

Product datasheet for **MC205886**

Ap4s1 (NM_021710) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ap4s1 (NM_021710) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ap4s1
Synonyms: AI314282
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC053339
 GGACGCCATGCTAAAAGCCAAAATGGCTGCCCAAGGATGCCCGCAGCGCCGCCCGTGGAGGGGAGC
 CGGGCGCGCCGTCACCGCTCGCCGGCCGGAGCGGCTCAGGTTCCAGCTACGGTCATCCAGTGCCATAACT
 TTTAAAGGATATTGCAAAGAACTGGGAAAGGGTGAAAAATGATCAAGTTTTTCCTTATGGTGAACAAG
 CAAGGGCAGACCCGACTGTCTAAGTACTACGAGCATGTGGACATTAATAAACGTGCGCTTCTGGAGACTG
 AGGTCAGCAAGAGTTGCCTGTCTCGGTCCAGCAACAATGCTCATTGAAATACAAGGATTTTAACT
 GATCTACCGCAATATGCAGCTCTCTTTGTGTGGTTGGAGTTAATGACTGAGAATGAGATGGCTATC
 TATGAATTTATACACAATTTGTGGAAGTTTAGATGGTACTTCAGCCGAGTGAGTGAATTAGATATAA
 TGTTAATTTGGATAAAGTTCACATCATTTGGATGAGATGGTGTAAATGGCTGCATTGTGAAACTAA
 CAGAGCCAGAATCTTGCCCTCTGCTGATTCTTGACAAGCTGTCGAAAGCTGATGAAGACGATCAGGG
 TTTGAGTGCTGTGAAGCCAAGGAAGAGATCATGGATGACAGCAGCCTTCTATAGTTCCTATCCCATAGT
 TCCTAAAGAGAAAACAATCTTGTGTACACATTTTCTCTTAACAGAGAGCCACAATTTTACTTGGTAAC
 TGTAAGCTTGCTTTTCCTTCTATAGTACTGCAGGGTTGCAAGTGTGATGCAAGCATGGCAGTTGTCCATC
 AGCCAATAAACTCAAATTGACTTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_021710

Insert Size: 435 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).



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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: [BC053339](#), [AAH53339](#)

RefSeq Size: 895 bp

RefSeq ORF: 435 bp

Locus ID: 11782

UniProt ID: [Q9WVL1](#)

Cytogenetics: 12 B3

Gene Summary: This gene encodes the sigma subunit of the adaptor-related protein complex 4 which mediates intracellular membrane trafficking along the endocytic and secretory transport pathways. This complex contains four subunits, beta, epsilon, mu, and sigma, and belongs to a family of five adapter protein complexes, including three clathrin-associated complexes and two non clathrin-associated complexes, that localize to different intracellular compartments and mediate membrane vesicle trafficking using distinct pathways. In humans, loss-of-function mutations in this gene have been linked to specific adapter complex 4 deficiency disorders including hereditary spastic paraplegia. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2016]

Transcript Variant: This variant (2) uses two alternate splice sites in the 3' coding region, compared to variant 1, resulting in a novel 3' coding region and longer 3' UTR. It encodes isoform 2 which has a distinct C-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.