

Product datasheet for RC209582

AP3M1 (NM_012095) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AP3M1 (NM_012095) 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:	>RC209582 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCCACAGTCTATTTCTCATAAACTGTTCCGGTGACATATTTCTAGAGAAGCACTGGAAGAGCGTTG
TGAGCCAGTCTGTCTGTGATTATTTCTTTGAAGCTCAAGAGAAAGCTGCTGATGTTGAAAATGTACCACC
TGTCATTTCAACACCTCACCACTACCTCATCAGTATCTACCGGGATAAGCTCTTCTTTGTATCTGTCCATA
CAGACCGAAGTGCCACCTCTCTTTGTAATTGAGTTCCTACATCGAGTTGCTGACACTTTTCAGGACTACT
TTGGTGAGTGTTCCAGAGGCTGCAATTAAGGATAATGTGGTCATAGTATATGAACCTTTAGAAGAAATGTT
AGACAATGGATTTCCACTGGCTACCGAATCTAACATTTTGAAAGAATTGATTAACCACCAACAATTCTA
CGCTCTGTTGCAACTCTATTACAGGCAGTAGTAATGTTGGGGACACACTCCCCACCGGGCAGCTGTCCA
ACATACCATGGCGTCGGGCAGGGGTAAAGTACACAAAATGAAGCCTATTTTGATGTTGTTGAAGAAAT
AGACGCAATTATAGATAAATCAGGATCTACAGTCTTTCAGAAAATTCAGGGGGTCAATGATGCTTGCAAT
AAACTATCTGGAATGCCTGATCTCTCCCTTTCTTCATGAACCCTAGGCTTCTGGATGATGTCAGCTTTC
ACCCCTGCATCCGGTTCAAGCGTTGGGAATCTGAAAGAGTTTTGTCATTTATTCTCCAGATGGAATTT
CCGACTCATATACCGTGTGAGTACAGTACAAAACTAGTGGCAATACCAGTGTATGTGAAACATAGTATC
AGCTTTAAGGAGAACAGTTCTTTCGGCAGATTTGATATAACAATTGGACCAAAGCAGAATATGGGGAAAA
CTATTGAAGGAATTACAGTGACAGTTCACATGCCAAAAGTTGTGCTGAACATGAACCTGACCCACACA
AGGCAGCTATACATTTGATCCAGTACCAAGGTAACATGGGATGTGGGAAAAATTAATCCACAAAAG
CTCCCAAGTCTTAAAGGACTGGTAAATTTACAGTCTGGAGCCCCAAACCAGAAGAGAATCCGAGCCTCA
ACATACAGTTTAAAGTCCAGCAGCTTGCTATTTTCAGGCTTAAAGTAAACCGTTTGGACATGTATGGGGA
GAAATATAAGCCATTTAAAGGAGTCAAATACGTCACGAAAGCTGGAAAGTTCCAAGTGAGGACA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC209582 protein sequence
 Red=Cloning site Green=Tags(s)

MIHSLFLINCSGDI FLEKHWKSVVSQSVCDYFFEAQEKAADVENVPPVISTPHHYLISIIYRDKLFFVSVI
 QTEVPLPLFVIEFLHRVADTFQDYFGECSEAAIKDNVVIYELLEMLDNGFPLATESNILKELIKPPTIL
 RSVVNSITGSSNVGDTLPTGQLSNIPWRRAGVKYTNNEAYFDVVEEIDAIDKSGSTVFAEIQGVIDACI
 KLSGMPDLSLSFMNPRLLDDVDFHPCIRFKRWESERVL SFIPPDGNFRLISYRVSSQNLVAIPVYVKHSI
 SFKENS SCGRFDITIGPKQNMGKTIEGITVTVHMPKVVLNMNL TPTQGSYTFDPVTKVL TWDVGKITPQK
 LPSLKGLVNLQSGAPKEENPSLNIQFKIQQLAISGLKVNRLDMYGEKYKPKGKVKYVTKAGKFQVRT

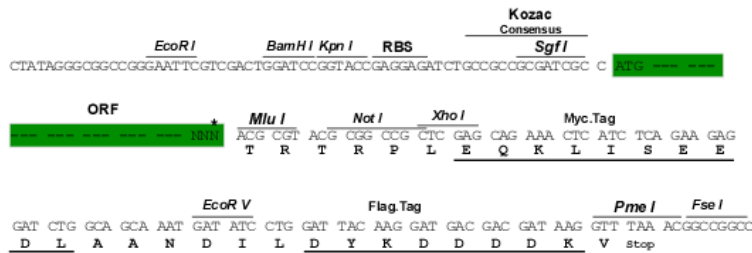
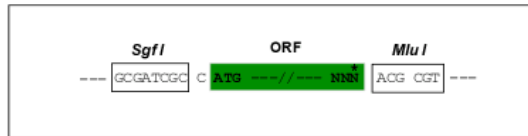
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: 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_012095

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_012095.6](#)

RefSeq Size: 5144 bp

RefSeq ORF: 1257 bp

Locus ID: 26985

UniProt ID: [Q9Y2T2](#)

Cytogenetics: 10q22.2

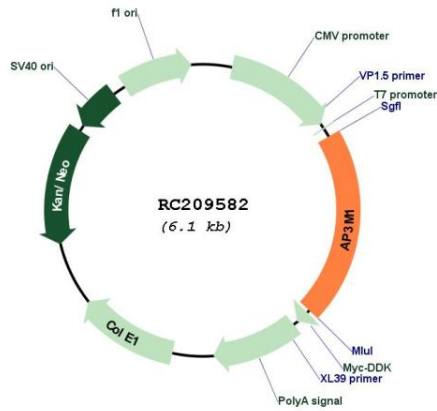
Domains: Adap_comp_sub

Protein Pathways: Lysosome

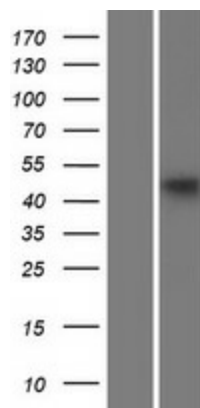
MW: 46.9 kDa

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 RC209582



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]).