

## Product datasheet for **MR200941**

### Ap4s1 (NM\_021710) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ap4s1 (NM\_021710) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ap4s1  
**Synonyms:** AI314282  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR200941 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGATCAAGTTTTTCCTTATGGTGAACAAGCAAGGGCAGACCCGACTGTCTAAGTACTACGAGCATGTGG  
 ACATTAATAAACGTGCGCTTCTGGAGACTGAGGTCAGCAAGAGTTGCCTGTCTCGGTCCAGCAACAATG  
 CTCATTGATGAATACAAGGATTTAACTGATCTACCGCAATATGCAGCTCTCTTTGTTGGTTGGA  
 GTTAATGACACTGAGAATGAGATGGCTATCTATGAATTTATACACAATTTGTGGAAGTTTTAGATGGGT  
 ACTTCAGCCGAGTGAGTGAATTAGATATAATGTTAATTTGGATAAAGTTCACATCATTTTGGATGAGAT  
 GGTGTTAAATGGCTGCATTGTGGAACTAACAGAGCCAGAATTCCTGCCCTCTGCTGATTCTTGACAAG  
 CTGTCGGAAAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR200941 protein sequence  
 Red=Cloning site Green=Tags(s)

MIKFFLMVKNKQGQTRLKSKYYEHVDINKRALLETEVSKSCLSRSSSEQSFIEYKDFKLIYRQYAALFVVVG  
 VNDTENEMAIYEFIHNFEVLDGYFSRVSELDIMFNLDKVIILDEMVLNGCIVETNRARILAPLLILDK  
 LSES

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



**Cloning Scheme:**


**ACCN:** NM\_021710

**ORF Size:** 435 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.

**RefSeq:** [NM\\_021710.4](#)

**RefSeq Size:** 1113 bp

**RefSeq ORF:** 435 bp

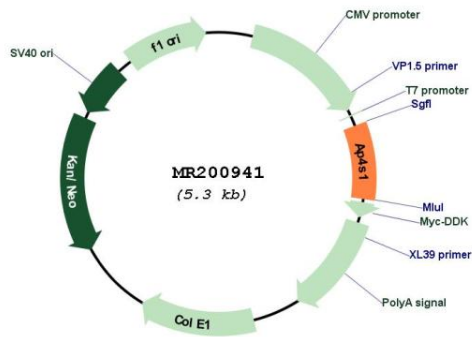
**Locus ID:** 11782

**UniProt ID:** [Q9WVL1](#)

**Cytogenetics:** 12 B3  
**MW:** 16.8 kDa

**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]

**Product images:**



Circular map for MR200941