

## Product datasheet for MC223659

### Ap4e1 (NM\_175550) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ap4e1 (NM\_175550) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Ap4e1  
**Synonyms:** 2310033A20Rik; 9930028M04Rik; AV087807  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC223659 representing NM\_175550  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGAGCGACATGGTGGAGAGGACGCTGACCGACTGCCGGGGCTCTTCTGCAGAACAGCTGGGAGGAC  
 CTGCGGCCTCCAGAGCACCTTCTTCTCCAGGCTGGGCGGCCTCATCCGTGGCGTCACTGCACTCTCATC  
 CAAGCACGAAGAAGAGAAATTAATCCAGCAGGAAGTGAAGTCTGAAGGCAACTGTTTCTGCTCCGACC  
 ACGACTGAAAACGATGAAGGAATGTATGGTGAAGTATATACTGTGAGATGCTTGGATACGATGCTT  
 CTTTTGGTTATATACATGCAATCAAGTTGGCCCAACAAGGAAACCTTTAGAAAAAGAGTGGGTTATTT  
 GGCTGTTTCTTTATTTCTACATGAAAGTCATGAACTTTTGCTTCTCCTTGTGAATACAGTGGTAAAGGAC  
 CTGCAGAGCACTAATCTGGTAGAAGTATGTATGGCACTTACTGTTGTCAGCCAGATTTTCCCTCGAGAAA  
 TGATCCAGCCGTTCTTCCACTAATAGAAGATAAACTTCAACATTCTAAGGAGATTATACGAAGAAAAGC  
 AGTTCTGGCATTATACAAATTTTACCTCATTGCCCAATCAAGTACAGCACATCCACTAAATTTCCG  
 AAAGCGCTTTGTGACAGAGATGTTGGGGTCATGGCTGCCTTTTGACATATACCTTAGGATGATTAAGG  
 AAAATGCTTCTGGCTATAAAGACTTGACGGAGAGTTTTGTAACAATTTTAAAGCAGGTGGTGGCGGGAA  
 GCTCCCGGTAGAGTTCAGTTACCACAGCGTGCCAGCACCATGGTTACAGATTGAGTCTCCTGAGAATACTG  
 GGACTGCTGGGAAAGACGATGAAAGGACAAGTGAATTAATGTATGATGTTCTTGTGAATCCTTACGAA  
 GAGCCGAGTTAAATCACAATGCACTTACGCTATTCTGTTGAATGTGTACACACAATCTATTCTATTTA  
 TCCTAAGTCAGAATTACTTGAGAAGGCTGCCAAGTGCATTGGAAAATTTGTTCTGTACCTAAAATAAAC  
 CTCAAATATTTAGGACTGAAGGCTTACCTATGTTATCCAGCAGGATCCTTCTCGGCTTCTCAACACC  
 AGATAACCATAATTGAATGCCTAGACCACCTGATCCCATTATTAAGAGAGACTCTGAACTTCTTTA  
 CAGAATTACAAAATGCACAGAATGTAGTGGTTATTGTACAGAAAATGCTTGAATACTTACATCAGAGCAA  
 GAAGAGCATATCATCATAGTTTGTGGCAGAATTGCTGAGCTGGCTGAGAAATATGCTCCTGACAACG  
 TGTGGTTTATTCAGACAATGAATGCTGTGTTTTAGTGGGAGGAGATGTAATGCATCCAGATATTCTCAG  
 CAACTTCTGAGACTGCTAGCAGAAGTTTTGATGATGAAACAGAAGATCAACAATTAAGACTCTACGCA  
 GTTCAGTCTTATCTTACTTTACTAGATATGAAAAATCTTTCTATCCACAGAGATTTCTTCAAGTTATGA



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GTTGGGTGTTAGGAGAGTACTCCTACCTCTTAGATAAAGAAAGTCCAGAGGAGGTTATAACCAGGCTCTA  
 CAAGTTACTTATGAGTGACTCCATTTCTCAGAAACGAAAGCATGGTTGTTTGGTGCAGTAACCAAGTTG  
 ACACCTCAAGCTCATTCTTCTCCCTTAGTTGAGAAATTAATCCAAGAATCACTGTATCCTTGAATACTT  
 GTCTGAGACAGCATGCATTTGAATTGAAACATCTGCATGAAAATACAGAGCTTATGAAGAGCCTGCTTCA  
 GGGTGCCTCAGAATTGTGAAGACATAGTGGCAGATGCGTCTTTATCTTTCTGGATGGTTTTGTGGCTGAA  
 GGACTCAGTCAGGAGCAGCACCTTATAAGCCCCATCACCAGCGCCAAGAGGAACAGCTCTCTCAGGAAA  
 AGGTTCTCAATTTGAACCATATGGACTATCATTCTTCTCATGTGGCTTCACTGGACGACAGTCTCCGGC  
 TGGCATTTCCTGGGCTCTGATATATCTGGAAACAGTGCCGAGACAGGGCTGAAAGAGACAAGCAGTTTG  
 AAGATGGAAGGGATAAAGAAATTATGGGGTAAAGAGGGCTATCTGCCAAGAAGGAGAGTGAAGTGGTG  
 ATAAACCGGAAGCCTCACATGTTCTGCAGAGGGTGCAACAGTGGAGAATGTAGACCAAGCCACGACCAG  
 AAAGGACCAAGCTCAAGGCCATATCCCTTCTACAGAGGAGAAAGAAAAGCAGCTGTTGGCATCATCGCTG  
 TTTGTTGGGCTAGGACCAGAAAATACAGTCGATTTGTTGGGAAAAGCAGATGTTGTGTCTCACAAAGTTCA  
 GGAGGAAATCAAACTCAAGGTAGCCAAAGCACAAGACACCCAGCGCTCCTACTGCTCCCTGCTCCGC  
 CCTCAGCCTTGGCTCAGATGTGGCTGGTGGGGATGAGGACGGTCTGAGTGTGTGGATAGAGGGGACGGA  
 GAAGTCAAGTTCAGAGCTTTTTCGTTCTGAGTCTCTCTCGGGCCGCCCTCAGCTGAGAAGCTCGAGAGTG  
 TCAGTTCGCTGTGCCTCTTTATTTGCTGATAACAACATGGAAGTCTTTAATCCCCCTTATCCTCTGC  
 AACTTCAACTGTCAAGGAAGAACTCCTGAGTGCAGGCATTCAGGTCTCGTGAAATCTGCAGTAATGAA  
 GCCGTGTCTGTCTTCTTACAAAGTCTGGAGGGATGATTGTTTATTGGTGTCTGGGACGCTACTAGTA  
 AAAGTCACTCAGAGTTTACAGATGCTCAGTTAGAAATTTTCTGTGGAAAATTTCAAGATCATTGAGCA  
 ACCTGAATGTTCTTCTCTGTGATAGAAACAGAACGCACCAATCCTTTCAATACAGTGTGCAGATGGAA  
 AGCCCTGTATAGAGGGGACTCTCTGGTTTTATAAAGTATCAAATGATGGATACGCATTCTGTCAAC  
 TGGAAATTTCCATGAACCTACCATTATTAGATTTTATTAGACCATTAAAGATCTCAACTGAAGACTTTGG  
 CAAACTCTGGTTGCTTTGCAAATGATGTGAAGCAAATATAAAAATATCAGAGCCTGGAGTTGCTCTG  
 ACTTCTGTCTAACAGAGCTGCAGCAGAACCTGAGACTTCGTGTGATTGACGTCATAGGCAATGAAGGGC  
 TGTGGCCTGTAAGCTGCTCCATCCACCCCTGTGTGCTGCACTGCCGAGTACATGCTGACGCGGTAGC  
 TCTGTGTTCCGGTCTCTAGCTCTGTTCTTTCAGACTATTTATCGTGTCACTGTCAAAAAGTATGCAG  
 ACATCCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_175550
- Insert Size:** 3369 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\\_175550.3](#), [NP\\_780759.2](#)

RefSeq Size: 6524 bp

RefSeq ORF: 3369 bp

Locus ID: 108011

UniProt ID: [Q80V94](#)

Cytogenetics: 2 61.76 cM

**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. AP-4 is involved in the recognition and binding of tyrosine-based sorting signals found in the cytoplasmic part of cargos, but may also recognize other types of sorting signal. [UniProtKB/Swiss-Prot Function]