

## Product datasheet for RC225660

### AP3M2 (NM\_001134296) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AP3M2 (NM_001134296) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AP3M2
Synonyms:	AP47B; CLA20; P47B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC225660 representing NM_001134296 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATCCATAGTCTTTTCTTGATCAACTCCTCTGGAGACATTTTCTGGAGAAACATTGAAAAAGTGTGG  
TCAGCCGTTCTGTTTGTGATTACTTTTTGAGGCGCAAGAGAGAGCTACTGAGGCAGAAAATGTGCCTCC  
GGTTATCCCTACCCCTACCACTATCTCTTAAGTGTAAACCGCCACAAGATCTTTTTGTGGCCGTGATC  
CAGACGGAGTCCCCCTCTGTTTGTCTTGTGTTTCTCACCGAGTGGTGGACACATTTCAAGATTATT  
TTGGAGTCTGTTCAAGCAGTGAATGTAAGACAATGTAGTTGTGGTTTATGAGGTATTGGAAGAGATGCT  
TGACAATGGTTTTCCATTGGCTACCGAGTCGAACATTCTAAAGAACTCATAAAGCCTCCTACCATCCTT  
CGAACGGTTGTCAACACCATCACAGGAAGCACGAATGTGGGTGACCAGCTTCCCCTGGGCGCTGTGAG  
TGGTGCCTTGGCGACGGACTGGGGTGAATATACCAACAATGAGGCCTATTTTGTGATTGAAGAGAT  
TGATGCAATTATTGATAAATCAGGCTCCACAATTACTGCTGAGATCCAGGGGGTATTGATGCCTGTGTC  
AAGCTGACTGGCATGCCAGACCTTACACTTTCTTCATGAACCCTAGGTTGTTGGATGATGTCAGCTTCC  
ATCCTTGTGTTTCGTTTCAAACGCTGGGAATCTGAGCGCATCCTCTCCTTCATCCCTCCTGATGAAAATT  
CCGCTGTCTTACCATGTCAGTGCACAGAATCTGGTTGCAATCCCAGTGTATGTCAAACATAACATC  
AGTTTTCCGGGACAGTAGTTCCCTTGGACGCTTTGAAATAACGGTGGGACCAAGCAGACGATGGGGAAGA  
CCATTGAGGGAGTACTGTCACCAGCCAGATGCCCAAGGGGTCTGAACATGAGCCTTACTCCATCACA  
GGGACACACACATTTCGACCCAGTCACAAAGATGCTGTCTTGGGATGTAGGAAAAATAAATCCACAAAAG  
CTACCAAGTTTGAAGGGACCATGAGTCTTCAAGCTGGAGCTTCAAACCCAGATGAAAACCCACAATTA  
ACCTGCAGTTAAGATCCAGCAGCTGGCCATTTCTGGACTCAAGGTGAATCGTCTGGATATGTATGGAGA  
AAAGTACAAACCTTTAAGGGCATAAAAACATGACCAAAGCTGGGAAGTTCCAAGTTCCAAC

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC225660 representing NM\_001134296  
Red=Cloning site Green=Tags(s)

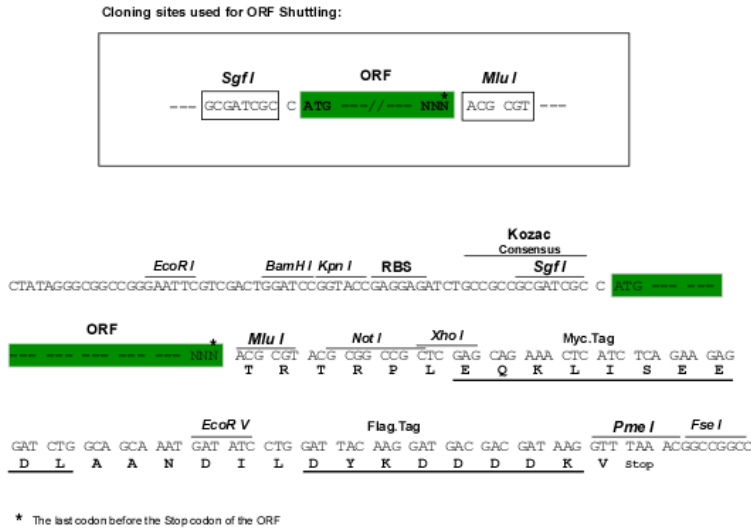
MIHSLFLINSSGDI FLEKHWKSVVSRVCDYFFEAQERATEAENVPPVIPTPHHYLLSVYRHKIFFVAVI  
 QTEVPPLFVIEFLHRVVDTFQDYFGVCSEPVIKDNVVVVYEVLEEMLDNGFPLATESNILKELIKPPTIL  
 RTVVNTITGSTNVGDQLPTGQLSVVPWRRITGVKYTNNEAYFDVIEEIDAIDKSGSTITAEIQGVIDACV  
 KL TGM PDL TL SFMNPRLDDV SFHPCVRFKRWESERILSFIPDPGNFRLLSYHVSAQNLVAIPVYVKHNI  
 SFRDSSSLGRFEITVGPQTMGKTI EGVTVTSQMPKGVLNMSLTPSQGTHTFDPVTKMLSWDVKGINPQK  
 LPSLKG TMSLQAGASKPDENPTINLQFKIQQLAISGLKVNRLDMYGEKYKPFKGIKYMTKAGKFQVRT

TRTRPLEQKLISEEDLAANDILDYKDDDDKVK

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8106\\_b04.zip](https://cdn.origene.com/chromatograms/mk8106_b04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001134296

**ORF Size:** 1254 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\\_001134296.1](#), [NP\\_001127768.1](#)

**RefSeq ORF:** 1257 bp

**Locus ID:** 10947

**UniProt ID:** [P53677](#)

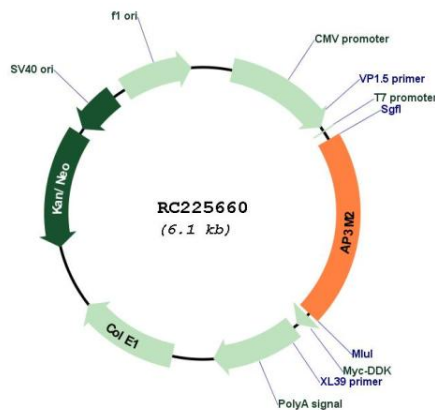
**Cytogenetics:** 8p11.21

**Protein Pathways:** Lysosome

**MW:** 46.8 kDa

**Gene Summary:** This gene encodes a subunit of the heterotetrameric adaptor-related protein complex 3 (AP-3), which belongs to the adaptor complexes medium subunits family. The AP-3 complex plays a role in protein trafficking to lysosomes and specialized organelles. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Aug 2008]

## Product images:



Circular map for RC225660