

## Product datasheet for **RG220585**

### **BIN1 (NM\_139344) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BIN1 (NM_139344) 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:**

>RG220585 representing NM\_139344  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAGAGATGGGCAGTAAAGGGGTGACGGCGGAAAGATCGCCAGCAACGTGCAGAAGAAGCTCACCC  
 GCGCGCAGGAGAAGTTCTCCAGAAGCTGGGGAAGGCAGATGAGACCAAGGATGAGCAGTTTGAGCAGTG  
 CGTCCAGAATTTCAACAAGCAGCTGACGGAGGGCACCCGGCTGCAGAAGGATCTCCGACCTACCTGGCC  
 TCCGTCAAAGCCATGCACGAGGCTTCCAAGAAGCTGAATGAGTGTCTGCAGGAGGTGATGAGCCCGATT  
 GGCCCGCAGGGATGAGGCAAACAAGATCGCAGAGAACAACGACCTGCTGTGGATGGATTACCACCAGAA  
 GCTGGTGGACCAGGCGTGTGACCATGGACACGTACCTGGGCCAGTTCCCGACATCAAGTCACGCATT  
 GCCAAGCGGGGCGCAAGCTGGTGGACTACGACAGTCCCGGCACCCTACGAGTCCCTTCAAAGTCCCA  
 AAAAGAAGGATGAAGCCAAAATTGCCAAGCCTGTCTCGTGTGAGAAAGCCGCCCCCAGTGGTGCCA  
 AGGCAAATGCAGGCTCATCTCGTAGCTCAAATAACCTGCTCCGAAATCAGGCCGAGGAGGAGCTCATC  
 AAAGCCAGAAGGTGTTTGGAGAGATGAATGTGGATCTGCAGGAGGAGCTGCCGTCCTGTGGAACAGCC  
 GCGTAGGTTTCTACGTCAACACGTTCCAGAGCATCGCGGGCCTGGAGGAAAACCTCCACAAGGAGATGAG  
 CAAGCTCAACCAGAACCTCAATGATGTGCTGGTGGCCTGGAGAAGCAACACGGGAGCAACACCTTCACG  
 GTCAAGGCCAGCCAGTGAACAACGCGCTGCAAAAGGGAACAAGAGCCCTTCGCTCCAGATGGCTCCC  
 CTGCCGCCACCCCGAGATCAGAGTCAACCACGAGCCAGAGCCGGCCGGCGGGGCCACGCCCGGGGCCAC  
 CCTCCCAAGTCCCATCTCAGTTTGGGCCCGGGGCCCTTCTCGGAGCAGGCCAGTCTGCTGGACCTG  
 GACTTTGACCCCTCCCGCCGTGACGAGCCCTGTGAAGGCACCCACGCCCTCTGGTCAATTCAT  
 GGGACTCTGGGAGCCACAGAGAGTCCAGCCGCGCAGCTGCCTTCCGGGAGCCAGCGTCCCGAGGGG  
 CACCTTTGCTGTCTGCTGGCCAGCCAGCGCCGAGCCGGGCCCTGCCAACACAGCAGAGGCCTCGGAG  
 GTGGCGGTGGGACCAACCTGCGGCTGGAGCCAGGAGCCAGGGGAGAGCGGCGCAAGTGAAGCAGCCT  
 CCAGCTCTCTTCTGCTGTCTGGTGGAGACCTTCCAGCAACTGTGAATGGCACCGTGGAGGGCGGAG  
 TGGGGCCGGCGCTTGGACCTGCCCCAGGTTTTCATGTTCAAGGTACAGGCCAGCAGACTACACGGCC  
 ACTGACACAGACGAGCTGCAGCTCAAGGCTGGTGTGATGTGGTGTGGTGTATCCCCTTCCAGAACCTGAAG  
 AGCAGGATGAAGGCTGGCTCATGGCGTGAAGGAGAGCGACTGGAACCAGCACAAGGAGCTGGAGAAGTG  
 CCGTGGCGTCTTCCCGAGAACTCACTGAGAGGGTCCCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG220585 representing NM\_139344  
 Red=Cloning site Green=Tags(s)

MAEMSGKGVTAGKIASNVQKKLTRAQEKVLQKLGADETKDEQFEQCVQNFNKQLTEGTRLQKDLRITYLA  
 SVKAMHEASKKLNELQEVYEPDWPGRDEANKIAENNDLLWMDYHQKLVQALLTMDTYLGFDPDIKSRI  
 AKRGRKLVYDSARHHYESLQTAKKKDEAKIAKPVSLLEKAAPQWCQKLAHLVAQTNLLRNQAEELI  
 KAQKVFEEMNVDLQEELPSLWNSRVGFYVNTFQSIAGLEENFHKEMSKLNQNLNDVLVGLEKQHGNSFTT  
 VKAQPSDNAPAKGNKSPSPDGSPAATPEIRVNHEPEPAGGATPGATLPKSPSQFEAPGPFSEQASLLDL  
 DFDPLPPVTSPVKAPTPSGQSIIPWDLWEPTESPAGSLPSGEPSSAAEGTFVSWPSQTAEPGPAQPAEASE  
 VAGGTQPAAGAQPGETAASEAASSLPVAVVETFPATVNGTVEGGSGAGRLDLPFGFMFKVQAQHDYTA  
 TDTDELQKAGDVVVLVIPPQNPEEQDEGWLMGVKESDWNQHKELEKCRGVFPENF TERVP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_139344

**ORF Size:** 1650 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\\_139344.3](#)

**RefSeq Size:** 2508 bp

**RefSeq ORF:** 1653 bp

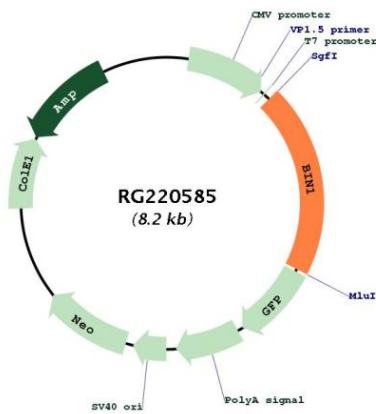
**Locus ID:** 274

**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 RG220585