

## Product datasheet for **SC308364**

### AP3M1 (NM\_207012) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AP3M1 (NM_207012) Human Untagged Clone
Tag:	Tag Free
Symbol:	AP3M1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC308364 representing NM_207012. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATCCACAGTCTATTTCTCATAAACTGTTCCGGTGACATATTTCTAGAGAAGCACTGGAAGAGCGTT
GTGAGCCAGTCTGTCTGTGATTATTTCTTTGAAGCTCAAGAGAAAGCTGCTGATGTTGAAAATGTACCA
CCTGTCATTTCAACACCTCACCCTACCTCATCAGTATCTACCGGATAAGCTCTTCTTTGTATCTGTG
ATACAGACCGAAGTGCCACCTCTCTTTGTAATTGAGTTCCTACATCGAGTTGCTGACACTTTTCAGGAC
TACTTTGGTGAGTGTTCCAGAGGCTGCAATTAAGGATAATGTGGTCATAGTATGAACCTTAGAAGAA
ATGTTAGACAATGGATTCCACTGGCTACCGAATCTAACATTTGAAAGAATTGATTAACCAACCAACA
ATTCTACGCTCTGTTGTCAACTCTATTACAGGCAGTAGTAATGTTGGGGACACACTCCCCACCGGGCAG
CTGTCCAACATACCATGGCGTCGGGCAGGGTAAAGTACACAAACAATGAAGCCTATTTTGTGTTGTT
GAAGAAATAGACGCAATTATAGATAAAATCAGGATCTACAGTCTTTCAGAAAATTCAGGGGTCATTGAT
GCTTGCATTAACATCTGGAATGCCTGATCTCTCCCTTCTTTCATGAACCCTAGGCTTCTGGATGAT
GTCAGCTTTCACCCCTGCATCCGGTCAAGCGTTGGGAATCTGAAAGAGTTTGTCAATTTCTCTCCA
GATGGAAATTTCCGACTCATATCATACCGTGTGAGCTCACAAAATCTAGTGGCAATACCAGTGTATGTG
AAACATAGTATCAGCTTTAAGGAGAACAGTCTTGCAGCAGATTTGATATAACAATGGACCAAGCAG
AATATGGGGAAAATATTGAAGGAATTACAGTGACAGTTCACATGCCAAAAGTTGTGCTGAACATGAAC
CTGACACCCACACAAGGCAGCTATACATTTGATCCAGTCCCAAGTACTAACATGGGATGTGGGAAAA
ATTACTCCACAAAAGCTCCCAAGCTTAAAGGACTGGTAAATTTACAGTCTGGAGCCCCCAACAGAA
GAGAATCCGAGCCTCAACATACAGTTTAAAGATCCAGCAGCTTGCTATTTACAGGCTTAAAAGTAAACCGT
TTGGACATGTATGGGGAGAAATATAAGCCATTTAAAGGAGTCAAATACGTCACGAAAGCTGGAAAGTTC
CAAGTGAGGACATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:	□
ACCN:	NM_207012
Insert Size:	1257 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
RefSeq:	<a href="#">NM_207012.3</a>
RefSeq Size:	5287 bp
RefSeq ORF:	1257 bp
Locus ID:	26985
UniProt ID:	<a href="#">Q9Y2T2</a>
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]

Transcript Variant: This variant (1) encodes the longer isoform (a). Variants 1, 2, 3 and 4 all encode isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.