

## Product datasheet for **RG214277**

### **BIN1 (NM\_139346) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BIN1 (NM_139346) 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:**

>RG214277 representing NM\_139346  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCAGAGATGGGCAGTAAAGGGGTGACGGCGGAAAGATCGCCAGCAACGTGCAGAAGAAGCTCACCC  
 GCGCGCAGGAGAAGGTTCTCCAGAAGCTGGGGAAGGCAGATGAGACCAAGGATGAGCAGTTTGAGCAGTG  
 CGTCCAGAATTTCAACAAGCAGCTGACGGAGGGCACCCGGCTGCAGAAGGATCTCCGGACCTACCTGGCC  
 TCCGTCAAAGCCATGCACGAGGCTTCCAAGAAGCTGAATGAGTGTCTGCAGGAGGTGATGAGCCCGATT  
 GGCCCGCAGGGATGAGGCAAACAAGATCGCAGAGAACAACGACCTGCTGTGGATGGATTACCACCAGAA  
 GCTGGTGGACCAGGCGTGTGACCATGGACACGTACCTGGGCCAGTTCCCGACATCAAGTCACGCATT  
 GCCAAGCGGGGGCAAGCTGGTGGACTACGACAGTCCCGGCACCACTACGAGTCCCTTCAAAGTCCCA  
 AAAAGAAGGATGAAGCCAAAATTGCCAAGGCCGAGGAGGAGCTCATCAAAGCCCAGAAGGTGTTGAGGA  
 GATGAATGTGGATCTGCAGGAGGAGCTGCCGTCCCTGTGGAACAGCCGCTAGGTTTCTACGTCAACACG  
 TTCCAGAGCATCGCGGGCTGGAGGAAAATTCCACAAGGAGATGAGCAAGCTCAACCAGAACCTCAATG  
 ATGTGCTGGTCCGCCTGGAGAAGCAACCGGGAGCAACACCTTACGGTCAAGGCCACGCCAGAAAGAA  
 AAGTAACTGTTTTCGCGGCTGCGCAGAAAAGAAGAACAGTGACAACGCGCCTGCAAAAAGGGAACAAGAGC  
 CCTTCGCCTCCAGATGGCTCCCTGCGGCCACCCCGAGATCAGAGTCAACCACGAGCCAGAGCCGGCCG  
 GCGGGGCCACGCCGGGGCCACCCTCCCAAGTCCCACTCAGCTCCGAAAGGCCACCAGTCCCTCC  
 GCCTCCAAACACACCCCGTCCAAGGAAGTCAAGCAGGAGCAGATCCTCAGCCTGTTTGAGGACAGTGT  
 GTCCCTGAGATCAGCGTGACCACCCCTCCAGCCAGCAGAGGCCCTCGGAGGTGGCGGTGGGACCAAC  
 CTGCGGCTGGAGCCAGGAGCCAGGGGAGACGGCGCAAGTGAAGCAGCCTCCAGTCTCTCCTGCTGT  
 CGTGGTGGAGACCTTCCAGCAACTGTGAATGGCACCGTGGAGGGCGCAGTGGGCGCGGCGCTTGAC  
 CTGCCCCAGGTTTCATGTTCAAGGTACAGGCCAGCAGCACTACAGGCCACTGACACAGACGAGCTGC  
 AGCTCAAGGCTGGTATGTGGTGTGGTATCCCTTCCAGAACCCTGAAGAGCAGGATGAAGGCTGGCT  
 CATGGGCGTGAAGGAGAGCGACTGGAACCAGCACAAAGGAGCTGGAGAAGTGCCGTGGCGTCTTCCCGAG  
 AACTTCACTGAGAGGGTCCCA

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>RG214277 representing NM\_139346  
 Red=Cloning site Green=Tags(s)

MAEMGSKGVTAGKIASNVQKKLTRAQEKVLQKLGKADETKDEQFEQCVQNFNKQLTEGTRLQKDLRITYLA  
 SVKAMHEASKKLNELQEVYEPDWPGRDEANKIAENNDLLWMDYHQKLVQALLTMDTYLQGFPDIKSRI  
 AKRGRKLVYDSARHHYESLQTAKKKDEAKIAKAEELIKAQKVFEEEMNVDLQEELPSLWNSRVGFYVNT  
 FQSIAGLEENFHKEMSKLNQNLNDVLVGLEKQHSNTFTVKAQPRKSKLFSRLRRKNSDNAPAKGNKS  
 PSPPDGSFAATPEIRVNHEPEPAGGATPGATLPKSPSQLRKGPVPPPKHTPSKEVKQEILSLFEDTF  
 VPEISVTTSPQPAEASEVAGGTQPAAGAQPGETAASEAASSSLPAVVVETFPATVNGTVEGSGAGRLD  
 LPPGFMFVQAQHDYATDDELQKAGDVVLVIFQNPPEEQDEGWLMGVKESDWNQHKLEKCRGVFPE  
 NFTERVP

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_139346

**ORF Size:** 1491 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](mailto: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:**

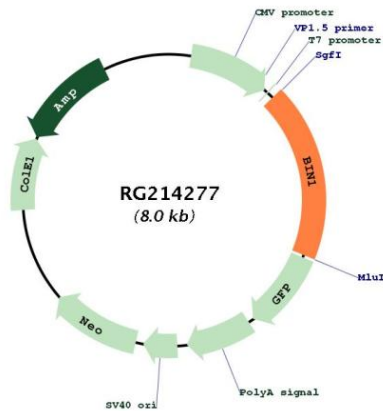
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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\\_139346.3](#)

RefSeq Size: 2333 bp  
 RefSeq ORF: 1494 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 RG214277