

## Product datasheet for **SC111102**

### AP4M1 (NM\_004722) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AP4M1 (NM_004722) Human Untagged Clone
Tag:	Tag Free
Symbol:	AP4M1
Synonyms:	CPSQ3; MU-4; MU-ARP2; SPG50
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004722, the custom clone sequence may differ by one or more nucleotides

```
ATGATTTCCCAATTCTTCATTCTGTCCTCCAAGGGGACCCGCTCATCTACAAAGACTTCCGCGGGGACA
GTGGCGGCCGGGATGTGGCCGAGCTCTTCTACCGGAAGCTGACGGGACTGCCAGGAGACGAGTCCCCGGT
TGTCATGCATCACCATGGCCGTATTTTCATTACATCAGACACAGCGCCCTCTATTTGGTGGTCACAAC
TCAGAAAACGTTTCTCCCTTCAGCCTCCTAGAAGTGTCTCCAGGTTGGCCACCCTTCTGGGCGATTACT
GTGGCTCCCTGGGCGAGGGGACCATCTCCCGCAATGTGGCTCTGGTATACGAAGTCTGGATGAAGTGT
GGACTATGGCTATGTACAGACCACATCCACGGAGATGCTGAGGAATTTTCATCCAGACGGAAGCTGTGGT
AGCAAGCCCTTCAGCCTCTTTGACCTCAGCAGCGTTGGCTTGTTTGGGGCTGAGACACAACAGAGCAAAG
TGGCCCCCAGCAGTGCAGCCAGCCGCCCGTCTGTCCAGTGCCTGACCAGAGCCAAAAGAATGAAGT
TTTTTTGGATGTGGTCGAGAGATTGTCTGTACTGATAGCATCTAATGGATCCCTGCTGAAGTGGATGTG
CAGGGAGAGATTCCGGCTCAAGAGCTTCTTCTAGCGGCTCTGAGATGCGCATTGGCTTGACGGAAGAGT
TTTGTGTGGGGAAGTCAGAGCTGAGAGGTTATGGGCCAGGAATCCGGGTGATGAAGTCTCGTTTCACAG
CTCTGTGAATCTGGACGAATTTGAGTCTCATCGAATCCTCCGCTTGAACCACTCAGGGCAGCTGACT
GTGATGCGGTACCAACTCTCCGATGACCTCCCCCACCCTCCCTTCCGGCTCTCCCCCTGTGCAGT
GGGACCGAGGCTCAGGCCGGCTCCAGGTTTATCTAAAGTTGCGATGTGACCTGCTCTCAAAGAGCCAAGC
CCTCAATGTCAGGCTGCACCTCCCCCTGCCTCGAGGGGTGGTCAAGCTGTCTCAGGAGCTGAGCAGCCCA
GAGCAGAAGGCTGAGCTGGCAGAGGGAGCCCTTCGCTGGGACCTGCCTCGGGTGCAAGGAGGCTCTCAAC
TCTCAGGCCTTTTCCAGATGGACGTCCCAGGGCCCCCAGGACCTCCCAGCCATGGGCTCTCCACCTCGGC
CTCTCCTCTGGGGCTGGGCCCTGCCAGTCTCTCCTTCAGGCTTCCCCGGCACACGTGCTCTGGCCTCCAG
GTCCGATTCTCAGGCTGGCCTTCAGGCCATGCGGCAATGCCAACCCCCACAAGTGGGTGCGACACCTAA
GCCACAGCGACGCTATGTCATTTCGGATCTGA
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004722 unedited  
 CTATAGGGCGGCCCGGAATTCGCACGAGGGGAGAATCGCTCTTAAAGGGCCAGCGCACAC  
 CGCGTTCTTTTGTTCGGGGCCGCGAGGGCGGGGCAGGCCGACTTTCGCCGTCTTCTTGT  
 CTACTCTCCAGAACGGCCATGATTTCCCAATTCTTATTCTGTCTCCAAGGGGACCCGC  
 TCATCTACAAAGACTTCCGCGGGGACAGTGGCGGCCGGATGTGGCCGAGCTCTTCTACC  
 GGAAGCTGACGGGACTGCCAGGAGACGAGTCCCCGGTTGTCATGCATCACCATGGCCGTC  
 ATTTTCATTACATCAGACACAGCGGCCTCTATTTGGTGGTCACAACCTCAGAAAACGTTT  
 CTCCCTTCAGCCTCCTAGAAGTCTCTCCAGTTGGCCACCCTTCTGGGGATTACTGTG  
 GCTCCCTGGGCGAGGGGACCATCTCCCGCAATGTGGCTCTGGTATACGAACTCCTGGATG  
 AAGTGCTGGACTATGGCTATGTACAGACCACATCCACGGAGATGCTGAGGAATTCATCC  
 AGACGGAAGCTGTGGTCAGCAAGCCCTTCAGCCTCTTTGACCTCANCANCCTGGCTTTG  
 TTGGGGGCTGAGACACACAGAGCAAAGTGGCCCCAGCATGCAGCCAGCCCGCCGCTCT  
 GTCAGCCGCTTGTCCCGAGCCAAGAAATGAATTTTTTTGGATGGGGGCAAAAAATGGCC  
 TGTCGGAAACCCTAATAAAACCCCTGGGCTTCCCGAAAAATTTTGGTGGGGGGAAT  
 ACAAACTTAGAAGTTTGGGCCAAAATACCCGGCCAAGAAAACTTTTTTCACAACCTT  
 GAAAATTGGACAAA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_004722 unedited  
 NTTTTGCTCTGGACCGCGGGCCGAATCTAGNGATCGGTTTTTTTTTTTTTTTTTTTTTCT  
 GAGACAGTCTCACTCTGTCAACCAAGCGGGAGTCACTGATGCAACCTCTGCTCACTGCA  
 GCCTCCACCACCTGGGTTCAAGCATTCTAGTACCTCAACCTCCCCAGTAGCTGGGACTAC  
 AGGTGCGTGCCACCATGCCTGGTAGTTTTTGTATTTTTAGTGGAGATGAGGTTTCTCCA  
 TTTTGGCCAGGCTCTTGACCTCAAGTATCCACCACCTCAGCCTCCAAGTGTGGGAT  
 ACAGGCCTAAGATGCTGCACCTGGCCCCGTGCCATCTTTTCTTATGAGAAAGCCACAG  
 TGTTCTGTACACACACTAATAGTTCAGCATAATTTGGCCTCCAACAGGGGCACTGAGATG  
 ATAAGGAATGTCCTTTTTTACCCCATCCCCAAGGTTCTTCTCAAGAGTGTACCAGCCCT  
 CCCTCTACCTGGCTTTTTTCCCCAGCCCTCCCTCTACCTGGCTTTTTTCTGTTCTGCAG  
 AAACACTGTGCTCCTGTTCTGGCAAAGCTGCGCCACCGCCTGACAATCAGGACGCCTAT  
 CGGGCAGAATTCGGGTCCTTGGGCCCTCCTCTGCTCCCAGGTGGTCAAGGCTCGGGCC  
 CAGGCTGCTCTGCAGGCTCAGCAGGTCAACAGGACCACTCTGACCATCACGCAGGTCCGT  
 GGCCGGGTGGGGAGGAGAATAGGAGGAAGCANAGGAGAACCCTGTGTGGGACAGGCAC  
 TTGCACACAGCCACATGTGCCCTCAGTCAGTAGTCTCAGGGCAACCCAGGCCCTGAGTGA  
 GGATGCCCCACCCTAGTGAGAGCACTGAGGAAGAGCGAGGGGAGCCAGGCCCTTCTCTT  
 AGACTTCTCTTTAATAGATGGGCCATTTCT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_004722

**Insert Size:**

3810 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\\_004722.2](#), [NP\\_004713.2](#)

**RefSeq Size:** 1818 bp

**RefSeq ORF:** 1362 bp

**Locus ID:** 9179

**UniProt ID:** [O00189](#)

**Cytogenetics:** 7q22.1

**Domains:** Adap\_comp\_sub

**Protein Pathways:** Lysosome

**Gene Summary:** This gene encodes a subunit of the heterotetrameric AP-4 complex. The encoded protein belongs to the adaptor complexes medium subunits family. This AP-4 complex is involved in the recognition and sorting of cargo proteins with tyrosine-based motifs from the trans-golgi network to the endosomal-lysosomal system. [provided by RefSeq, Jul 2008]