

Product datasheet for **SC115541**

AP3M1 (NM_012095) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AP3M1 (NM_012095) Human Untagged Clone
Tag:	Tag Free
Symbol:	AP3M1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_012095, the custom clone sequence may differ by one or more nucleotides

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ATGATCCACAGTCTATTTCTCATAAACTGTTCCGGTGACATATTTCTAGAGAAGCACTGGAAGAGCGTTG
TGAGCCAGTCTGTCTGTGATTATTTCTTTGAAGCTCAAGAGAAAGCTGCTGATGTTGAAAATGTACCACC
TGTCAATTC AACACCTCACCACCTACCTCATCAGTATCTACCGGGATAAGCTCTTCTTTGTATCTGTCATA
CAGACCGAAGTGCCACCTCTCTTTGTAATTGAGTTCCTACATCGAGTTGCTGACACTTTTCAGGACTACT
TTGGTGAGTGTTCCAGAGGCTGCAATTAAGGATAATGTGGTCATAGTATATGAACTCTTAGAAGAAATGTT
AGACAATGGATTCCACTGGCTACCGAATCTAACATTTTGAAGAATTGATTAACCACCAACAATTCTA
CGCTCTGTTGTCAACTCTATTACAGGCAGTAGTAATGTTGGGGACACACTCCCCACGGGCAGCTGTCCA
ACATACCATGGCGTCGGGCAGGGGTAAAGTACACAACAATGAAGCCTATTTTGATGTTGTTGAAGAAAT
AGACGCAATTATAGATAAATCAGGATCTACAGTCTTTCAGAAAATTCAGGGGGTCATTGATGCTTGCAAT
AAACTATCTGGAATGCCTGATCTCTCCCTTTCTTTCATGAACCCTAGGCTTCTGGATGATGTCAGCTTTC
ACCCCTGCATCCGGTTCAAGCGTTGGGAATCTGAAAGAGTTTTGTCATTTATTCTCCAGATGGAATTT
CCGACTCATATCATACCGTGTGAGTCTCACAAAATCTAGTGGCAATACCAGTGTATGTGAAACATAGTATC
AGCTTTAAGGAGAACAGTTCTTGCGGCAGATTTGATATAACAATTGGACCAAAGCAGAATATGGGGAAAA
CTATTGAAGGAATTACAGTGACAGTTCACATGCCAAAAGTTGTGCTGAACATGAACCTGACCCACACA
AGGCAGCTATACATTTGATCCAGTACCAAGGTAACATGGGATGTGGGAAAAATTAACCCACAAAAG
CTCCCAAGTCTTAAGGACTGGTAAATTTACAGTCTGGAGCCCCAAACCAGAAGAGAATCCGAGCCTCA
ACATACAGTTTAAAGATCCAGCAGCTTGCTATTTTCAGGCTTAAAAGTAAACCGTTTGGACATGTATGGGGA
GAAATATAAGCCATTTAAAGGAGTCAAATACGTCACGAAAGCTGGAAAGTTCCAAGTGAGGACATGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_012095 unedited
 CGAATTTTGGTATACGACTCACTATAGGGGCGGCCGATTTCGGCACGAGGCCGGCGCCG
 AATCACTGACTGGCACAGGTGTTGGGAAAATGATCCACAGTCTATTTCTCATAAACTGTT
 CCGGTGACATATTTCTAGAGAAGCACTGGAAGAGCGTTGTGAGCCAGTCTGTCTGTGATT
 ATTTCTTTGAAGCTCAAGAGAAAGCTGCTGATGTTGAAAATGTACCACCTGTCATTTCAA
 CACCTCACCACCTACCTCATCAGTATCTACCGGGATAAGCTCTTCTTTGTATCTGTCATAC
 AGACCGAAGTCCACCTCTCTTTGTAATTGAGTTCCTACATCGAGTTGCTGACACTTTTC
 AGGACTACTTTGGTGAGTGTTCCAGAGGCTGCAATTAAGGATAATGTGGTCATAGTATATG
 AACTCTTAGAAGAAATGTTAGACAATGGATTTCCACTGGCTACCGAATCTAACATTTTGA
 AAGAATTGATTAACCACCAACAATTCTACGCTCTGTTGTCAACTCTATTACAGGCAGTA
 GTAATGTTGGGGACACACTCCCCACCGGCAGCTGTCCAACATACCATGGCGTCGGGCAG
 GGGTAAAGTACACAAACAATGAAGCCTATTTTGATGTTGTTGAAGAAATAGACGCAATTA
 TAGATAAATCAGGATCTACAGTCTTTGCAGAAATTCAGGGGGTCATTGATGCTTGCATTA
 AACTATCTGGAATGCCTGATCTCTCCCTTTCTTTCATGAACCCTNAGCTTCTGGATGATG
 TCAGCTTTCACCCCTGCATNCGGNTNACGCGTNGGGAATCTNNGAAGAGTTTGCATTT
 ATTCCTNCAGATGAAANTNTNCGACTNCATATCATACCGTGTGAGCTCACC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_012095 unedited
 CTATGGCCCGGCCGCGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTTTTGGGCTTTCATCTTTTTATTGGTAGCCACCCCGAGCT
 TCCAAATGATTTACTGGGTTCTAACCAATTAATAAATACCGAATTTGATTGGAAAAGG
 AAACCTTTTACTTGACATTTTAATAAAAATTGCTTAAGGGAAGGAGCTCCTGGCATACA
 TTTTACTTGGATAAAAAAAAAAATGCCCCGGGGGAAACTGGACCGTCCAAGTTAAAT
 TGGTGAAATTAGGGATTCACAAAAAGCAAAACAATGGTCTCATTGTTCTTTTGAGGGA
 CCAACTTGAAAAGTCAAAACCTTTAAAATAAAAAGCCATTGGACCCGGTAGCCCAACT
 AGGCCAAAGGAATAAATATTTGGCAACATTTTGACTTTAACTGCCCATCTGAAAATAATT
 TCTTTAAAATTTGGAACTGCAAAACGTTGCCTTTTTTATTCCATGAAAGGCAGGGCCG
 GCCAAGGGAAAAAACTGGTGAGTGGGCTCCTTGTACCAACACCAACCAACAACCCTTGA
 CAACATAAATGGGAAGAATGTAAGGCTATCCTTAACATAAGGGAAAGACCGGTATAAAC
 TGAAAAATTGAAAGAAAATGGCGCCCCAAGAGAATAGCCTTAATAACCAGAAGGGAACC
 TGAAGAACAAGCCCTTAAGATATTAACCTTCAAGCTTTCTCATTCTTGGAGGCTAATG
 AAGCAAAATAACTTGGCCCGGGCCACCCAGAAGAAAGAAGTTAATAAAAAGTCCCAATGA
 AATTGAGTGCATAATACAACGTTGACTGACTTCCAAAACACGTGATCGGTAAGATC
 TCAATGTC

Restriction Sites:

NotI-NotI

ACCN:

NM_012095

Insert Size:

3960 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).

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_012095.3](#), [NP_036227.1](#)

RefSeq Size: 5144 bp

RefSeq ORF: 1257 bp

Locus ID: 26985

UniProt ID: [Q9Y2T2](#)

Cytogenetics: 10q22.2

Domains: Adap_comp_sub

Protein Pathways: Lysosome

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 (2) lacks an alternate exon in the 5' UTR, compared to variant 1. 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.