

## Product datasheet for **RN213721**

### Ap4m1 (NM\_001037977) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ap4m1 (NM_001037977) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ap4m1
Synonyms:	MGC156474
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**Fully Sequenced ORF:** >RN213721 representing NM\_001037977  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATTTCCAGTCTTCTATTCTGTCTTCCAAGGGGATCCGCTCATCTATAAAGACTTCCGAGGGGATA  
 GTGGTGGTCGTGATGTGGCCGAGCTCTTCTACCGAAGCTGACGGGACTGCCGGAGCGAGTCCCGGT  
 TGTCAATGTATCACGATGATCGTCAATTTTATTACATCAGACACAGTGGTCTCTATTTGGTGGCCACAAC  
 TCAGAAAATGTCTCTCCTTTCCAGCTCCTGGAGCTACTTTCCAGGTTAGCCACTCTCTTGGGTGACTACT  
 GTGGCTCACTCAATGAGGGGACCATCTCACGGAATGTGGCGTTGTCTACGAACTCCTGGATGAAGTGCT  
 GGATTACGGCTATGTGCAGACTACGTCCACAGACATGCTGAGGAACTTCATCCAACTGAAGCCGCGGTC  
 AGCAAGCCTTTCAGCCTCTTCGACCTCAGCAGCGTCGGTCTGTTGGGGCAGAGACGCAGCAGAACAGAG  
 TGGCCCCAAGCAGTGCAGCCAGCCGCCCTGTCTGTCCAGTCTGTTCTGACCAGAGCCAAAAGAATGAAGT  
 GTTTTTAGATGTGGTCGAAAGGCTGTCTGTTCTGATTGCATCTAATGGCTCCCTGTTGAAGTGGATGTC  
 CAAGGAGAGATCCGGCTCAAGAGCTTCCCTCCAGCAGTCTGAGATATGCATTGGCTTGACAGAAGAAT  
 TCTGTGTTGAAAAGTCAGAACTGAGAGGTTATGGGCCAGGGATTGAGATTGATGAGGTGTCATTCCATAG  
 CTCTGTCAATCTAGATGAGTTTGAATCTCATCGGATCCTCCACCTGCAGCCGCTCAGGGCAGCTGACT  
 GTGATGAGATACCAGCTCTGTGATGACCTCCCTCACCCTCCCTTCCGGCTGTTTCCCTCTGTACAAT  
 GGGACCAAGGCTCAGGCCGGCTCCAGGTTTACCTGAAGTTACGGTGTGACCTGCCCCAAAGAGCCAAGC  
 TCTCAACATTCATCTGCACCTTCCCTCGCTCGAGGGTCTGTCAGCCTGTCTCAGAACTGAGCAGCCCA  
 GATCAGAAGGCAGAGCTGGGAGAAGGAGCCCTTCACTGGGACCTGCCCGGGTACAAGGAGGTTCTCAAC  
 TCTCTGGCCTTTTCCAGATGGATGTCCTGGCTTGCAGGGACCTCCAGCCGTTGGCCCTCCCTCAGC  
 ACCCCCTTGGGGCTGGGTCTGCCAGCCTCTCCTTTGAACTCCCTCGGCACACATGCTCTGGCCTCCAG  
 GTTCGATTCTCAGACTGTCTTTAGCGCTGTGGTAATGCCAACCTCACAAGTGGGTTGACATCTAA  
 GCCACAGCAACGCCTACGTAATTCGGATT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001037977

**Insert Size:** 1362 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\\_001037977.1](#), [NP\\_001033066.1](#)

RefSeq Size: 1362 bp

RefSeq ORF: 1362 bp

Locus ID: 304344

UniProt ID: [Q2PWT8](#)

Cytogenetics: 12q11

**Gene Summary:** Component of the adaptor protein complex 4 (AP-4). Adaptor protein complexes are vesicle coat components involved both in vesicle formation and cargo selection. They control the vesicular transport of proteins in different trafficking pathways. AP-4 forms a non clathrin-associated coat on vesicles departing the trans-Golgi network (TGN) and may be involved in the targeting of proteins from the trans-Golgi network (TGN) to the endosomal-lysosomal system. It is also involved in protein sorting to the basolateral membrane in epithelial cells and the proper asymmetric localization of somatodendritic proteins in neurons. Within AP-4, the mu-type subunit AP4M1 is directly involved in the recognition and binding of tyrosine-based sorting signals found in the cytoplasmic part of cargos (By similarity). The adaptor protein complex 4 (AP-4) may also recognize other types of sorting signal (PubMed:14572453). [UniProtKB/Swiss-Prot Function]