

Product datasheet for **SC313665**

BIN1 (NM_139348) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BIN1 (NM_139348) Human Untagged Clone
Tag:	Tag Free
Symbol:	BIN1
Synonyms:	AMPH2; AMPHL; CNM2; SH3P9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC313665 representing NM_139348.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAGAGATGGGCAGTAAAGGGGTGACGGCGGGAAAGATCGCCAGCAACGTGCAGAAGAAGTCACC
CGCGCGCAGGAGAAGTTCTCCAGAAGCTGGGGAAGGCAGATGAGACCAAGGATGAGCAGTTTGAGCAG
TGCGTCCAGAATTTCAACAAGCAGCTGACGGAGGGCACCCGGCTGCAGAAGGATCTCCGGACCTACCTG
GCCTCCGTCAAAGCCATGCACGAGGCTTCCAAGAAGCTGAATGAGTGTCTGCAGGAGGTGTATGAGCCC
GATTGGCCCGGCAGGGATGAGGCAACAAGATCGCAGAGAACAACGACCTGCTGTGGATGGATTACCAC
CAGAAGCTGGTGGACCAGGCGCTGCTGACCATGGACACGTACCTGGGCCAGTTCCCCGACATCAAGTCA
CGCATTGCCAAGCGGGGCGCAAGCTGGTGGACTACGACAGTGCCCGGCACCACTACGAGTCCCTTCAA
ACTGCCAAAAAGAAGGATGAAGCCAAAATTGCCAAGGCCGAGGAGGAGCTCATAAAGCCCAGAAGGTG
TTTGAGGAGATGAATGTGGATCTGCAGGAGGAGCTGCCGTCCCTGTGGAACAGCCGCTAGGTTTCTAC
GTCAACACGTTCCAGAGCATCGCGGCCCTGGAGGAAAATTCACAAGGAGATGAGCAAGCTCAACCAG
AACCTCAATGATGTGCTGGTCCGGCTGGAGAAGCAACACGGGAGCAACACCTTCACGGTCAAGGCCAG
CCCAGTGACAACGCGCTGCAAAAGGGAACAAGAGCCCTTCGCCTCCAGATGGTCCCCCTGCCGCCACC
CCCAGATCAGAGTCAACCACGAGCCAGAGCCGGCCGGCGGGGCCACGCCGGGGGCCACCTCCCCAAG
TCCCCATCTCAGTCCGGAAGGCCACCAAGTCCCTCCGCTCCCAAACACCCCGTCCAAGGAAGTC
AAGCAGGAGCAGATCCTCAGCCTGTTTGAGGACACGTTTGTCCCTGAGATCAGCGTGACCAACCCCTCC
CAGCCAGCAGAGGCTCGGAGGTGGCGGGTGGGACCAACCTGCGGCTGGAGCCAGGAGCCAGGGGAG
ACGGCGGCAAGTGAAGCAGCCTCCAGCTCTCTTCTGCTGTGCTGGTGGAGACCTTCCAGCAACTGTG
AATGGCACCGTGGAGGGCGCAGTGGGGCCGGCGCTTGGACCTGCCCCAGGTTTCATGTTCAAGGTA
CAGGCCCAGCAGACTACACGGCCATGACACAGACGAGCTGCAGCTCAAGGCTGGTGTGTTGCTG
GTGATCCCTTCCAGAACCCTGAAGAGCAGGATGAAGGCTGGCTCATGGGCGTGAAGGAGAGCGACTGG
AACCAGACAAGGAGCTGGAGAAGTGCCGTGGCTCTTCCCCGAGAACTTCACTGAGAGGGTCCCATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_139348

Insert Size: 1449 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:

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_139348.2](#)

RefSeq Size: 2353 bp

RefSeq ORF: 1449 bp

Locus ID: 274

UniProt ID: [O00499](#)

Cytogenetics: 2q14.3

MW: 53 kDa

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 (6) lacks four in-frame exons in the coding region, compared to variant 1. Isoform 6, also called subtype 2, is shorter than isoform 1.