

Product datasheet for **MG207171**

Ap4m1 (NM_021392) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ap4m1 (NM_021392) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ap4m1
Synonyms:	4930443L05Rik; Ap4m4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207171 representing NM_021392
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTTCCAGTCTTCTATTCTGTCTTCCAAGGGGATCCGCTCATCTATAAAGACTTCCGCGGGGACA
 GTGGTGGTCGTGATGTGGCAGAGCTCTTCTACCGAAGCTGACGGGACTGCCTGGAGGCGAGTCCCGGT
 TGTCAATGTATCACGGTATCGTCATTTTATTACATCAGACACAGTGGGCTCTATTTGGTGGCCACAACC
 TTAGAAAACGTCTCTCTTTTCCAGCTTCTGGAGCTGCTTTCCCGCTAGCCACTCTCTTGGGTGACTACT
 GTGGCTCACTCAATGAGGGAACCATCTCACGCAATGTGGCGCTTGTCTACGAACTCCTGGATGAAGTGCT
 GGATTATGGCTATGTGCAGACTACATCCACAGAAATGCTGAGGAACTTCATCCAAACTGAAGCTGTGGTC
 AGCAAGCCCTTACGCCTTTTACCTCAGCAGTGTGGATTGTTCCGGGCAGAGACACAGCAGAATAAAG
 TGGCCCAAGCAGCGCAGCCAGCCGCCCTGTCTGTCCAGTCGTTCTGACCAGAGCCAAAAGAATGAGGT
 GTTTTTGGATGTGGTGGAGAGACTGTCTGTACTGATTGCATCTAATGGCTCGTTGTTGAAGTGGACGTC
 CAAGGAGAGATACGGCTCAAGAGCTTCCCTCCAGCGGTTCTGAGATATGCATTGGCTTGACAGAAGAAT
 TTTGTGTTGAAAAGTCAGAACTGAGAGGTTATGGGCCAGGGATTGAGATTGATGAGGTGTCATTCCATAG
 TTCTGTCAATCTAGATGAGTTTGTAGTCTCATCGGATCCTCCGCCTGCAGCCACCTCAGGGCGAGCTGACT
 GTGATGAGATACCAGCTCTCTGATGACCTCCCCTACCACTCCCCTTCCGGCTCTTTCCCTCTGTGCAGT
 GGGACCAAGGCTCAGGCCGGCTCCAGGTTTACCTGAAGTTACGGTGTGACCTGCCCCAAAGAGCCAAGC
 TCTCAACATTCATCTGCACCTTCCCCTGCCCGAGGGGTATCAGCCTGTCTCAGAACTGAGCAGTCCA
 GATCAGAAGGCAGAGCTGGGAGAAGGAGCCCTTCACTGGGATCTGCCCGGGTACAAGGAGGCTCTCAAC
 TCTCCGGCCTTTTCCAGATGGATGTCCCTGGCTTGCAGGGACTTCCAACCATGGACCTTCTCCCTGGG
 GCTGGGTCTCGCCAGCCTCTCTTTGAACTCCCTCGGCACACATGCTCCGGTCTCCAGGTTGATTCTCTC
 AGACTGTCCTTTAGTGCCTGTGGTAATGCCAATCCTCACAAAGTGGTTTCGACATCTAAGCCACAGCAACG
 CCTACGTAATTCGGATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207171 representing NM_021392
 Red=Cloning site Green=Tags(s)

MISQFFILSSKGDPLIYKDFRGDSGGRDVAELFYRKL TGLPGGESPVVMYHGDRHF IHIRHSGLYLVATT
 LENVSPFSLLELLSRLATLLGDYCGSLNEG TISRVALVYELLDEVLDYGYVQTTSTEMLRNFIQTEAVV
 SKPFSLFDLSSVGLFGAETQQNKVAPSSAASRPVLSSRSQSQKNEVFLDVVERLSVLIASNGSLLKVDV
 QGEIRLKSFLPSGSEICIGL TEEFCVKGSELRGYGP GIRVDEVSFHSSVNLDEFESHRI LRQPQGELT
 VMRYQLSDDLPSPLPFRLFP SVQWDQGSGLQVY LKLRCDLPPKSQALNIHLHLPLPRGVISLSQELSSP
 DQKAELGEGALHWDLPRVQGSQLSGLFQMDVPGLQGLPNHGPSPLGLGPASLSFELPRHTCSGLQVRFL
 RLSFSACGNANPHKWRHLSHSNAYVIRI

TRTRPLE - GFP Tag - V

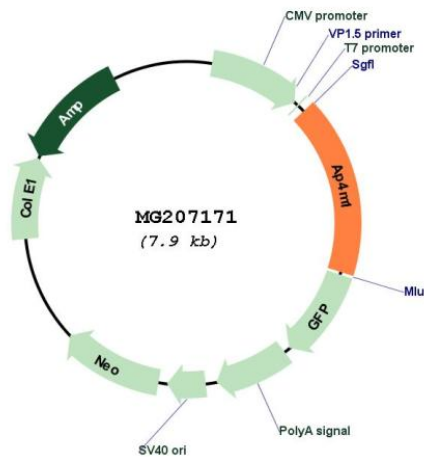
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_021392

ORF Size: 1347 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:	NM_021392.4
RefSeq Size:	1717 bp
RefSeq ORF:	1350 bp
Locus ID:	11781
UniProt ID:	Q9JKC7
Cytogenetics:	5 G2
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]