

## Product datasheet for **MG206456**

### Aup1 (BC016485) Mouse Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | Aup1 (BC016485) Mouse Tagged ORF Clone                                     |
| Tag:                      | TurboGFP   |
| Symbol:                   | Aup1   |
| Synonyms:                 | AA589454   |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-AC-GFP (PS100010)  |
| E. coli Selection:        | Ampicillin (100 ug/mL)   |
| ORF Nucleotide Sequence:  | >MG206456 representing BC016485<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAACCTCCCCAGCTCCGGGGCCGGAGCGGCTCTTTGACTCGCACCGGCTCCCGAGTGACGGCTTCC  
TGCTGCTCGCGCTACTGCTCTACGCGCCGGTCGGCCTCTGCCTCCTGGTCTCGGACTCTTCTCGGGCT  
CCACGTCTTCTGGTCAGCTGCGCTCTGCCGACAGCGTCTCCGAGGTTCTGGTACGAACCATGTGT  
GCGGTCTGGGGCTCGTGCCCGCAGGAGGACTCCGGACTCCGCGATCACCGCGTCAGGTCCTTATTT  
CCAACCACGTAACACCTTTTGACCACAACATAGTCAACCTCCTACCACCTGTAGCACCCCTCTACTCAA  
TAGTCCCCCAGCTTTGTGTGTTGGTCTCGGGGCTTCATGGAGATGGATAGGCGGGTGGAGTTGGTGGAG  
TCACTCAAGAAATCTGTGCTTCCACGAGGCTTCCGCCACACCTTTGCTGCTTCCCCGAGGAAGAGG  
CCACCAATGGCCGAGAAGGGCTGCTGCGTTTCAGTTCTGTGGCCATTTTCTATTACGAGCGTGGTACAACC  
TCTTACCCTGCAAGTTCAGAGACCCCTGGTCTCTGTGACGGTGTGAGATGCCTCCTGGGTCTCAGAACTG  
CTGTGGTCCCTTTTGTCTTTTACGGTGTATCAAGTAAGTGGCTTCATCCCATTCTGTCGACAGCTAG  
GGGAAGAGAGTGAGGAGTTTGCCTCCGTGTACAACAGCTGGTGGCCAAAGAATTGGCCAGATAGGGAC  
ACGGCTCACTCCAGCAGACAAAGCAGAACACATGAAGCGACAAAGACACCCAGATTACGCCCCAGTCA  
GTGCAGTCTTCTTTTCTCTCCTCCAGCCCTTCTTCTGATGTGACGCTGACCACTCTCGCTCACAGAG  
TCAAGGAGGTTCTGCCCATGTGCCATTGAATGTCATCCAGAGAGACTGGCCAGGACTGGGTGTGTAGA  
CTTGACCATCACAAACCTGCTCGAGGGGCTGTGGCTTTCATGCCTGAAGATGTCACTGAGGGATCTCAG  
TCCCCGCTGCACCCTCTGCCCAAAGTCCCCAGCTCGGGCTGGCGACCCCTCAGCCACAGCCCTAA  
CGTTTGCCAAGTCTTCTGGGCCGTCAGGAGAGCCTGCAGGAGCGCAAGCAGGCACTGTATGAATATGC  
AAGAAGGAGATTCAGAGAGAGACAGGCCAGGAGGCTGAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG206456 representing BC016485  
 Red=Cloning site Green=Tags(s)

MEPPPAPGPERLFDShRLPSDGFLLLALLLYAPVGLCLLVLRFLGLHVFLVSCALPDSVLRFRFVVRTMC  
 AVLGLVARQEDSGLRDHRVRLISNHVTPFDHNI VNLTTTCSTPLLNSPPSFVCWSRGMEMDRRVELVE  
 SLKKFCASTRLPPTPLLLFPEEEATNGREGLLRFSSWPF SIQDVVQPLTLQVQRPLVSVTVSDASWSEL  
 LWSL FVPFTVYQVRWLHP IRRQLGEESEEFALRVQQLVAKELGQIGTRLTPADKAEHMKRQRHPRLRPQS  
 VQSSFPPSPSSDVQLTTLAHRVKEVLP HVPLNVIQRDLARTGVDLTI TNLLEGAVAFMPEDVTEGSQ  
 SPPAPSAPKFPSSGLATPQPTAL TFAKSSWARQESLQERKQALYEYARRRFRERQAQAE

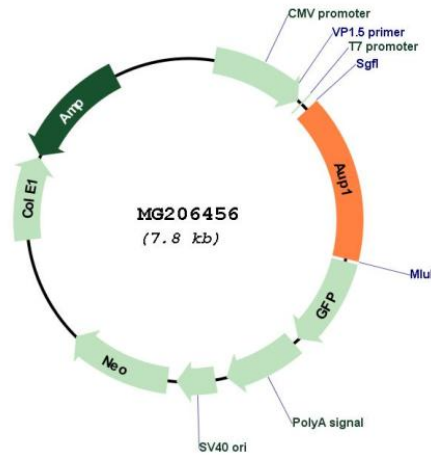
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** BC016485

|                               |  |
|-------------------------------|--|
| <b>ORF Size:</b>              | 1232 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="#">BC016485</a> , <a href="#">AAH16485</a>  |
| <b>RefSeq Size:</b>           | 1454 bp  |
| <b>RefSeq ORF:</b>            | 1232 bp  |
| <b>Locus ID:</b>              | 11993  |
| <b>Cytogenetics:</b>          | 6 35.94 cM   |
| <b>Gene Summary:</b>          | The protein encoded by this gene contains several conserved domains including a hydrophobic domain, an acetyltransferase domain, a ubiquitin binding domain, and a domain required for recruitment of ubiquitin-conjugating enzyme E2 G2 (Ube2g2). In humans, this protein localizes to the endoplasmic reticulum and to lipid droplets. This protein is thought to be involved both in the degradation of misfolded proteins from the endoplasmic reticulum and in the storage of neutral lipids. Reduced expression of the human ortholog of this gene strongly reduces lipid droplet clustering in the cell, and causes stabilization of misfolded proteins. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2014] |