

## Product datasheet for RC214850

### AP3M1 (NM\_207012) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AP3M1 (NM_207012) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AP3M1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC214850 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGATCGCC

ATGATCCACAGTCTATTTCTCATAAACTGTTCCGGTGACATATTTCTAGAGAAGCACTGGAAGAGCGTTG  
TGAGCCAGTCTGTCTGTGATTATTTCTTTGAAGCTCAAGAGAAAGCTGCTGATGTTGAAAATGTACCACC  
TGTCATTTCAACACCTCACCACTACCTCATCAGTATCTACCGGGATAAGCTCTTCTTTGTATCTGTCCATA  
CAGACCCGAAGTGCCACCTCTCTTTGTAATTGAGTTCCTACATCGAGTTGCTGACACTTTTCAGGACTACT  
TTGGTGAGTGTTTCAGAGGCTGCAATTAAGGATAATGTGGTCATAGTATATGAACCTTAGAAGAAATGTT  
AGACAATGGATTTCCACTGGCTACCGAATCTAACATTTTGAAGAATTGATTAACCACCAACAATTCTA  
CGCTCTGTTGCAACTCTATTACAGGCAGTAGTAATGTTGGGGACACACTCCCCACCGGGCAGCTGTCCA  
ACATACCATGGCGTCGGGCAGGGGTAAGTACACAAAATGAAGCCTATTTTGATGTTGTTGAAGAAAT  
AGACGCAATTATAGATAAATCAGGATCTACAGTCTTTCAGAAAATTCAGGGGGTCAATGATGCTTGCAAT  
AAACTATCTGGAATGCCTGATCTCTCCCTTTCTTCATGAACCCTAGGCTTCTGGATGATGTCAGCTTTC  
ACCCCTGCATCCGGTTCAAGCGTTGGGAATCTGAAAGAGTTTTGTCATTTATTCTCCAGATGGAATTT  
CCGACTCATATACCGTGTGAGTACAAAACTAGTGGCAATACCAGTGTATGTGAAACATAGTATC  
AGCTTTAAGGAGAACAGTTCTTTCGGCAGATTTGATATAACAATTGGACCAAAGCAGAATATGGGGAAAA  
CTATTGAAGGAATTACAGTGACAGTTCACATGCCAAAAGTTGTGCTGAACATGAACCTGACCCACACA  
AGGCAGCTATACATTTGATCCAGTACCAAGGTAACATGGGATGTGGGAAAAATTAATCCACAAAAG  
CTCCCAAGTCTTAAAGGACTGGTAAATTTACAGTCTGGAGCCCCAAACCAGAAGAGAATCCGAGCCTCA  
ACATACAGTTTAAAGTCCAGCAGCTTGCTATTTTCAGGCTTAAAGTAAACCGTTTGGACATGTATGGGGA  
GAAATATAAGCCATTTAAAGGAGTCAAATACGTCACGAAAGCTGGAAAGTTCCAAGTGAGGACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RC214850 protein sequence  
Red=Cloning site Green=Tags(s)

MIHSLFLINCSGDI FLEKHWKSVVSQSVCDYFFEAQEKAADVENVPPVISTPHHYLISIIYRDKLFFVSVI  
 QTEVPLPLFVIEFLHRVADTFQDYFGECSEAAIKDNVVIYELLEMLDNGFPLATESNILKELIKPPTIL  
 RSVVNSITGSSNVGDTLPTGQLSNIPWRRAGVKYTNNEAYFDVVEEIDAIDKSGSTVFAEIQGVIDACI  
 KLSGMPDLSLSFMNPRLLDDVSFHPCIRFKRWESERVL SFIPPDGNFRLISYRVSSQNLVAIPVYVKHSI  
 SFKENS SCGRFDITIGPKQNMGKTIEGITVTVHMPKVVLNMNL TPTQGSYTFDPVTKVL TWDVGKITPQK  
 LPSLKGLVNLQSGAPKEENPSLNIQFKIQQLAISGLKVNRLDMYGEKYKPFKGVYVTKAGKFQVRT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6727\\_d08.zip](https://cdn.origene.com/chromatograms/mk6727_d08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_207012

**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\\_207012.4](#)

**RefSeq Size:** 5270 bp

**RefSeq ORF:** 1257 bp

**Locus ID:** 26985

**UniProt ID:** [Q9Y2T2](#)

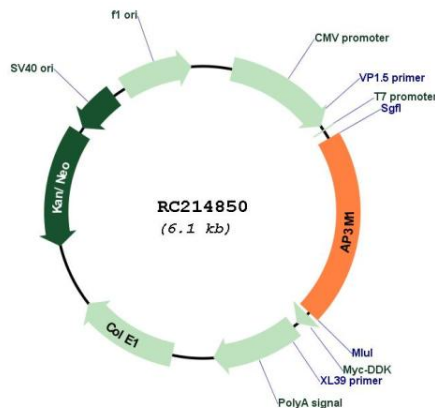
**Cytogenetics:** 10q22.2

**Protein Pathways:** Lysosome

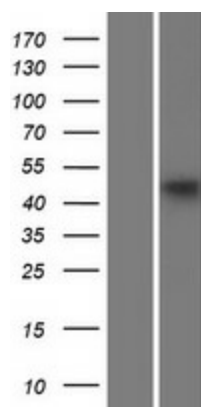
**MW:** 46.9 kDa

**Gene Summary:** The protein encoded by this gene is the medium subunit of AP-3, which is an adaptor-related protein complex associated with the Golgi region as well as more peripheral intracellular structures. AP-3 facilitates the budding of vesicles from the Golgi membrane, and it may directly function in protein sorting to the endosomal/lysosomal system. AP-3 is a heterotetrameric protein complex composed of two large subunits (delta and beta3), a medium subunit (mu3), and a small subunit (sigma 3). Mutations in one of the large subunits of AP-3 have been associated with the Hermansky-Pudlak syndrome, a genetic disorder characterized by defective lysosome-related organelles. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Feb 2016]

### Product images:



Circular map for RC214850



Western blot validation of overexpression lysate (Cat# [LY404133]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214850 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).