

Product datasheet for **RC220682**

BIN1 (NM_139347) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BIN1 (NM_139347) Human Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide
Sequence:

>RC220682 representing NM_139347
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGAGATGGGCAGTAAAGGGGTGACGGCGGAAAGATCGCCAGCAACGTGCAGAAGAAGCTCACCC
GCGCGCAGGAGAAGTTCTCCAGAAGCTGGGGAAGGCAGATGAGACCAAGGATGAGCAGTTTGAGCAGTG
CGTCCAGAATTTCAACAAGCAGCTGACGGAGGGCACCCGGCTGCAGAAGGATCTCCGGACCTACCTGGCC
TCCGTCAAAGCCATGCACGAGGCTTCCAAGAAGCTGAATGAGTGTCTGCAGGAGGTGATGAGCCCGATT
GGCCCGCAGGGATGAGGCAAACAAGATCGCAGAGAACAACGACCTGCTGTGGATGGATTACCACCAGAA
GCTGGTGGACCAGGCGTGTGACCATGGACACGTACCTGGGCCAGTTCCCGACATCAAGTCACGCATT
GCCAAGCGGGGCGCAAGCTGGTGGACTACGACAGTCCCGGCACCACTACGAGTCCCTTCAAAGTCCCA
AAAAGAAGGATGAAGCCAAAATTGCCAAGGCCGAGGAGGAGCTCATCAAAGCCCAGAAGGTGTTGAGGA
GATGAATGTGGATCTGCAGGAGGAGCTGCCGTCCCTGTGGAACAGCCGCTAGGTTTCTACGTCAACACG
TTCCAGAGCATCGCGGGCTGGAGGAAAATTCACAAGGAGATGAGCAAGCTCAACCAGAACCTCAATG
ATGTGCTGGTCCGCTGGAGAAGCAACACGGGAGCAACACCTTACGGTCAAGGCCACGCCAGTACAA
CGCGCCTGCAAAAAGGGAACAAGAGCCCTTCGCCTCCAGATGGCTCCCCTGCCGCCACCCCGAGATCAGA
GTCAACCACGAGCCAGAGCCGGCCGGCGGGGCCACGCCGGGGCCACCCTCCCAAGTCCCACATCTCAGC
TCCGGAAGGCCACCAGTCCCTCCGCCTCCAAAACACACCCCGTCAAGGAAGTCAAGCAGGAGCAGAT
CCTCAGCCTGTTTGGAGACGTTTGTCCCTGAGATCAGCGTGACCACCCCTCCAGCCACAGAGAGT
CCAGCCGGCAGCCTGCCTCCGGGAGCCAGCGCTGCCGAGGGCACCTTTGCTGTCTCTGGCCAGCC
AGAGCCCGAGCCGGGGCTGCCAACACAGCAGGGCTCGGAGGTGGCGGTGGACCCAACTGCGGC
TGGAGCCAGGAGCCAGGGGAGACGGCGCAAGTGAAGCAGCCTCCAGCTCTTCTCTGCTGCTCGTGGTG
GAGACCTTCCAGCAACTGTGAATGGCACCGTGGAGGGCGCAGTGGGGCCGGCGCTTGGACCTGCCCC
CAGGTTTCATGTTCAAGGTACAGGCCAGCAGCTACACGGCCACTGACACAGACGAGCTGCAGCTCAA
GGCTGGTGTGGTGTGGTATCCCCTTCCAGAACCCTGAAGAGCAGGATGAAGGCTGGCTCATGGGC
GTGAAGGAGAGCGACTGGAACCAGCACAAGGAGCTGGAGAAGTCCGTGGCGTCTCCCCGAGAACTTCA
CTGAGAGGGTCCCA

ACGCGTACGCGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC220682 representing NM_139347
Red=Cloning site Green=Tags(s)

MAEMGSKGVTAGKIASNVQKKLTRAQEKVLQKLGADETKDEQFEQCVQNFNKQLTEGTRLQKDLRITYLA
SVKAMHEASKKLNECLQEYEPDWPGRDEANKIAENNDLLWMDYHQKLVQALLTMDTYLQFPDIKSRI
AKRGRKLVYDSARHHYESLQTAKKKDEAKIAKEEELIKAQKVFEEMNVDLQEELPSLWNSRVGFYVNT
FQSIAGLEENFHKEMSKLNQNLNDVLVGLEKQHGSNFTVKAQPSDNAPAKGNKSPSPDGSPAATPEIR
VNHEPEPAGGATPGATLPKSPSRLKQPPVPPPKHTPSKEVKQEILSLFEDTFVPEISVTTSPQPTES
PAGSLPSGEPSSAAEGTFVSWPSQTAEPGPAQPAEASEVAGGTQPAAGAQPGETAASEAASSSLPAVVV
ETFPATVNGTVEGGSGAGRLDLPFGFMKVQAQHDYATDDELQLKAGDVVLLVIFQNPPEEQDEGWL
MGVKESDWNQHKLEKCRGVFPENF TERVP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8064_g07.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_139347

ORF Size: 1554 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_139347.3](#)
RefSeq Size: 2412 bp

RefSeq ORF: 1557 bp

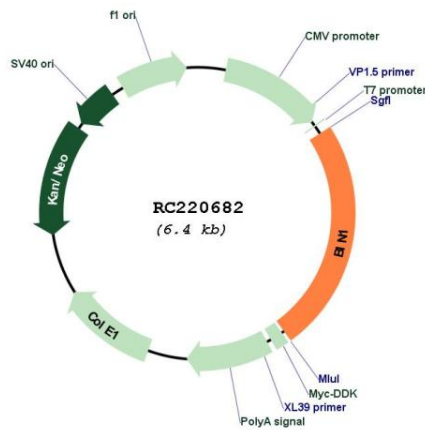
Locus ID: 274

UniProt ID: [O00499](#)
Cytogenetics: 2q14.3

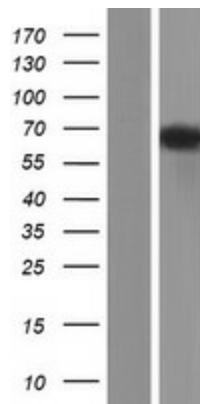
MW: 56.3 kDa

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]

Product images:



Circular map for RC220682



Western blot validation of overexpression lysate (Cat# [LY408306]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220682 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).