

Product datasheet for **MC226760**

Aup1 (NM_001301649) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aup1 (NM_001301649) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Aup1
Synonyms:	AA589454
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC226760 representing NM_001301649 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGATGGATAGGCGGGTGGAGTTGGTGGAGTCACTCAAGAAATCTGTGCTCCACGAGGCTCCGC
CCACACCTTTGCTGCTCTCCCGAGGAAGAGGCCACCAATGGCCGAGAAGGGCTGCTGCGTTTCAGTTC
GTGGCCATTTTCTATTCAGGACGTGGTACAACCTTTACCTGCAAGTTCAGAGACCCCTGGTCTCTGTG
ACGGTGTGAGATGCCTCCTGGGTCTCAGAACTGCTGTGGTCCCTTTTGTCTTTACGGTGTATCAAG
TAAGGTGGCTTCATCCCATTTCGTCGACAGCTAGGGGAAGAGAGTGAGGAGTTTGCCTCCGTGTACAACA
GCTGGTGGCCAAAGAATTGGGCCAGATAGGGACACGGCTCACTCCAGCAGACAAAGCAGAACACATGAAG
CGACAAAGACACCCAGATTACGCCCCAGTCAGTGCAGTCTTCTTTCTCTCTCCAGCCCTTCTT
CTGATGTGCAGCTGACCACTCTCGCTCACAGAGTCAAGGAGTCTGCCCATGTGCCATTGAATGTCAT
CCAGAGAGACCTGGCCAGGACTGGGTGTGTAGACTTGACCATCACAACTGCTCGAGGGGGCTGTGGCT
TTCATGCCTGAAGATGTCAGTGAAGGATCTCAGTCCCCGCCTGCACCCTTGCCCAAAGTTCACAGCT
CGGGCCTGGCGACCCCTCAGCCACAGCCCTAACGTTTGCCAAGTCTTCTGGGCCGTGAGGAGAGCCT
GCAGGAGCGCAAGCAGGCACTGTATGAATATGCAAGAAGGAGATTACAGAGAGAGACAGGCCAGGAGGCT
GAATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001301649
Insert Size:	846 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001301649.1</u> , <u>NP_001288578.1</u>
RefSeq Size:	1508 bp
RefSeq ORF:	846 bp
Locus ID:	11993
Cytogenetics:	6 35.94 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate exon in the coding region and uses a downstream start codon compared to variant 1. It encodes isoform 2 which has a shorter N-terminus compared to isoform 1.</p>