGGGCTGGAGGAAAATTC
 CACAAGGAGATGAGCAAGCTCAACCAGAACCTCAATGATGTGCTGGTTCGGCTGGAGAAG
 CAACACGGGAGCAAACCTTACCGTCAAGGCCAGCCAGTGAACCGCCTGCAAAA
 GGGAAACAAGGCCCTTCGCCTCCAGATGGCTCCCTGCCGCCACCCCGAGATCAGAGTC
 AACCACGAGCCAGAGCCGGCTGGCGGGCCACGCCGGGGCCACCCTCCCCAAGTCCCCA
 TCTCAGCCAGCAGAGGCCCTCGGAGGTGGCGGGTGGGACCAACCTGCGGCTGGAGCCCAG
 GAGCCAGGGGAGACGGCGGCAAGTGAAGCAGCTCCAGCTCTTCTCTGTGTGCTGGT
 GAGACCTCCAGCAACTGTGAATGGCACCGTGGAGGGCGGCAGTGGGGCCGGCGCTTG
 GACCTGCCCCAGGTTTCATGTTCAAGGTACAGGCCAGCAGACTACACGGCCACTGAC
 ACAGACGAGCTGCAGCTCAAGGCTGGTGTGTTGCTGGTGTATCCCTTCCAGAACCCT
 GAAGAGCAGGATGAAGGCTGGCTCATGGCGTGAAGGAGAGCGACTGGAACCAGCACAAG
 GAGCTGGAGAAGTGCCGTGGCGTCTTCCCCGAGAACTTCACTGAGAGGGTCCCATGACGG
 CGGGGCCAGGACGCTCCGGCGTGTGAAGAACACCTCTCCGAAAAATGTGTGGTTC
 TTTTTTTGTTTTGTTTTCGTTTTTTCATTTTTGAAGAGCAAAGGGAAATCAAGAGGAGA
 CCCCCAGGAGAGGGCGTTCTCCCAAAGATTAGGTCGTTTTCAAAGAGCCGCGTCCCC
 GCAAGTCCGGCGAATTCACCAGTGTTCCTGAAGCTGCTGTGCTCTAGTTGAGTTTCT
 GGGCCCTCGCTGTGCCCGCATGTGTGCTGGCCGAGGGCGGGCTGGGGCTGCCGA
 GCCACCATGCTTGCTGAAGCTTCGGCCGCGCCACCCGGGCAAGGGTCCCTTTTTCTGG
 CAGCTGCTGTGGGTGGGCCCCAGACACCAGCCTAGCCTGGCTCTGCCCGCAGACGGTCT
 GTGTGCTGTTGAAAATAAATCTTAGTGTTCAAAACAAAATGAAACAAAAAATAATGA
 TAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_139350 unedited
 CCCAGTCGGAATTGTATACGATCATATGGGCGGCTGCGAATCGGCACCAGGCGGCTGG
 AGCGGCAGCCGGTCTGGACGCGCGCGGGCTGGGGCTGGGAGCGCGCGCGCAAGAA
 CTCCCCGCGGAGAGCGGTCCCTGCCACCGGGCGAGGGCTGCGCCGCGATGGCAGAGATG
 GGCAGTAAAGGGGTGACGGCGGGAAAGATTGTCATCAACGTGCAGAAGAAGCTCACCCGC
 GCGCTAGAGTAAGTTCTCCAGAAGCTGGGAAGGCAGATGAGACCAAGGATGAACAGTTT
 GAGCAGTGCCTCAGAATTTCAACAAGCAGCTGACGGAGGGCACCCGGCTGCAGAAGGAG
 CTCCGGACCTACCTGGGCTCCGTCAAAGCCATGCACGAGGCTTCCAAGAAGCTGAATGAG
 TGCTGACAGGAGTGTATGAGCCGATTGGCCCGCGGGATGAGGCAACAAGATCGCAGA
 GAACAACGACCTGCTGTGGATGGATTACCACCAGAGACTGATGGACCAGCGCTGGTGACC
 ATGGACACGTACCTGGGCCAGTTTCCCGACATCAAGTTACGCATTGCCAACCGGTGGCTC
 AGGCCTGGTGGACTACCACAGTGCCCGGCGCATTACCAGTTCCTTTAAACCGGCCAAA
 CGAAGGATGAAGCCAAAATGGCAAGGCCGAGGAGGAGCTCATCTAAACCTACAGGGTGT
 TTGAGGAGAAAGAGTGGAACTGTCAGAGGGGCTGCCGTCCCTGTGAAAAACCGCTGG
 GTTTTTAAGTAACCCGTTCCAAGCATTGCGCCCTGGGGGAAGAACTTCCAGGGGGATG
 GGCAGGTTCCACCCAACCTCANGAAGGGCTGGTTCGGCCTGGGAGAAGAAAACGGGAGC
 AACACCTTCGGGCAGGGCTCACCTAAGGCAACCGCCCTG

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_139350 unedited NAAATCTTGNACGCGCCGCAATCTANGATCCGGTTTTTTTTTTTTTTTTTTTTTTTTTTA TCATTTTTTTTTTTGTTTCATTTTGTGTTTGAACACTAAGATTTATTTTCAAACAGCACAC AGACCGTCTGCGGGGACAGCCAGGCTAGGCTGGTGTCTGGGCCCCACCCACAGCAGCTG CCAGGAAAAGAGGACCCTTGCCCGGGTGGCGCGCCGAAGCTTCAGGCAAGCATGGTGCC TCGGCAGCCCCAGCCCCGCCCTGCGGCCAGGCACACATGCGGGCACAGGCAGGGGCGCC AGAAACTCAACTAGAGGACACAGCAGCTTCAGGAACACTGGTGAATTCGCGCGACTTGC CGGGACGCGGCTCTTGGAAAACGACCTAATCTTTGGGAGAACGCCCTCTGCCTGGGGG TCTCCTTTGATTCCCTTTGCTCTTCAAAGATGAAAAACGAAAAACAAAAACAAAAA GAACCACACATTTTTCGGGAGGAGGTGTTCTTACACGCCCGGAGGCTGCCTGGGCCCCG CCGTCATGGGACCCTCTCAGTGAAGTTCTCGGGGAAGACGCCACGGCACTTCTCCAGCTC CTTGTGCTGGTCCAGTCGCTCTCTTACGCCCATGAGCCAGCCTTCATCCTGCTCTTC AGGTTTCTGGGAAGGGATCACCAGCACCATCACCAGCCTTGAAGTGCAGCTCGTCTGT GTCAGTGGCCGGTATTCGTGCTGGCCGTACCTTGGACATGAAAACGGGGGGCAGGT TCCAGCGCCCGGCCCAATGCCCGCCCTTCCAGGGGCAATTTCCAGGTGCTGGGGAAG GTCTCCCCACAACGCCGGAAGCTGGAGGCTTGGTTACTTGGCCGCGTCTCCCT GGTT
Restriction Sites:	Please inquire
ACCN:	NM_139350
Insert Size:	1900 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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"> 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:	<u>NM_139350.1</u> , <u>NP_647600.1</u>
RefSeq Size:	2165 bp
RefSeq ORF:	1320 bp
Locus ID:	274
UniProt ID:	<u>O00499</u>

Cytogenetics: 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 (9) lacks five in-frame exons in the coding region, compared to variant 1. Isoform 9, also called BIN1-10, is shorter than isoform 1 and is ubiquitously expressed.