

Product datasheet for **RG220616**

BIN1 (NM_004305) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BIN1 (NM_004305) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BIN1
Synonyms:	AMPH2; AMPHL; CNM2; SH3P9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG220616 representing NM_004305
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAGAGATGGGCAGTAAAGGGGTGACGGCGGAAAGATCGCCAGCAACGTGCAGAAGAAGCTCACCC
 GCGCGCAGGAGAAGTTCTCCAGAAGCTGGGGAAGGCAGATGAGACCAAGGATGAGCAGTTTGAGCAGTG
 CGTCCAGAATTTCAACAAGCAGCTGACGGAGGGCACCCGGCTGCAGAAGGATCTCCGGACCTACCTGGCC
 TCCGTCAAAGCCATGCACGAGGCTTCCAAGAAGCTGAATGAGTGTCTGCAGGAGGTGATGAGCCCGATT
 GGCCCGCAGGGATGAGGCAAACAAGATCGCAGAGAACAACGACCTGCTGTGGATGGATTACCACCAGAA
 GCTGGTGGACCAGGCGTGTGACCATGGACACGTACCTGGGCCAGTTCCCGACATCAAGTCACGCATT
 GCCAAGCGGGGCGCAAGCTGGTGGACTACGACAGTCCCGGCACCACTACGAGTCCCTTCAAAGTCCCA
 AAAAGAAGGATGAAGCCAAAATTGCCAAGGCCGAGGAGGAGCTCATCAAAGCCCAGAAGGTGTTTGAGGA
 GATGAATGTGGATCTGCAGGAGGAGCTGCCGTCCCTGTGGAACAGCCGCTAGGTTTCTACGTCAACACG
 TTCCAGAGCATCGCGGGCTGGAGGAAAATTCCACAAGGAGATGAGCAAGCTCAACCAGAACCTCAATG
 ATGTGCTGGTCCGCCTGGAGAAGCAACCGGGAGCAACACCTTACGGTCAAGGCCACGCCAGAAAGAA
 AAGTAACTGTTTTCGCGGCTGCGCAGAAAGAAGAACAGTGACAACGCGCCTGCAAAAGGGAACAAGAGC
 CCTTCGCCTCCAGATGGCTCCCCGCGCCACCCCGAGATCAGAGTCAACCACGAGCCAGAGCCGGCCG
 GCGGGGCCACGCCGGGGCCACCTCCCCAAGTCCCCATCTCAGCCAGCAGAGGCTCGGAGGTGGCGGG
 TGGACCAACCTGCGGCTGGAGCCAGGAGCCAGGGGAGACGGCGGCAAGTGAAGCAGCCTCCAGCTCT
 CTTCTGCTGCTGTTGGTGGAGACCTCCAGCAACTGTGAATGGCACCGTGGAGGGCGGCGAGTGGGGCCG
 GGCGCTTGGACCTGCCCCAGGTTTCATGTTCAAGGTACAGGCCACGACGACTACACGGCCACTGACAC
 AGACGAGCTGCAGCTCAAGGCTGGTGTGGTGGTGGTATCCCTTCCAGAACCCTGAAGAGCAGGAT
 GAAGGCTGGCTCATGGGCGTGAAGGAGAGCGACTGGAACCAGCACAAAGGAGCTGGAGAAGTGCCGTGGCG
 TCTTCCCGAGAACTTCACTGAGAGGGTCCCA

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG220616 representing NM_004305
 Red=Cloning site Green=Tags(s)

MAEMGSKGVTAGKIASNVQKKLTRAQEKVLQKLGKADETKDEQFEQCVQNFNKQLTEGTRLQKDLRTYLA
 SVKAMHEASKKLNELQEVYEPDWPGRDEANKIAENNDLLWMDYHQKLVQDQALLTMDTYLGGFPDIKSRI
 AKRGRKLVYDYSARHHYESLQTAKKKDEAKIAKAEELIKAQKVFEEMNVDLQEELPSLWNSRVGFVYNT
 FQSIAGLEENFHKEMSKLNQNLNDVLVGLEKQHGSNFTVKAQPRKSKLFSRLRRKNSDNAPAKGNKS
 PSPPDGSPAATPEIRVNHEPEPAGGATPGATLPKSPSQPAEASEVAGGTQPAAGAQPGETAASEAASSS
 LPAVVVETFPATVNGTVEGGSGAGRLDLPFGFMFKVQAQHDYATDDELQKAGDVVLVIPFQNPPEEQD
 EGWLMGVKESDWNQHKLEKCRGVFPENFTEVP

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_004305

ORF Size: 1362 bp

OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

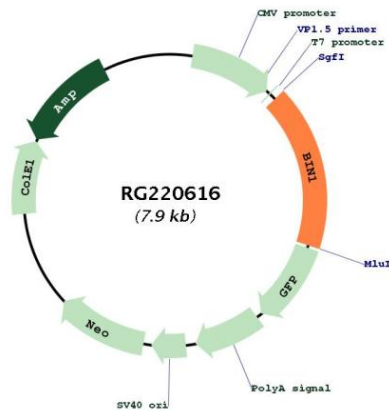
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_004305.4](#)

RefSeq Size: 2210 bp
 RefSeq ORF: 1365 bp
 Locus ID: 274
 UniProt ID: [O00499](#)
 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]

Product images:



Circular map for RG220616