

## Product datasheet for **RG220682**

### **BIN1 (NM\_139347) Human Tagged ORF Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | BIN1 (NM_139347) 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:**

>RG220682 representing NM\_139347  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAGAGATGGGCAGTAAAGGGTGACGGCGGAAAGATCGCCAGCAACGTGCAGAAGAAGCTCACCC  
 GCGCGCAGGAGAAGTTCTCCAGAAGCTGGGGAAGGCAGATGAGACCAAGGATGAGCAGTTTGAGCAGTG  
 CGTCCAGAATTTCAACAAGCAGCTGACGGAGGGCACCCGGCTGCAGAAGGATCTCCGGACCTACCTGGCC  
 TCCGTCAAAGCCATGCACGAGGCTTCCAAGAAGCTGAATGAGTGTCTGCAGGAGGTGATGAGCCCGATT  
 GGCCCGCAGGGATGAGGCAAACAAGATCGCAGAGAACAACGACCTGCTGTGGATGGATTACCACCAGAA  
 GCTGGTGGACCAGGCGTGTGACCATGGACACGTACCTGGGCCAGTTCCCGACATCAAGTCACGCATT  
 GCCAAGCGGGGGCGCAAGCTGGTGGACTACGACAGTCCCGGCACCCTACGAGTCCCTTCAAAGTCCCA  
 AAAAGAAGGATGAAGCCAAAATTGCCAAGGCCGAGGAGGAGCTCATCAAAGCCCAGAAGGTGTTGAGGA  
 GATGAATGTGGATCTGCAGGAGGAGCTGCCGTCCCTGTGGAACAGCCGCTAGGTTTCTACGTCAACACG  
 TTCCAGAGCATCGCGGGCTGGAGGAAAATTCCACAAGGAGATGAGCAAGCTCAACCAGAACCTCAATG  
 ATGTGCTGGTCCGCTGGAGAAGCAACCGGGAGCAACACCTTACGGTCAAGGCCACGCCAGTACAA  
 CGCGCCTGCAAAAAGGGAACAAGAGCCCTTCCGCTCCAGATGGCTCCCCTGCCGCCACCCCGAGATCAGA  
 GTCAACCACGAGCCAGAGCCGGCCGGCGGGGCCACGCCGGGGGCCACCCTCCCAAGTCCCACATCTCAGC  
 TCCGGAAGGCCACCAGTCCCTCCGCTCCCAAAACACACCCCGTCAAGGAAGTCAAGCAGGAGCAGAT  
 CCTCAGCCTGTTTGGGACACGTTTGTCCCTGAGATCAGCGTGACCACCCCTCCAGCCACAGAGAGT  
 CCAGCCGGCAGCCTGCCTTCCGGGAGCCAGCGCTGCCGAGGGCACCTTGTGTGTCTGGCCAGCC  
 AGACGGCCGAGCCGGGGCTGCCAACCAGCAGAGGCCCTCGGAGGTGGCGGGTGGGACCCAACTGCGGC  
 TGGAGCCAGGAGCCAGGGGAGACGGCGCAAGTGAAGCAGCCTCCAGCTCTTCTCTGCTGTCTGGTG  
 GAGACCTTCCAGCAACTGTGAATGGCACCGTGGAGGGCGGCAGTGGGGCCGGCGCTTGGACTGCCCC  
 CAGGTTTCATGTTCAAGGTACAGGCCAGCAGCTACACGGCCACTGACACAGACGAGCTGCAGCTCAA  
 GGCTGGTGTGGTGTGGTATCCCCTTCCAGAACCCTGAAGAGCAGGATGAAGGCTGGCTCATGGGC  
 GTGAAGGAGAGCGACTGGAACCAGCACAAGGAGCTGGAGAAGTCCGCTGGCGTCTCCCCGAGAACTTCA  
 CTGAGAGGGTCCCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG220682 representing NM\_139347  
 Red=Cloning site Green=Tags(s)

MAEMSGKGVTAGKIASNVQKKLTRAQEKVLQKLGKADETKDEQFEQCVQNFNKQLTEGTRLQKDLRITYLA  
 SVKAMHEASKKLNELQEVYEPDWPGRDEANKIAENNDLLWMDYHQKLVQALLTMDTYLGQFPDIKSRI  
 AKRGRKLVYDSARHHYESLQTAKKKDEAKIAKEEELIKAQKVFEE MNVDLQEELPSLWNSRVGFYVNT  
 FQSIAGLEENFHKEMSKLNQNLNDVLVGLEKQHGSNFTVKAQPSDNAPAKGNKSPSPDGGSPAATPEIR  
 VNHEPEPAGGATPGATLPKSPSQLRKGPVPPPKHTPSKEVKQEQLSLFEDTFVPEISVTTPSQPTES  
 PAGSLPSGEPSSAAEGTFVSWPSQTAEPGPAQPAEASEVAGGTQPAAGA QEPGETAASEAASSSLP AVVV  
 ETFPATVNGTVEGGSGAGRLDLPPGFMFKVQAQHDYATDDELQLKAGDVVLLVIPFQNPPEEQDEGLMG  
 VKESDWNQHKLEKCRGVFPENF TERVP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul



|                               |   |
|-------------------------------|---|
| <b>ACCN:</b>                  | NM_139347   |
| <b>ORF Size:</b>              | 1554 bp   |
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>   |
| <b>RefSeq:</b>                | <a href="#">NM_139347.3</a>   |
| <b>RefSeq Size:</b>           | 2412 bp   |
| <b>RefSeq ORF:</b>            | 1557 bp   |
| <b>Locus ID:</b>              | 274   |
| <b>UniProt ID:</b>            | <a href="#">O00499</a>  |
| <b>Cytogenetics:</b>          | 2q14.3  |
| <b>Gene Summary:</b>          | 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] |