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Product datasheet for MR207171

Ap4m1 (NM_021392) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ap4m1 (NM_021392) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ap4m1
Synonyms:	4930443L05Rik; Ap4m4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR207171 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATTTCCCAGTTCTTCATTCTGTCTTCCAAGGGGGATCCGCTCATCTATAAAGACTTCCGCGGGGACA
GTGGTGGTCGTGATGTGGCAGAGCTCTTCTACCGGAAGCTGACGGGACTGCCTGGAGGCGAGTCCCCGGT
TGTCATGTATCACGGTGATCGTCATTTTATTCACATCAGACACAGTGGGCTCTATTTGGTGGCCACAACC
TTAGAAAACGTCTCTCCTTTCAGCCTTCTGGAGCTGCTTTCCCGGCTAGCCACTCTCTTGGGTGACTACT
GTGGCTCACTCAATGAGGGAACCATCTCACGCAATGTGGCGCTTGTCTACGAACTCCTGGATGAAGTGCT
GGATTATGGCTATGTGCAGACTACATCCACAGAAATGCTGAGGAACTTCATCCAAACTGAAGCTGTGGTC
AGCAAGCCCTTCAGCCTCTTTGACCTCAGCAGTGTTGGATTGTTCGGGGCAGAGACACAGCAGAATAAAG
TGGCCCCAAGCAGCGCAGCCAGCCGCCCTGTCCTGTCCAGTCGTTCTGACCAGAGCCAAAAGAATGAGGT
GTTTTTGGATGTGGTGGAGAGACTGTCTGTACTGATTGCATCTAATGGCTCGTTGTTGAAGGTGGACGTC
CAAGGAGAGATACGGCTCAAGAGCTTCCTTCCCAGCGGTTCTGAGATATGCATTGGCTTGACAGAAGAAT
TTTGTGTTGGAAAGTCAGAACTGAGAGGTTATGGGCCAGGGATTCGAGTTGATGAGGTGTCATTCCATAG
TTCTGTCAATCTAGATGAGTTTGAGTCTCATCGGATCCTCCGCCTGCAGCCACCTCAGGGCGAGCTGACT
GTGATGAGATACCAGCTCTCTGATGACCTCCCCTCACCACTCCCCTTCCGGCTCTTTCCCTCTGTGCAGT
GGGACCAAGGCTCAGGCCGGCTCCAGGTTTACCTGAAGTTACGGTGTGACCTGCCCCCAAAGAGCCAAGC
TCTCAACATTCATCTGCACCTTCCCCTGCCCCGAGGGGTCATCAGCCTGTCTCAGGAACTGAGCAGTCCA
GATCAGAAGGCAGAGCTGGGAGAAGGAGCCCTTCACTGGGATCTGCCCCGGGTACAAGGAGGCTCTCAAC
TCTCCGGCCTTTTCCAGATGGATGTCCCTGGCTTGCAGGGACTTCCCAACCATGGACCTTCTCCCTTGGG
GCTGGGTCCTGCCAGCCTCTCCTTTGAACTCCCTCGGCACACATGCTCCGGTCTCCAGGTTCGATTCCTC
AGACTGTCCTTTAGTGCCTGTGGTAATGCCAATCCTCACAAGTGGGTTCGACATCTAAGCCACAGCAACG
CCTACGTAATTCGGATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

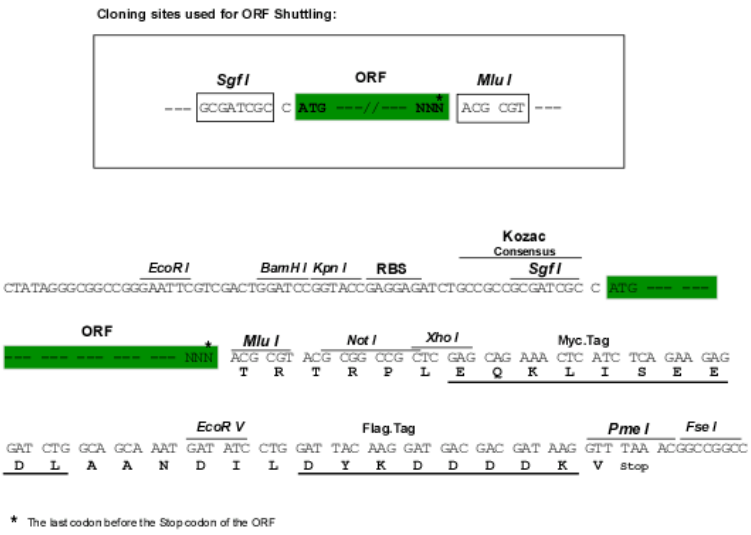
>MR207171 protein sequence
Red=Cloning site Green=Tags(s)

MISQFFILSSKGDPLIYKDFRGDSGGRDVAELFYRKLTGLPGGESPVVMYHGDRHFIHIRHSGLYLVATT
LENVSPFSLLELLSRLATLLGDYCGSLNEGTISRNVALVYELLDEVLDYGYVQTTSTEMLRNFIQTEAVV
SKPFSLFDLSSVGLFGAETQQNKVAPSSAASRPVLSSRSDQSQKNEVFLDVVERLSVLIASNGSLLKVDV
QGEIRLKSFLPSGSEICIGLTEEFCVGKSELRGYGPGIRVDEVSFHSSVNLDEFESHRILRLQPPQGELT
VMRYQLSDDLPSPLPFRLFPSVQWDQGSGRLQVYLKLRCDLPPKSQALNIHLHLPLPRGVISLSQELSSP
DQKAELGEGALHWDLPRVQGGSQLSGLFQMDVPGLQGLPNHGPSPLGLGPASLSFELPRHTCSGLQVRFL
RLSFSACGNANPHKWVRHLSHSNAYVIRI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021392

ORF Size: 1350 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_021392.4

RefSeq Size: 1734 bp

RefSeq ORF: 1350 bp

Locus ID: 11781

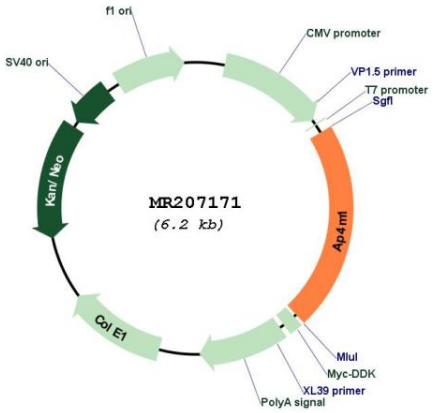
UniProt ID: Q9JKC7

Cytogenetics: 5 G2

MW: 49.5 kDa

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 (By similarity). It is also involved in protein sorting to the basolateral membrane in epithelial cells and the proper asymmetric localization of somatodendritic proteins in neurons (PubMed:18341993). 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. The adaptor protein complex 4 (AP-4) may also recognize other types of sorting signal (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207171