

Product datasheet for **MC202043**

Ap4b1 (NM_026193) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ap4b1 (NM_026193) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ap4b1
Synonyms:	1810038H16Rik; Ap4b4; AV004952
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC054092 sequence for NM_026193
 GACAAGAGGTAATCCCTGCGCTCGGCCTCGGCACCCGAAAGCTGCTCCTTGTGTCTCAGGGCGAC
 GGGGCGGGATTTCCGCAGGAAGCTGTCTGGGGTGTCTCGGCCACTGGGACTAGATTCCCAGGGAGGAGG
 CTGTGCTAGGCTCCCACATCGAAATTAGGAGGAGCCACGAGTTCCTACGGGTCTGTGAAACTGTCCC
 GTGAGTGTGGCAGCATGCCATACCTTGGCTCTGAGGACGTGGTGAAGGAACTGAAGAAGGCTCTGTGT
 AACCTCATATTCAGGCTGATAGGCTGCGCTACCGGAATGTCATCCAGCGAGTTATTAGGCACATGACTC
 AGGGCTTGGACATGTCTGATGTTTTTCATGAAAATGGTAAAGGCCAGTGCCACTGTAGATATTGTTAGAA
 AAAGTTGGTTTATCTGTATATGGGCACATACGCACCTTTAAAACCAGATCTAGCACTCTTGGCCATCAAT
 ACGCTCTGCAAAGACTGCTCAGACCCCAACCCAATGGTGCAGGACTGGCACTACGGAGTATGTGTAGCC
 TCAGGATGCCTGGTGTGCAGGAATATATCCAGCAGCCTGTTGTTAACGGTCTGCGTGATAAAGCTTCATA
 TGTGAGAAGAGTAGCAGTCCCTCGGCTGTGCCAAAATGCATAATCTTACGGAGACTCTGAAGTGGATGGT
 GCTCTCGTCAATGAGTTGTACAGTCTTCTGCGTGACCAGGATCCAATTGTGGTTGTAAGTGTCTGAGGT
 CTCTAGAGGAAATTTAAAGCAGGAAGGAGGTGTGTGCTTAATAAGCCATTGCCACCATCTCTAA
 TAGAATGTCAAACCTGGACCAGTGGGGCCAGGCTGAAGTACTGAACTTTCTGCTCCGCTACCAACCCCGC
 AGTGAGGAGGAACTGTTTATATCTCAATTTGTTGGACAGCTATCTCAAGAGCAGCAGTACTGGCGTGG
 TGATGGGAGCCACAAATTTCTTCTGATTTTGGCAAAAAAGTTCCCCACGTGCAGACTGATGTGCTTGT
 GCGAGTCAAGGGGCCCTTGTGGCCGCTGCTCCTCAGAGAGCCGTGAGCTCTGTTTTGCTGCTCTCTGC
 CATGTCCGCCAGGTCTTGACAGTTTGCCAGGTCACTTTAGCAGTCACTACAAAAAGTTTTTTGCTCTT
 ACTCGAACCCCACTACATCAAGCTCCAGAAGGTGGAGGTGCTGTGCGAGCTGGTGAATGACGAGAACGT
 GCAGCAGGTGCTGGAAGAGCTGCGTGGCTACTGCACTGACGTGGCTGCTGACTTTGCACAGGCTGCCATC
 TTCGCCATAGGTAGCATTGCCAAGACTTACACAGATCAATGTGTGCAGATTCTAACAGAGTTGCTGGGAC
 TTCGACAAGAACATATCACTACTGTGGTCTGCGAGACTTCCGAGACCTGGTCTGGCTATGCCCTCAGTG
 TACTGAAAGCTGTGTGTCAGGCTCTGCCCGGCTGTGAGGAGAGCATTCAAGACAGTGAAGGAAACAGGCA
 CTTATTTGGTTACTTGGGGTCCACGGGGAAAAATCCCAATGCTCCTTATGTGTTGGAGACTTTGTAG
 ACAACGTGAAGTCAAGACATTTCCCGCTGTTAAGATGGAGCTACTGACCGCACTGATGCGCCTTGTCT
 CTCGCGCCCGGCTGAGTGCCAGGACATGCTGGGACGGCTGCTGCATTACTGCATAGAGGAAGAAAAGGAT
 ATGGCTGTACGGGACCGGGTCTCTTCTATTACCGCCTCCTGTTAGTTGGCATTGATAAAGTTAAGCAGA
 TCCTGTGTAGTCCTAAGTCTGACCCTTCTCTGGACTTTTGGAGGATCAGCCGGAACGACCAGTAAATAG
 CTGGGCTTCAGACTTCAACACACTGGCGCCAGTGTATGGCAGAGCCCACTGGGCAACTATCTCTAAATGC
 CAGCAGGTAGAGCGGCATCGCCTTGGCTTCCCAACAATGCATCCTTTGCCACATCAGGGCACTTGATTT
 CCGAGGAGAACAAGGTTGCACAAGAACCTGATTCTGACACTCTCATGCTGGTCCCTAATCTCCAGCT
 TACTGCTGAGTATTTGAGAAGAGCTGGCTTAGCCTCAGAGTTAGTTACCAGCAGGTGTTTCCTTGGCAG
 GGAGAAGTCCAGCCTGCACTCTACAAATGGCTCTAAAAGTAGTGAACATTTCAGACCATCGCAATGAGCA
 GAGCTGGGGCACAGCCCTGGAAAGCCTACCTCAGTGTCTCAGGATGATACTGGCGGCCCTTTCTTAGCTGA
 ATTGCTACTGAAGCCTGAGAAGTCAAGATGCAAACTCTGTGAAAGCAAAGTAAGGCAAGGACTGAATCC
 CTGCATGGTTTTGTTTCTGCTGCTGGAACTGTGATTGGAACAGTTGGAGACATAAAATCTAACAGAGTT
 CCTTCATTGTCTTAAAAAGCTGCTCGTAAGTCCACATATTAACCTCAAAGAGAGTGGGAGGTCTGGGAA
 CCCAGCTCTTATGTTTACCCAAAGTTTACGTTGTTCTTTTCAAGCCTGTGAGGAATTGATCCCATTTTAA
 AAGGAGAATGTACTGTATATTAGTAGATAAGAATGGGGTGAAGATAGGCTGGGGACACTTCTCTGAT
 CATTTTAGCGGTTGTAATATTTATTAATAATACCTGGCATTGTGGAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_026193

Insert Size: 2217 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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>BC054092</u> , <u>AAH54092</u>
RefSeq Size:	2725 bp
RefSeq ORF:	2217 bp
Locus ID:	67489
UniProt ID:	<u>Q9WV76</u>
Cytogenetics:	3 F2.2
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Variants 1 and 2 both encode the same isoform (a).</p>