

Product datasheet for **RC205800**

AP4M1 (NM_004722) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AP4M1 (NM_004722) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AP4M1
Synonyms:	CPSQ3; MU-4; MU-ARP2; SPG50
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC205800 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGATTTCCCAATTCTTCATTCTGTCTCCAAGGGGACCGCTCATCTACAAAGACTTCCGCGGGGACA
 GTGGCGGCCGGGATGTGGCCGAGCTCTTCTACCGAAGCTGACGGGACTGCCAGGAGACGAGTCCCGGT
 TGTTCATGCATCACCATTGGCCGTCATTTTATTACATCAGACACAGCGGCCTCTATTTGGTGGTCACAACT
 TCAGAAAACGTTTCTCCCTTCAGCCTCCTAGAAGTGTCTCCAGGTTGGCCACCCTTCTGGGCGATTACT
 GTGGCTCCCTGGGCGAGGGGACCATCTCCCGCAATGTGGCTCTGGTATACGAAGTCTGGATGAAGTGT
 GGACTATGGCTATGTACAGACCACATCCACGGAGATGCTGAGGAATTTTCATCCAGACGGAAGCTGTGGTC
 AGCAAGCCCTTCAGCCTCTTTGACCTCAGCAGCGTTGGCTTGTGGGGCTGAGACACAACAGAGCAAAG
 TGGCCCCCAGCAGTGCAGCCAGCCGCCCGCTCCTGTCCAGTCGCTCTGACCAGAGCCAAAAGAATGAAGT
 TTTTTTGGATGTGGTCGAGAGATTGTCTGTACTGATAGCATCTAATGGATCCCTGCTGAAGTGGATGTG
 CAGGGAGAGATTGGCTCAAGAGCTTCTTCTAGCGGCTCTGAGATGCGCATTGGCTTGACGGAAGAGT
 TTTGTGTGGGAAGTCAGAGCTGAGAGGTTATGGGCCAGGAATCCGGGTGATGAAGTCTCGTTTACACG
 CTCTGTGAATCTGGACGAATTTGAGTCTCATCGAATCCTCCGCTTGCAACCACTCAGGGCGAGCTGACT
 GTGATGCGGTACCAACTCTCCGATGACCTCCCCTACCGCTCCCCTTCCGGCTCTTCCCCTCTGTGAGT
 GGGACCGAGGCTCAGGCCGGCTCCAGGTTTATCTAAAGTTGCGATGTGACCTGCTCTCAAAGAGCCAAGC
 CCTCAATGTGAGCTGCACCTCCCCCTCGCTCGAGGGTGGTCAGCCTGTCTCAGGAGCTGAGCAGCCCA
 GAGCAGAAGGCTGAGCTGGCAGAGGGAGCCCTTCGCTGGGACCTGCCTCGGTGCAAGGAGGCTCTCAAC
 TCTCAGGCCTTTTCCAGATGGACGTCCCAGGGCCCCAGGACCTCCAGCCATGGGCTCTCCACCTCGGC
 CTCTCCTCTGGGCTGGGCCCTGCCAGTCTCTCCTTCGAGCTTCCCGGCACACGTGCTCTGGCCTCCAG
 GTCCGATTCTCAGGCTGGCCTTCAGGCCATGCGGCAATGCCAACCCCAAGTGGGTGCGACACCTAA
 GCCACAGCGACGCCTATGTCATTCGGATC

AC**CGGCCG**CTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA
 TTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

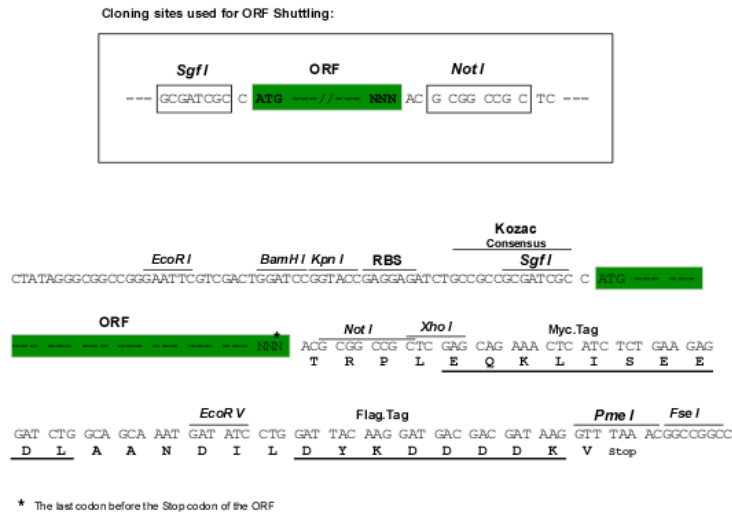
>RC205800 protein sequence
 Red=Cloning site Green=Tags(s)

MISQFFILSSKGDPLIYKDFRGDSGGRDVAELFYRKL TGLPGDESPVMHHHGRHFIHIRHSGLYLVVTT
 SENVSPFSLLELLSRLATLLGDYCGSLGEGTISRNVLYELLDEVLDYGYVQTTSTEMLRNFIQTEAVV
 SKPFSLFDLSSVGLFGAETQQSKVAPSSAASRPVLSRSQSQKNEVFLDVVERLSVLIASNGSLLKVDV
 QGEIRLKSFLPSGSEMRIGL TEEFCVGKSELRGYPGIRVDEVSFHSSVNLDEFESHRI LR LQPPQGELT
 VMRYQLSDDLPSPLPFRLFPSVQWDRGSGRLQVYLKLRCDLLSKSQALNVRLHLP LPRGVVSLSQELSSP
 EQKAELAEALRWDLPRVQGSQLSGLFQMDVPGPPGPPSHGLSTSASPLGLGPASLSFELPRHTCSGLQ
 VRFLRLAFRPGNANPHKWVRHLSHSDAYVIRI

TRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-NotI

Cloning Scheme:


ACCN: NM_004722

ORF Size: 1359 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_004722.4](#)

RefSeq Size: 1886 bp

RefSeq ORF: 1362 bp

Locus ID: 9179

UniProt ID: O00189

Cytogenetics: 7q22.1

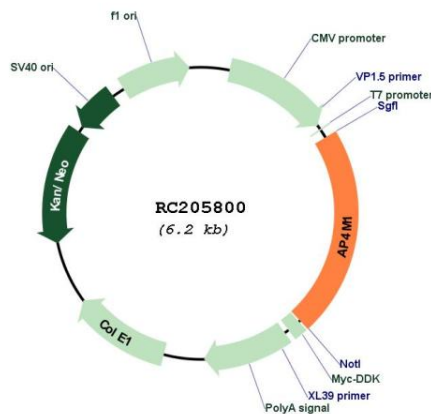
Domains: Adap_comp_sub

Protein Pathways: Lysosome

MW: 50 kDa

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]

Product images:



Circular map for RC205800