

## Product datasheet for **RG214334**

### **BIN1 (NM\_139349) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BIN1 (NM_139349) 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:**

>RG214334 representing NM\_139349  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCAGAGATGGGCAGTAAAGGGGTGACGGCGGAAAGATCGCCAGCAACGTGCAGAAGAAGCTCACCC  
 GCGCGCAGGAGAAGGTTCTCCAGAAGCTGGGGAAGGCAGATGAGACCAAGGATGAGCAGTTTGAGCAGTG  
 CGTCCAGAATTTCAACAAGCAGCTGACGGAGGGCACCCGGCTGCAGAAGGATCTCCGGACCTACCTGGCC  
 TCCGTCAAAGCCATGCACGAGGCTTCCAAGAAGCTGAATGAGTGTCTGCAGGAGGTGATGAGCCCGATT  
 GGCCCGCAGGGATGAGGCAAACAAGATCGCAGAGAACAACGACCTGCTGTGGATGGATTACCACCAGAA  
 GCTGGTGGACCAGGCGTGTGACCATGGACACGTACCTGGGCCAGTTCCCGACATCAAGTCACGCATT  
 GCCAAGCGGGGGCGCAAGCTGGTGGACTACGACAGTCCCGGCACCACTACGAGTCCCTTCAAAGTCCCA  
 AAAAGAAGGATGAAGCCAAAATTGCCAAGGCCGAGGAGGAGCTCATCAAAGCCCAGAAGGTGTTTGAGGA  
 GATGAATGTGGATCTGCAGGAGGAGCTGCCGTCCCTGTGGAACAGCCGCTAGGTTTCTACGTCAACACG  
 TTCCAGAGCATCGCGGGCTGGAGGAAAATTCCACAAGGAGATGAGCAAGCTCAACCAGAACCTCAATG  
 ATGTGCTGGTCCGGCTGGAGAAGCAACCGGGAGCAACACCTTACGGTCAAGGCCACGCCAGTACAA  
 CGCGCCTGCAAAAAGGAACAAGACCCCTTCCGCTCCAGATGGCTCCCTGCCGCCACCCCGAGATCAGA  
 GTCAACCACGAGCCAGAGCCGGCCGGCGGGGCCACGCCGGGGGCCACCCTCCCAAGTCCCACATCTCAGC  
 CCACAGAGAGTCCAGCCGGCAGCCTGCCTTCCGGGGAGCCAGCGCTGCCGAGGGCACCTTTGCTGTGTC  
 CTGGCCAGCCAGACGGCCGAGCCGGGGCTGCCAACACGACAGAGGCCCTCGGAGGTGGCGGGTGGGACC  
 CAACCTGCGGCTGGAGCCAGGAGCCAGGGGAGACGGCGGCAAGTGAAGCAGCCTCCAGCTCTCTCCTG  
 CTGTCTGGTGGAGACCTTCCAGCAACTGTGAATGGCACCGTGGAGGGCGCAGTGGGGCCGGCGCTT  
 GGACCTGCCCCAGGTTTCATGTTCAAGGTACAGGCCACGACTACACGGCCACTGACACAGACGAG  
 CTGCAGCTCAAGGCTGGTGTGTTGGTGTGCTCCCTTCCAGAACCCTGAAGAGCAGGATGAAGGCT  
 GGCTCATGGCGTGAAGGAGAGCGACTGGAACCAGCACAAAGGAGCTGGAGAAGTCCCGTGGCGTCTTCC  
 CGAGAATTCAGTGAAGGGTCCCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG214334 representing NM\_139349  
 Red=Cloning site Green=Tags(s)

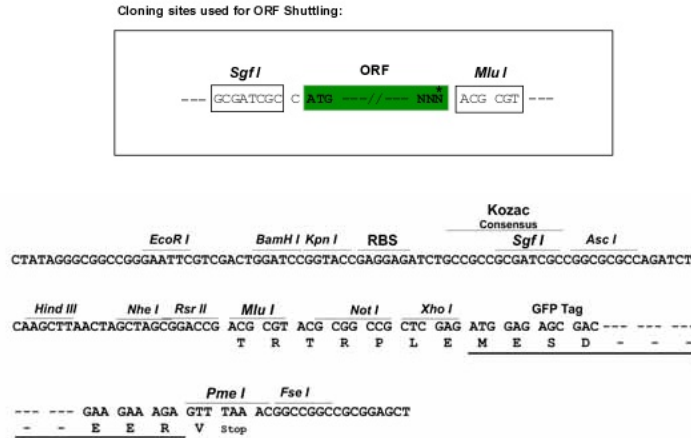
MAEMGSKGVTAGKIASNVQKKLTRAQEKVLQKLGADETKDEQFEQCVQNFNKQLTEGTRLQKDLRTYLA  
 SVKAMHEASKKLNELQEVYEPDWPGRDEANKIAENNDLLWMDYHQKLVQDQALLTMDTYLGGFPDIKSRI  
 AKRGRKLVYDSARHHYESLQTAKKKDEAKIAKEEELIKAQKVFEEMNVDLQEELPSLWNSRVGFVYNT  
 FQSIAGLEENFHKEMSKLNQNLNDVLVGLEKQHGSNFTTVKAQPSDNAPAKGNKSPSPDPGSPAATPEIR  
 VNHEPEPAGGATPGATLPKSPSQPTESPAGSLPSGEPSSAEGTFVSWPSQTAEPGPAQPAEASEVAGGT  
 QPAAGAQEPGETAASEAASSLPVAVVETFPATVNGTVEGGSGAGRLDLPFGFMFKVQAQHDYATDDE  
 LQLKAGDVVLVIPFQNPPEEQDEGLMGVKESDWNQHKLEKCRGVFPENFTERP

**TRTRPLE** - GFP Tag - V

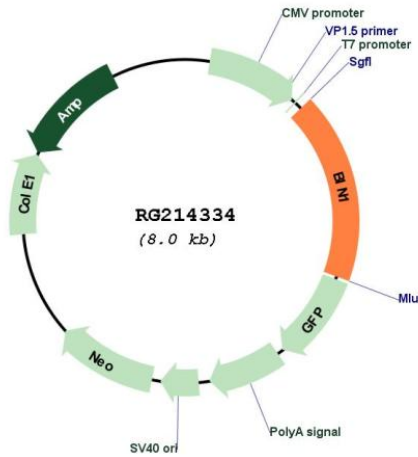
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



- ACCN: NM\_139349
- ORF Size: 1425 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\\_139349.3](#)

**RefSeq Size:** 2283 bp

**RefSeq ORF:** 1428 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]