

Product datasheet for **MR216183**

Ap4b1 (NM_001163553) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ap4b1 (NM_001163553) 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)



[View online »](#)

ORF Nucleotide Sequence:

>MR216183 representing NM_001163553
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCATACCTTGGCTCTGAGGACGTGGTGAAGGAACTGAAGAAGGCTCTGTGTAACCTCATATTCAGG
 CTGATAGGCTGCGCTACCGGAATGTCATCCAGCGAGTTATTAGGCACATGACTCAGGGCTTGGACATGTC
 TGATGTTTTTCATGAAAATGGTAAAGGCCAGTGCCACTGTAGATATTGTTCAAAAAAGTTGGTTTATCTG
 TATATGGGCACATACGCACCTTTAAAACCAGATCTAGCACTCTTGGCCATCAATACGCTCTGCAAAGACT
 GCTCAGACCCCAACCAATGGTTCGAGGACTGGCACTACGGAGTATGTGTAGCCTCAGGATGCCTGGTGT
 GCAGGAATATATCCAGCAGCCTGTTGTTAACGGTCTGCGTGATAAAGCTTCATATGTCAGAAGAGTAGCA
 GTCCTCGGCTGTCCAAAATGCATAATCTTCACGGAGACTCTGAAGTGGATGGTGTCTCGTCAATGAGT
 TGTACAGTCTTCTGCGTGACCAGGATCCAATTGTGGTTGTGAAGTGTCTGAGGTCTCTAGAGGAAATTTT
 AAAGCAGGAAGGAGGTGTTGTCATTAATAAGCCCATTGCCACCATCTCTTAAATAGAATGTCAAAGCTG
 GACCAGTGGGGCCAGGCTGAAGTACTGAACTTTCTGCTCCGCTACCAACCCCGCAGTGAGGAGGAACTGT
 TTGATATTCTCAATTTGTTGGACAGCTATCTCAAGAGCAGCAGTACTGGCGTGGTGTGAGGACCCAA
 ACTCTTTCTGATTTTGGCAAAAAGTTCACCCACGTGCAGACTGATGTGCTTGTGCGAGTCAAGGGGCC
 TTGCTGGCCGCTGCTCTTCAGAGAGCCGTGAGCTCTGTTTTGCTGCTCTCTGCCATGTCGCCCAGGTCT
 TGCACAGTTTGGCAGGTCACTTTAGCAGTCACTACAAAAGTTTTTTTGTCTTACTCGGAACCCCACTA
 CATCAAGCTCCAGAAGGTGGAGGTGCTGTGCGAGCTGGTGAATGACGAGAACGTGCAGCAGGTGCTGGAA
 GAGCTGCGTGGCTACTGCACTGACGTGGCTGCTGACTTTGCACAGGCTGCCATCTTCGCCATAGTGGCTG
 GTCAGACTTTCCGAGACCTGGTCTGGTTATGCCCTCAGTGTACTGAAGCTGTGTGTCAGGCTCTGCCCGG
 CTGTGAGGAGAACATTCAGACAGTGAAGGAAACAGGCACTTATTTGGTTACTTGGGGTCCACGGGGAA
 AAAATCCCAATGCTCCTTATGTGTTGGAGGACTTTGTAGACAACGTGAAGTCAGAGACATTTCCCGCTG
 TTAAGATGGAGCTACTGACCGCACTGATGCGCCTTGCTCTCTCGCGCCCGGCTGAGTGCCAGGACATGCT
 GGGACGGCTGCTGCATTACTGCATAGAGGAAGAAAAGGATATGGCTGTACGGGACCGGGTCTCTTCTAT
 TACCGCTCCTGTAGTTGGCATTGATAAAGTTAAGCAGATCCTGTGTAGTCTAAGTCTGACCCTTCTC
 TTGGACTTTTGGAGGATCAGCCGGAACGACCAGTAAATAGCTGGGCTTCCAGACTTCAACACACTGGCGCC
 AGTGTATGGCAGAGCCCACTGGGCAACTATCTCTAAATGCCAGCAGGTAGAGCGGCATCGCCTTGAGCTT
 CCCCAATGCATCCTTTGCCACATCAGGGCACTTGATTTCCGAGGAGAAACAAGAAGGTGCACAAGAAC
 CTGATTCTGACACTCTCATGCTGGTCCCAATCTCCAGCTTACTGCTGAGTATTTTGAGAAGACGTGGCT
 TAGCCTCAGAGTTAGTTACCAGCAGGTGTTTCTTGGCAGGGAGAAGTCCAGCCTGACACTCTACAATG
 GCTCTAAAAGTAGTGAACATTGAGACCATCGCAATGAGCAGAGCTGGGGCACAGCCCTGGAAGCCTACC
 TCAGTGTCTCAGGATGATACTGGCGGCTTTTCTTAGCTGAATTGCTACTGAAGCCTGAGAAGTCTCAGAGAT
 GCAAACTCTGTGAAGCAAAGTAAGGCAAGGACTGAATCCCTGCATGGTTTTGTTTCTGCTGAAACT
 GTGATTGGAACAGTTGGAGACATAAAATCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR216183 representing NM_001163553
Red=Cloning site Green=Tags(s)

```

MPYLGSEDEVVKELKKALCNPHIQADRLRYRNVIQVRIRHMTQGLDMSDVFMEMVKASATVDIVQKKLVYL
YMGTYAPLKPDLLAINTLCKDCSDPNPMVRGLALRSMCSLRMPGVQEYIQPVVNGLRDKASYVRRVA
VLGCAMHNLHGDSEVDGALVNELYSLLRDQDPIVVVNCLRSLEEILKQEGGVVINKPIAHLLNRMSKL
DQWQAEVLNLLRYQPRSEEEELFDILNLLDSYLKSSSTGVVMGATKFLILAKKFPHVQTDVLRVKGP
LLAACSSERELCFAALCHVRQVLHSLPGHFSHYKFFCSYSEPHYIKLQKVEVLCELVNDENVQQVLE
ELRGYCTDVAADFQAQAAIFAIVVVQTFRDVLVWLCPCQTEAVCQALPGCEENIQDSEGKQALIWLLGVHGE
KIPNAPYVLEDFVDNVKSETFPAVKMELLTALMRLVLSRPAECQDMLGRLLHYCIEEEKDMAVRDRGLFY
YRLLLVGIDKVKQILCSPKSDPSLGLLEDQPERPVNSWASDFNTLAPVYGRAHWATISKCCQVERHRLLE
PHNASFATSGHLISEENKEGAQEPDSDLMLVPLNQLTAEYFEKTWLSLRVSYQQVFPWQGEVQPDTLQM
ALKVNNIQTIAMSRAGAQPWKAYLSAQDDTGGLFLAELLLKPENSEMQISVKQSKARTESLHGFVSVLET
VIGTVGDIKS
    
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001163553

ORF Size: 2130 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_001163553.1](#), [NP_001157025.1](#)

RefSeq Size: 2830 bp

RefSeq ORF: 2133 bp

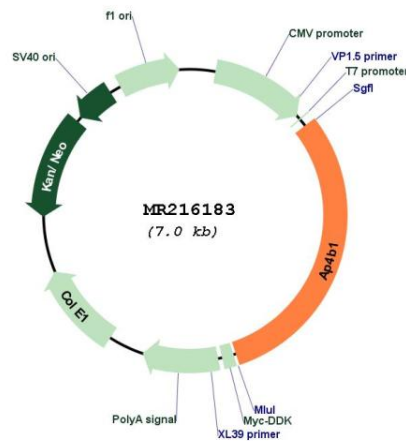
Locus ID: 67489

Cytogenetics: 3 F2.2

MW: 80.3 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 MR216183