

Product datasheet for **MG200941**

Ap4s1 (NM_021710) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ap4s1 (NM_021710) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ap4s1
Synonyms: AI314282
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200941 representing NM_021710
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATCAAGTTTTTCCTTATGGTGAACAAGCAAGGGCAGACCCGACTGTCTAAGTACTACGAGCATGTGG
 ACATTAATAAACGTGCGCTTCTGGAGACTGAGGTCAGCAAGAGTTGCCTGTCTCGGTCCAGCGAACAATG
 CTCATTGATGAATACAAGGATTTAACTGATCTACCGCAATATGCAGCTCTCTTTGTTGGTTGGA
 GTTAATGACACTGAGAATGAGATGGCTATCTATGAATTTATACACAATTTGTGGAAGTTTTAGATGGGT
 ACTTCAGCCGAGTGAGTGAATTAGATATAATGTTAATTTGGATAAAGTTCACATCATTTGGATGAGAT
 GGTGTTAAATGGCTGCATTGTGGAACTAACAGAGCCAGAATTCCTGCCCTCTGCTGATTCTTGACAAG
 CTGTCGGAAAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200941 representing NM_021710
 Red=Cloning site Green=Tags(s)

MIKFFLMVKNKQGQTRLKSKYYEHVDINKRALLETEVSKSCLSRSSSEQCSFIEYKDFKLIYRQYAALFVVVG
 VNDTENEMAIYEFIHNFEVLDGYFSRVSELDIMFNLDKVIILDEMVLNGCIVETNRARILAPLLILDK
 LSES

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

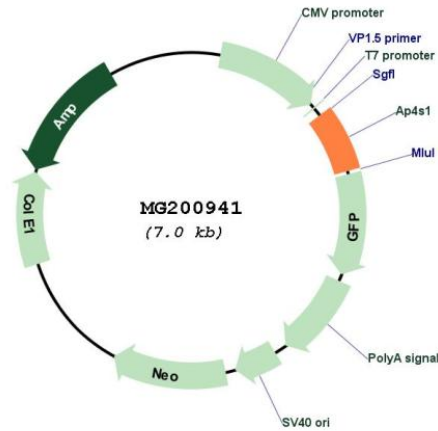


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Cloning Scheme:



Plasmid Map:



ACCN: NM_021710

ORF Size: 432 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:	<ol style="list-style-type: none">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:	<u>NM_021710.4</u>
RefSeq Size:	1034 bp
RefSeq ORF:	435 bp
Locus ID:	11782
UniProt ID:	<u>Q9WVL1</u>
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]