

## Product datasheet for **MR216173**

### Ap4b1 (NM\_026193) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ap4b1 (NM_026193) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ap4b1
Synonyms:	1810038H16Rik; Ap4b4; AV004952
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR216173 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCATACCTTGGCTCTGAGGACGTGGTGAAGGAACTGAAGAAGGCTCTGTGTAACCTCATATTCAGG  
 CTGATAGGCTGCGCTACCGAATGTCATCCAGCGAGTTATTAGGCACATGACTCAGGCTTGGACATGTC  
 TGATGTTTTTCATGAAAATGGTAAAGGCCAGTGCCACTGTAGATATTGTTCAAAAAAGTTGGTTTATCTG  
 TATATGGGCACATACGCACCTTTAAAACAGATCTAGCACTCTTGGCCATCAATACGCTCTGCAAAGACT  
 GCTCAGACCCCAACCAATGGTGCAGGACTGGCACTACGGAGTATGTGTAGCCTCAGGATGCCTGGTGT  
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 GTCCTCGGCTGTCCAAAATGCATAATCTTCACGGAGACTCTGAAGTGGATGGTGTCTCGTCAATGAGT  
 TGTACAGTCTTCTGCGTGACCAGGATCCAATTGTGGTTGTGAAGTGTCTGAGGTCTCTAGAGGAAATTTT  
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 GAGAAGCTCAGAGATGCAATCTCTGTGAAGCAAAGTAAGGCAAGGACTGAATCCCTGCATGGTTTTGTTT  
 CTGTCTGGAAACTGTGATTGGAACAGTTGGAGACATAAAATCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR216173 protein sequence  
Red=Cloning site Green=Tags(s)

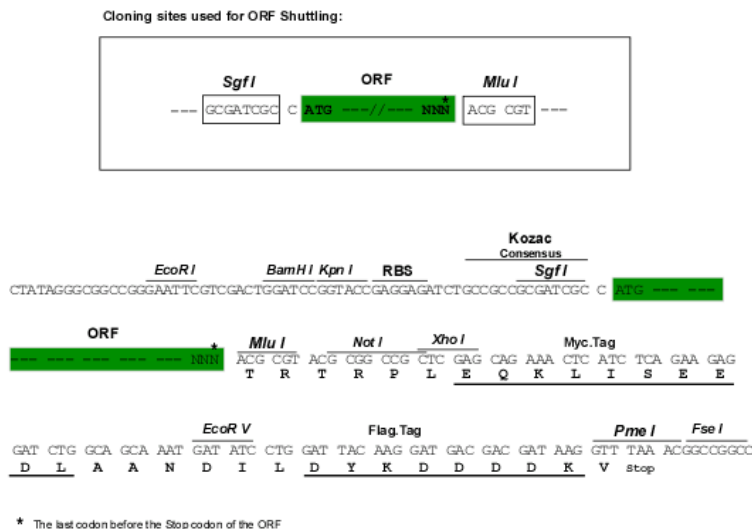
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MPYLGSEDEVVKELKKALCNPHIQADRLRYRNVIRVIRHMTQGLDMSDFMEMVKASATVDIVQKKLVYL
YMGTYAPLKPDALLAINTLCKDCSDPNPMVRGLALRSMCSLRMPGVQEYIQPVVNGLRDKASYVRRVA
VLGCAKMHNLHGDSEVDGALVNELYSLLRDQDPVVVNVCLRSLEEILKQEGGVVINKPIAHLLNRMSKL
DQWGQAEVLNLLRYQPRSEEEELFDILNLLDSYLKSSSTGVVMGATKFFLILAKKFPHVQTDVLRVKGP
LLAACSSERELCFAALCHVRQVLHSLPGHFSSHYKKFFCSYSEPHYIKLQKVEVLCENVQVLE
ELRGYCTDVAADFQAQAAIFAIGSIAKTYDQCQVQILTELLGLRQEHIITVVVQTFRDLVWLCPCQTEAVC
QALPGCEESIQDSEGKQALIWLLGVHGEKIPNAPYVLEDFVDNVKSETFPAVKMELLTALMRLVLSRPAE
CQDMLGRLLHYCIEEEKDMAVRDRGLFYRLLLVGIDKVKQILCSPKSDPSLGLLEDQPERPVNSWASDF
NTLAPVYGRAHWATISKCCQVERHRELPHNASFATSGHLISEENKKAQEPDSDLMLVPLNLQTAEYF
EKTWLSLRVSYQQVFPWQGEVQPDTLQMALKVVNIQTIAMSRAGAQPWKAYLSAQDDTGGLFLAELLKPK
ENSEMQISVKQSKARTESLHGFVSVLETVIGTVGDIKS
    
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_026193

**ORF Size:** 2217 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\\_026193.1](#), [NM\\_026193.2](#), [NP\\_080469.2](#)

**RefSeq Size:** 2914 bp

**RefSeq ORF:** 2217 bp

**Locus ID:** 67489

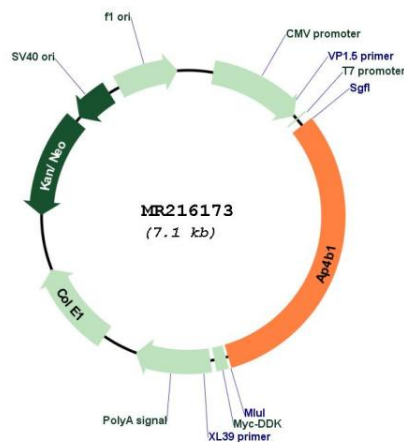
**UniProt ID:** [Q9WV76](#)

**Cytogenetics:** 3 F2.2

**MW:** 83 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). AP-4 is involved in the recognition and binding of tyrosine-based sorting signals found in the cytoplasmic part of cargos, but may also recognize other types of sorting signal (By similarity).[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR216173