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Product datasheet for MR206456

Aup1 (BC016485) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aup1 (BC016485) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aup1
Synonyms:	AA589454
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR206456 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAACCTCCCCCAGCTCCGGGGCCGGAGCGGCTCTTTGACTCGCACCGGCTCCCGAGTGACGGCTTCC
TGCTGCTCGCGCTACTGCTCTACGCGCCGGTCGGCCTCTGCCTCCTGGTCCTGCGACTCTTCCTCGGGCT
CCACGTCTTCCTGGTCAGCTGCGCTCTGCCCGACAGCGTCCTCCGCAGGTTCGTGGTACGAACCATGTGT
GCGGTCCTGGGGCTCGTGGCCCGGCAGGAGGACTCCGGACTCCGCGATCACCGCGTCAGGGTCCTTATTT
CCAACCACGTAACACCTTTTGACCACAACATAGTCAACCTCCTCACCACCTGTAGCACCCCTCTACTCAA
TAGTCCCCCCAGCTTTGTGTGTTGGTCTCGGGGCTTCATGGAGATGGATAGGCGGGTGGAGTTGGTGGAG
TCACTCAAGAAATTCTGTGCTTCCACGAGGCTTCCGCCCACACCTTTGCTGCTCTTCCCCGAGGAAGAGG
CCACCAATGGCCGAGAAGGGCTGCTGCGTTTCAGTTCGTGGCCATTTTCTATTCAGGACGTGGTACAACC
TCTTACCCTGCAAGTTCAGAGACCCCTGGTCTCTGTGACGGTGTCAGATGCCTCCTGGGTCTCAGAACTG
CTGTGGTCCCTTTTTGTTCCTTTCACGGTGTATCAAGTAAGGTGGCTTCATCCCATTCGTCGACAGCTAG
GGGAAGAGAGTGAGGAGTTTGCGCTCCGTGTACAACAGCTGGTGGCCAAAGAATTGGGCCAGATAGGGAC
ACGGCTCACTCCAGCAGACAAAGCAGAACACATGAAGCGACAAAGACACCCCAGATTACGCCCCCAGTCA
GTGCAGTCTTCTTTTCCTTCTCCTCCCAGCCCTTCTTCTGATGTGCAGCTGACCACTCTCGCTCACAGAG
TCAAGGAGGTTCTGCCCCATGTGCCATTGAATGTCATCCAGAGAGACCTGGCCAGGACTGGGTGTGTAGA
CTTGACCATCACAAACCTGCTCGAGGGGGCTGTGGCTTTCATGCCTGAAGATGTCACTGAGGGATCTCAG
TCCCCGCCTGCACCCTCTGCCCCAAAGTTCCCCAGCTCGGGCCTGGCGACCCCTCAGCCCACAGCCCTAA
CGTTTGCCAAGTCTTCCTGGGCCCGTCAGGAGAGCCTGCAGGAGCGCAAGCAGGCACTGTATGAATATGC
AAGAAGGAGATTCAGAGAGAGACAGGCCCAGGAGGCTGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

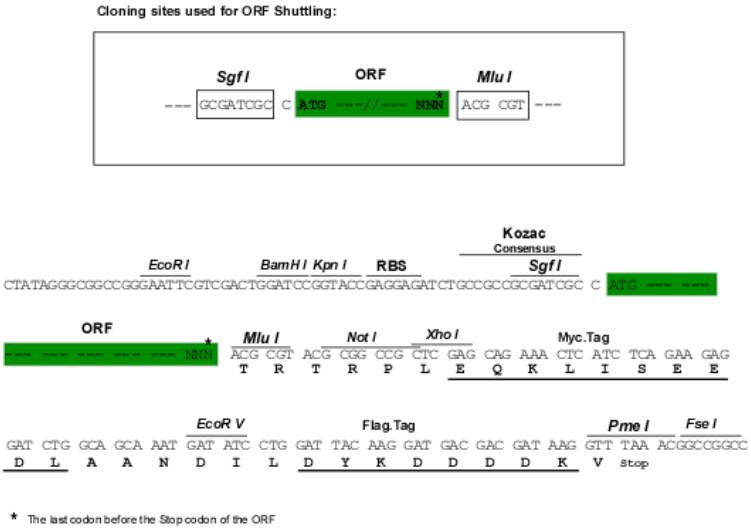
>MR206456 protein sequence
Red=Cloning site Green=Tags(s)

MEPPPAPGPERLFDSHRLPSDGFLLLALLLYAPVGLCLLVLRLFLGLHVFLVSCALPDSVLRRFVVRTMC
AVLGLVARQEDSGLRDHRVRVLISNHVTPFDHNIVNLLTTCSTPLLNSPPSFVCWSRGFMEMDRRVELVE
SLKKFCASTRLPPTPLLLFPEEEATNGREGLLRFSSWPFSIQDVVQPLTLQVQRPLVSVTVSDASWVSEL
LWSLFVPFTVYQVRWLHPIRRQLGEESEEFALRVQQLVAKELGQIGTRLTPADKAEHMKRQRHPRLRPQS
VQSSFPSPPSPSSDVQLTTLAHRVKEVLPHVPLNVIQRDLARTGCVDLTITNLLEGAVAFMPEDVTEGSQ
SPPAPSAPKFPSSGLATPQPTALTFAKSSWARQESLQERKQALYEYARRRFRERQAQEAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC016485

ORF Size: 1230 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: BC016485, AAH16485

RefSeq Size: 1454 bp

RefSeq ORF: 1232 bp

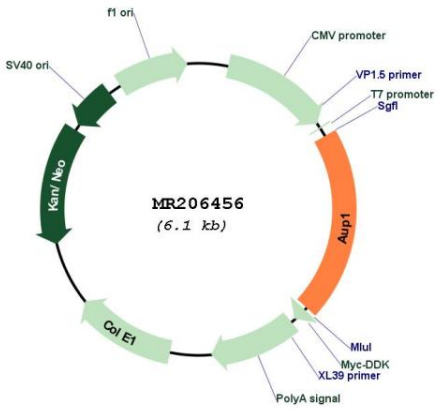
Locus ID: 11993

Cytogenetics: 6 35.94 cM

MW: 46.1 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]

Product images:



Circular map for MR206456