

## Product datasheet for **SC319123**

### AP1M2 (NM\_005498) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AP1M2 (NM_005498) Human Untagged Clone
Tag:	Tag Free
Symbol:	AP1M2
Synonyms:	AP1-mu2; HSMU1B; MU-1B; MU1B; mu2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_005498.3  
GGCGCTTCCGAGGAAGAAGGAAGCGGGCCGCGCCATCGCCTCCCGGCGCTCCCTCCCCGA  
CTCCTAAGTCCTTCGGCCGCCACCATGTCCGCCTCGGCTGTCTTATTCTGGACGTTAAG  
GGCAAGCCATTGATCAGCCGCAACTACAAGGGCGATGTGGCCATGAGCAAGATTGAGCAC  
TTCATGCCTTTGCTGGTACAGCGGGAGGAGGAAGGCGCCTGGCCCCGCTGCTGAGCCAC  
GGCCAGGTCCACTTCCTATGGATCAAACACAGCAACCTCTACTTGGTGGCCACCACATCG  
AAGAATGCCAATGCCTCCCTGGTACTCCTTCCCTGTATAGACAATAGAGGTATTCTGC  
GAATACTTCAAGGAGCTGGAGGAGGAGCATCCGGGACAACTTTGTCATCGTCTACGAG  
TTGCTGGACGAGCTCATGGACTTTGGCTTCCCGCAGACCACCGACAGCAAGATCCTGCAG  
GAGTACACTCACTCAGCAGAGCAACAAGCTGGAGACGGGCAAGTCACGGGTGCCACCCACT  
GTCACCAACGCTGTGCTCGGCTCCGAGGGTATCAAGTATAAGAAGAACGAGGTCTTC  
ATTGATGTCATAGAGTCTGTCAACCTGTGGTCAATGCCAACGGCAGCGTCTTCTGAGC  
GAAATCGTCGGTACCATCAAGCTCAAGGTGTTTCTGTCGGGAATGCCAGAGCTGCGGCTG  
GGCCTCAATGACCGCTGCTCTTCGAGCTCACTGGCCTTTCAGGCAGCAAGAACAATCA  
GTAGAGCTGGAGGATGTAAAATCCACCAGTGCCTGCGGCTCTCTCGCTTGGACAACGAC  
CGCACCATCTCCTTCATCCCGCCTGATGGTGACTTTGAGCTCATGTCATACCGCCTCAGC  
ACCCAGGTCAAGCCACTGATCTGGATTGAGTCTGTCAATTGAGAAGTTCTCCACAGCCGC  
GTGGAGATCATGGTCAAGGCCAAGGGGCAGTTTAAAGAACAGTCAGTGGCCAACGGTGTG  
GAGATATCTGTGCCTGTACCCAGCGATGCCGACTCCCCAGATTAAGACCAGTGTGGGC  
AGCGCCAAGTATGTGCCGGAGAGAAACGTCGTGATTTGGAGTATTAAGTCTTCCCGGGG  
GGCAAGGAGTACTTGATGCGAGCCCACTTTGGCCTCCCCGTGTGAAAAGGAAGAGGTG  
GAGGGCCGGCCCCCATCGGGTCAAGTTTGGATCCCCACTTACCCTCTCTGGGATC  
CAGGTCCGATACATGAAGATCATTGAGAAAAGTGGTTACCAGGCCCTGCCCTGGGTTGCG  
TACATCACCCAGAGTGGCGATTACCAACTTCGTACCAGCTAGAAGGGAGAAGAGATGGGG  
GCTTGAACACGGGCTTCTTACAGCCCCGGATGCAGATTTTAGAGGGAGGGCAGGTGCG  
GGCTGTGTGTGTGTGTGAGGGCAGGTCTGGACTTGGCAGTTTCTTGCTCCAGCACC  
CGCCCCCTCTCACCTCTTCTTATTCCATAGGCTGGGAGAGAACTCTCTGCTTCCCTC  
GCCCTTGGAGCTTCCCCATCCCCCTGATTTTATATGAAGAAATAGAAGAGGGGCTTGA  
GTCCCCCTCGCGAGTGCCTTCTTGAATTACCTGCCTTAGCGGGTGTGCGGGTCCCTCC  
TTCACAGCGCTGAGCCAGAGGTCCCCTGGCCCTCCTCTGAATTTTAGGATGTCATT  
AAAAAGATGAATCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_005498

**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:**

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\\_005498.3](#), [NP\\_005489.2](#)

**RefSeq Size:** 1749 bp

**RefSeq ORF:** 1272 bp

**Locus ID:** 10053

**UniProt ID:** [Q9Y6Q5](#)

**Cytogenetics:** 19p13.2

**Domains:** Adap\_comp\_sub

**Protein Pathways:** Lysosome

**Gene Summary:** This gene encodes a subunit of the heterotetrameric adaptor-related protein complex 1 (AP-1), which belongs to the adaptor complexes medium subunits family. This protein is capable of interacting with tyrosine-based sorting signals. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]  
Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. It encodes isoform 2, which is shorter than isoform 1.