

Product datasheet for **MG220166**

Aup1 (NM_007517) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Aup1 (NM_007517) 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: >MG220166 representing NM_007517
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCAAAGACTCCGCCTTCCCAGGGGCCCCGCGGCCCTGCGAAGATGGCGGCGACAGCGGCCCGCT
 CTCCTGAAGCGGCTGCGATGGAACCTCCCCAGCTCCGGGCGGAGCGGCTCTTTGACTCGACCCGGT
 CCCGAGTGACGGCTTCTGCTGCTCGCGCTACTGCTCTACGCGCCGGTCGGCCTCTGCCTCTGGTCTG
 CGACTCTTCTCGGGCTCACGCTTCTGGTCTGCGCTCTGCCGACAGCGTCTCCGAGGTTCCG
 TGGTACGAACCATGTGTGCGGTCTGGGGCTCGTGGCCCGCAGGAGGACTCCGGACTCCCGATCACCG
 CGTCAGGGTCTTATTTCCAACCAGTAACACCTTTTGACCACAACATAGTCAACCTCTCACACCTGT
 AGCACCCCTCTACTCAATAGTCCCCCAGCTTTGTGTGTTGGTCTCGGGGCTTATGAGATGGATAGGC
 GGGTGGAGTTGGTGGAGTCACTCAAGAAATCTGTGCTCCACGAGGCTTCCGCCACACCTTTGTGCT
 CTTCCCCGAGGAAGAGGCCACCAATGGCCGAGAAGGGTCTGCGTTCAGTTCTGGCCATTTTCTATT
 CAGGACGTGGTACAACCTTACCCTGCAAGTTCAGAGACCCCTGGTCTCTGTGACGGTGTGAGATGCT
 CCTGGGCTCAGAAGTGTGGTCCCTTTTGTCTTTCACGGTGTATCAAGTAAAGTGGCTTCAATCC
 CATTCTGACAGCTAGGGGAAGAGAGTGGAGTTTGGCTCCGTGTACAACAGCTGGTGGCCAAAGAA
 TTGGCCAGATAGGGACACGGCTCACTCCAGCAGACAAAGCAGAACACATGAAGCGACAAAGACACCCCA
 GATTACGCCCCAGTCAGTGCAGTCTTCTTTCTCTCCAGCCCTTCTTCTGATGTGCAGCTGAC
 CACTCTCGCTCACAGAGTCAAGGAGTTCTGCCCATGTGCCATTGAATGTCATCCAGAGAGACCTGGCC
 AGGACTGGGTGTGTAGACTTGACCATCACAAACCTGCTCGAGGGGGTGTGGCTTTCATGCCTGAAGATG
 TCACTGAGGGATCTCAGTCCCCGCTGCACCCTGCCCCAAAGTCCCCAGCTCGGGCTGGCGACCC
 TCAGCCCCACAGCCCTAACGTTTGCAGTCTTCTGGGCCGTGAGGAGCCTGCAGGAGCGCAAGCAG
 GCACTGTATGAATATGCAAGAAGGAGATTCAGAGAGAGACAGGCCAGGAGGCTGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG220166 representing NM_007517
Red=Cloning site Green=Tags(s)

MPKDSAFPAGAPALRRWRRQRPRSPPEAAAMEPPPAPGPERLFDSHRLPSDGFLLALLLYAPVGLCLLV
 RLFLGLHVFLVSCALPDSVLRFFVVRTMCAVLGLVARQEDSGLRDHRVRLISNHVTPFDHNIVNLLTTC
 STPLLNSPPSFVCSWRGFMEMDRRVELVESLKKFCASTRLPPTPLLLFPEEEATNGREGLLRFSSWPF
 SI QDVVQPLTLQVQRPLVSVTVSDASVWSELLWSL FVPFTVYQVRWLHPIRRQLGEESEEFALRVQQLVAKE
 LGQIGTRLTPADKAEHMKRQRHPRLRPQSVQSSFPSPSSDVQLTTLAHRVKEVLPHPVPLNVIQRDLA
 RTGCVDLTITNLLGAVAFMPEDVTEGSQSPAPSAPKFPSSGLATPQPTALTFAKSSWARQESLQERKQ
 ALYEYARRRRFRERQAQAE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007517

ORF Size: 1317 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_007517.4](#), [NP_031543.2](#)

RefSeq Size: 1527 bp

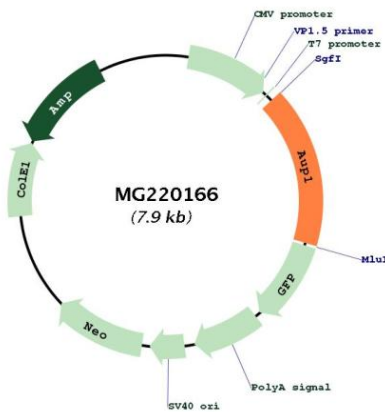
RefSeq ORF: 1233 bp

Locus ID: 11993

Cytogenetics: 6 35.94 cM

Gene Summary: 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]

Product images:



Circular map for MG220166