OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR228971

Aup1 (NM_001301649) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aup1 (NM_001301649) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aup1
Synonyms:	AA589454
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR228971 representing NM_001301649 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGAGATGGATAGGCGGGTGGAGTTGGTGGAGTCACTCAAGAAATTCTGTGCTTCCACGAGGCTTCCGC CCACACCTTTGCTGCTCTTCCCCGAGGAAGAGGCCACCAATGGCCGAGAAGGGCTGCTGCGTTTCAGTTC GTGGCCATTTTCTATTCAGGACGTGGTACAACCTCTTACCCTGCAAGTTCAGAGACCCCTGGTCTCTGTG ACGGTGTCAGATGCCTCCTGGGTCTCAGAACTGCTGTGGTCCCTTTTTGTTCCTTTCACGGTGTATCAAG TAAGGTGGCTTCATCCCATTCGTCGACAGCTAGGGGAAGAGAGTGAGGAGTTTGCGCTCCGTGTACAACA GCTGGTGGCCAAAGAATTGGGCCAGATAGGGACACGGCTCACTCCAGCAGACAAAGCAGAACACATGAAG CGACAAAGACACCCCAGATTACGCCCCCAGTCAGTGCAGTCTTCTTTTCCTTCTCCTCCCAGCCCTTCTT CTGATGTGCAGCTGACCACTCTCGCTCACAGAGTCAAGGAGGTTCTGCCCCATGTGCCATTGAATGTCAT CCAGAGAGACCTGGCCAGGACTGGGTGTGTAGACTTGACCATCACAAACCTGCTCGAGGGGGCTGTGGCT TTCATGCCTGAAGATGTCACTGAGGGATCTCAGTCCCCGCCTGCACCCTCTGCCCCAAAGTTCCCCAGCT CGGGCCTGGCGACCCCTCAGCCCACAGCCCTAACGTTTGCCAAGTCTTCCTGGGCCCGTCAGGAGAGCCT GCAGGAGCGCAAGCAGGCACTGTATGAATATGCAAGAAGGAGATTCAGAGAGAGACAGGCCCAGGAGGCT GAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

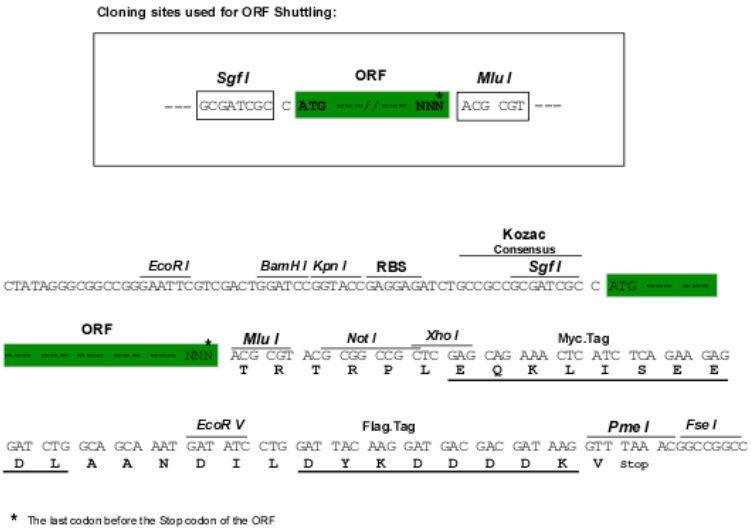
>MR228971 representing NM_001301649
Red=Cloning site Green=Tags(s)

MEMDRRVELVESLKKFCASTRLPPTPLLLFPEEEATNGREGLLRFSSWPFSIQDVVQPLTLQVQRPLVSV
TVSDASWVSELLWSLFVPFTVYQVRWLHPIRRQLGEESEEFALRVQQLVAKELGQIGTRLTPADKAEHMK
RQRHPRLRPQSVQSSFPSPPSPSSDVQLTTLAHRVKEVLPHVPLNVIQRDLARTGCVDLTITNLLEGAVA
FMPEDVTEGSQSPPAPSAPKFPSSGLATPQPTALTFAKSSWARQESLQERKQALYEYARRRFRERQAQEA
E

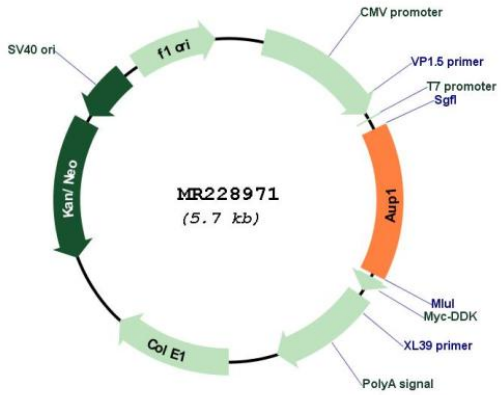
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001301649

ORF Size: 843 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_001301649.1, NP_001288578.1
RefSeq Size:	1508 bp
RefSeq ORF:	846 bp
Locus ID:	11993
Cytogenetics:	6 35.94 cM
MW:	32.3 kDa
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]