

Product datasheet for **MR206741**

Ap1m1 (NM_007456) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ap1m1 (NM_007456) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ap1m1
Synonyms:	AA408894; Adtm; Adtm1A; AP; AP47; Clt; Cltnm; mu1; mu1A; [m]1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR206741 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCGCCAGCGCCGTCTACGTACTGGATCTGAAGGGCAAGGTGCTCATCTGCAGAACTACCGTGGGG
 ATGTGGACATGTCAGAGGTGGAGCACTTATGCCATTCTGATGGAGAAGGAGGAGGGCATGCTGTC
 ACCTATCTTGGCCATGGTGGCGTTTCGTTTCATGTGGATTAAGCACAACAACCTGTACCTGGTCGCCACT
 TCAAAAAAGAATGCTTGTGTGCTACTGGTGTCTCCTTCTCTACAAGGTGGTACAGGTCTTCTCCGAGT
 ACTTTAAGGAGTTGGAGGAGGAGAGCATCCGAGACAACCTTGTGCATCATCTACGAGCTGCTAGATGAGCT
 CATGGACTTTGGTACCCGCAGACCACTGACAGCAAGATCTTGCAGGAGTACATCACTCAGGAAGGCCAC
 AAGCTGGAACCGGGGCCCTAGGCCCCAGCCACAGTACCAATGCTGTGCTCCTGGCCTCAGAAGGCA
 TCAAGTATCGGAAGAATGAAGTATTCCTGGATGTCATTGAGGCTGTTAACCTCTTGGTCAAGTCCAAATGG
 CAACGTGCTGCGCAGTGAAGTGTGGGTCCATCAAGATGCGGGTCTTCTCTCAGGCATGCCTGAGTTA
 CGCCTGGGTCTCAATGACAAGGTCTTTCGACAACACAGGCCGAGGGAAGCAAGTCAAGTGGAGCTGG
 AGGATGTGAAATCCACCAAGTGTGTGCGCTGTACGTTTTGAGAACGACCCCACTATCTCCTTCATCCC
 ACCCGACGGAGAGTTGAACTCATGTCCTACCGCCTCAACACCCATGTGAAGCCTTTGATCTGGATTGAG
 TCCGTGATTGAGAAGCATTCCCACAGCCGATTGAGTACATGGTCAAGGCCAAGAGCCAGTTCAAGAGGC
 GGTCAACAGCCAACAATGTAGAGATCCATATACAGTCCCAACGATGCTGATTCACCCAAGTTCAAGAC
 TACAGTGGGAGTGTCAAGTGGGTCCCTGAAAACAGTGAAGTCAAGTCAAGTCCCTTCCGGT
 GGCAAGGAGTACCTGATGCGGGCCACTTTGGCCTTCCAGTGTGAAGCTGAAGACAAGGAGGGAAAGC
 CCCCCATCAGCGTCAAGTTTGAATCCCCTATTTCACTACCTCTGGCATCCAGGTGCGCTACCTGAAAAT
 CATTGAGAAGAGTGGGTACCAGGCCCTGCCCTGGGTACGATATATCACACAGAACGGAGATTATCAGCTC
 CGGACCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206741 protein sequence
 Red=Cloning site Green=Tags(s)

MSASAVYVLDLKGKVLICRNYRGDVMSEVEHFMPILMEKEEEGMLSPILAHGGVRFMWIKHNNLYLVAT
 SKKNACVSLVFSFLYKVVQVFSEYFKELEEEIIRDNFVIIYELLDELMDFGYPQTDSKILQEYITQEGH
 KLETGAPRPPATVTNAVSWRSEGIKYRKNEVFLDVEAVNLLVSANGNLRSEIVGSIKMRVFLSGMPEL
 RLGLNDKVLFDNTGRGKSKSVELEDVKFHQCVRLSRFENDRTISFIPDGEFELMSYRLNTHVKPLIWE
 SVIEKHSRRIEYMKAKSQFKRRSTANNVEIHIPVNDADSPKFKTTVGSVKWVPENSEIIVSVKSFPG
 GKEYLMRAHFGFLPSVEAEDKEGKPPISVKFEIPYFTTSGIQVRYLKIIEKSGYQALPWVRYITQNGDYQL
 RTQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_007456

ORF Size: 1272 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_007456.5](#)
RefSeq Size: 1964 bp

RefSeq ORF: 1272 bp

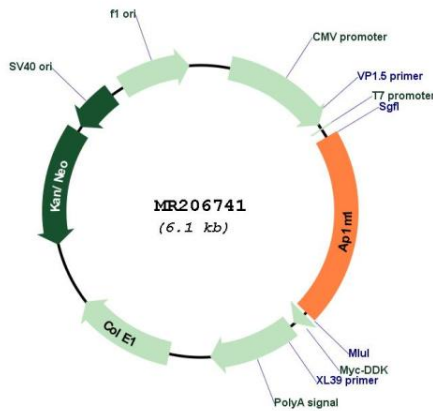
Locus ID: 11767

UniProt ID: [P35585](#)
Cytogenetics: 8 34.92 cM

MW: 48.5 kDa

Gene Summary: This gene encodes the mu-1 subunit of the scaffolding adapter protein complex AP-1 and is a member of the mu adaptin family. The AP-1 complex, which consists of 4 subunits (mu-adaptin, beta-prime adaptin, gamma-adaptin, and the small chain adaptin), is one of the predominant coat proteins of membrane vesicles involved in eukaryotic post-Golgi trafficking. The AP-1 complex is located at the Golgi vesicle and links clathrin to receptors in coated vesicles. These vesicles are involved in endocytosis and Golgi processing. AP-1 complex subunit mu-1 and other mu-adaptins select cargo proteins bearing sequence-specific sorting motifs. [provided by RefSeq, Jul 2016]

Product images:



Circular map for MR206741