

Product datasheet for **SC117611**

AP2M1 (NM_004068) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AP2M1 (NM_004068) Human Untagged Clone
Tag:	Tag Free
Symbol:	AP2M1
Synonyms:	AP50; CLAPM1; MRD60; mu2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117611 sequence for NM_004068 edited (data generated by NextGen Sequencing)

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ATGATTGGAGGCTTATTTCATCTATAATCACAAGGGGGAGGTGCTCATCTCCCGAGTCTAC
CGAGATGACATCGGGAGGAACGCAGTGGATGCCTTTTCGGGTCAATGTTATCCATGCCCGG
CAGCAGGTGCGCAGCCCCGTACCAACATTGCTCGCACCAGCTTCTCCACGTTAAGCGG
TCCAACATTTGGCTGGCAGCAGTACCAAGCAGAATGTCAACGCTGCCATGGTCTTCGAA
TTCCTCTATAAGATGTGTGACGTGATGGCTGCCTACTTTGGCAAGATCAGCGAGGAAAAC
ATCAAGAACAATTTTGTGCTCATATATGAGCTGCTGGATGAGATTCTAGACTTTGGCTAC
CCACAGAATTCGAGACAGGCGCGCTGAAAACCTTCATCACGCAGCAGGGCATCAAGAGT
CAGCATCAGACAAAAGAAGAGCAGTACAGATCACCAGCCAGGTAACGGGCAGATTGGC
TGGCGGCAGAGGGTATCAAGTATCGTCGGAATGAGCTCTTCCTGGATGTGCTGGAGAGT
GTGAACCTGCTCATGTCCCCACAAGGGCAGGTGCTGAGTGCCCATGTGTGGGCCGGGTG
GTGATGAAGAGCTACCTGAGTGGCATGCCTGAATGCAAGTTTGGGATGAATGACAAGATT
GTTATTGAAAAGCAGGGCAAAGGCACAGCTGATGAAAACAAGCAAGAGCGGGAAGCAATCA
ATTGCCATTGATGACTGCACCTTCACCAGTGTGTGCGACTCAGCAAGTTTGACTCTGAA
CGCAGCATCAGCTTTATCCCGCCAGATGGAGAGTTTGGCTTATGAGGTATCGCACAAAC
AAGGACATCATCCTTCCCTTCCGGGTGATCCCGCTAGTGCAGAAAGTGGGACGCACAAA
CTGGAGGTCAAGGTGGTCAAGTCCAACCTTTAAACCCTCACTGCTGGCTCAGAAGATC
GAGGTGAGGATCCCAACCCACTGAACACAAGCGGGGTGCAGGTGATCTGCATGAAGGGG
AAGGCCAAGTACAAGGCCAGCGAGAATGCCATCGTGTGGAAGATCAAGCGCATGGCAGGC
ATGAAGGAATCGCAGATCAGCGCAGAGATTGAGCTTCTGCCTACCAACGACAAGAAGAAA
TGGGCTCGACCCCATTTCCATGAACCTTTGAGGTGCCATTTCGCGCCCTCTGGCCTCAAG
GTGCGCTACTTGAAGGTGTTTGAACCGAAGCTGAACTACAGCGACCATGATGTCATCAA
TGGGTGCGCTACATTGGCCGAGTGGCATTATGAAACTCGCTGCTAG
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Clone variation with respect to NM_004068.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_004068 unedited TACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCGAGGCAGCGGGCAGACGAG CAGGGGGCGGGCGGACATCTTGGGATCCGGAGAGTGGCCGGCCGGCAGAGCAGGGGGCC GAGGACACCAGGTCTGTTCTCAGAGCGATGGGCCGGGAGACTGATCTGCCGCCATGATT GGAGGCTTATTCATCTATAATCACAAGGGGGAGGTGCTCATCTCCCGAGTCTACCGAGAT GACATCGGGAGGAACGCAGTGGATGCCTTTCGGGTCAATGTTATCCATGCCCGGCAGCAG GTGCGCAGCCCCGTCACCAACATTGCTCGCACCAGCTTCTCCAGTTAAGCGGTCCAAC ATTTGGCTGGCAGCAGTCACCAAGCAGAATGTCAACGCTGCCATGGTCTTCAATTCCCTC TATAAGATGTGTGACGTGATGGCTGCTACTTTGGCAAGATCAGCGAGGAAAACATCAAG AACAAATTTGTGCTCATATATGAGCTGCTGGATGAGATTCTAGACTTTGGCTACCCACAG AATTCGAGACAGGCGCTGAAAACCTTCATCACGCAGCAGGGCATCAAGAGTCAGCAT CAGACAAAAGAAGAGCAGTCACAGATCACCAGCCAGGTAAGTGGCAGATTGGCTGGCGG CGAGAGGGTATCAAGTATCGTCGGAATGAGCTCTTCTGGATGTGCTGGAGAGTGTGAAC CTGCTCATGTCCCACAGGGCAGGTGCTGAGTGCCCATGTGTCGGGCCGGGTGGTGATG AANAGCTACCTGAGTGGCATGCCTGAAATGCAGTTTGGGATGAAATGACAAGATTGTTAT TGAAAAGCAGGNCANAGGCACAGCTGATGAAACAAGCAGAGCGGAAGCATCAATTGCAT TGTGACTGCACCTTACCATGTGTGCGATCANCAGTTGACTCGACGCACATAGCTTTATC CGCGAN
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_004068 unedited TTTTTTTTCTCCACACCTTCTACACAAATTTTATTGGGTTTGTAACTGGACGAAGTCAC ACGTGTACAAAATGAAGCTCACACTATCCCAAAGCAGAAGNTAGGGACTGAGCCCGGGA TCCATTACTGGCCTTTGGGGGAGCTCTGAGGTGAGGGG
Restriction Sites:	NotI-NotI
ACCN:	NM_004068
Insert Size:	2000 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:	<ol style="list-style-type: none"> 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_004068.3 , NP_004059.2
RefSeq Size:	1958 bp
RefSeq ORF:	1308 bp
Locus ID:	1173
UniProt ID:	Q96CW1

Cytogenetics:	3q27.1
Domains:	Adap_comp_sub
Protein Families:	Druggable Genome
Protein Pathways:	Endocytosis, Huntington's disease
Gene Summary:	<p>This gene encodes a subunit of the heterotetrameric coat assembly protein complex 2 (AP2), which belongs to the adaptor complexes medium subunits family. The encoded protein is required for the activity of a vacuolar ATPase, which is responsible for proton pumping occurring in the acidification of endosomes and lysosomes. The encoded protein may also play an important role in regulating the intracellular trafficking and function of CTLA-4 protein. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2015]</p> <p>Transcript Variant: This variant (1) lacks two alternate in-frame exons compared to variant 3. The resulting isoform (a) has the same N- and C-termini but is shorter compared to isoform c.</p>