

Product datasheet for **MC206684**

Ap2b1 (BC046772) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ap2b1 (BC046772) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ap2b1
Synonyms:	1300012O03Rik; AI788979
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC046772
 CGCAGTGGCTTAGATCTAGAGAGAATCGTGACGGGCAGGAAACCATTACACCACCACCCCGGCTGTGCTC
 TCCGACTGCCCGCCGCCGCCGCCACCCCGCCCTTGCCCTCCGGTTCACGCTAAAGATCCAGAATCATGA
 CTGACTCCAAGTACTTCACAACCAATAAGAAGGGAGAAATTTTGAATTAAGCTGAACTCAACAATGA
 AAAGAAAGAAAAGAGGAAGGAGGCTGTGAAGAAAGTGATTGCTGCTATGACCGTGGGGAAGGACGTGAGC
 TCTCTCTCCAGATGTGGTGAAGTGCATGCAGACTGACAACCTGGAACCTAAAGAAGCTCGTGTACCTCT
 ATCTGATGAACATGCCAAGAGTACGCCAGACATGGCCATCATGGCTGTCAACAGCTTTGTGAAGGATTG
 TGAAGATCCCAATCCTTTGATTGAGCCTTGGCAGTTAGAACCATGGGATGCATCCGGGTGGACAAGATT
 ACAGAGTATCTCTGTGAACCCCTCCGCAAGTGCTTGAAGGATGAAGACCCCTATGTTGCGAAAACGGCAG
 CAGTATGCGTGGCAAACTCCATGATATCAATGCCCAGATGGTGAAGATCAGGGATTTCTGGATTCTCT
 GCGGGATCTCATAGCAGATTCAAACCAATGGTGGTGGCTAATGCTGTAGCAGCATTGTCTGAGATCAGT
 GAGTCTCACCCAAACAGCAACTTACTTGATCTGAACCCTCAGAATATCAATAAGCTGCTCACAGCCCTGA
 ATGAATGCACTGAATGGGGCCAGATTTTATCCTGGACTGCCTGTCTAATTACAACCTAAAGATGACCG
 GGAAGCTCAGAGCATCTGTGAGCGAGTAACGCCTCGGCTCTCCACGCCAACTCTGCAGTGGTGTCTTCA
 GCCGTAAGTCTAATGAAGTTTCTAGAATTGTTGCCAAGGACTCTGACTACTACAATATGCTGCTAA
 AGAAGTTAGCACCTCCACTTGTACGTTGCTGTCTGGGGAGCCAGAAGTACAGTACGTCGCCCTGAGGAA
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 ATCCAGACCAAAGTAAATATGTGGTCCAAGAGGCAATGTTGTCATCAGGGACATCTCCGAAAATACC
 CCAACAAGTATGAAAGTATTATGTCACCCTCTGTGAAAACCTGGACTCCCTGGATGAACCCGATGCCCG
 AGCAGCATGATTTGGATTGTAGGAGAATATGCTGAAAGAATCGATAACGCAGATGAATTAAGTACTAGAGT
 TTCCTGGAAGGTTTTATGACGAAAAGCACCCAGGTGCAGCTCACACTGCTCACCGCCATAGTGAAGCTGT
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 TAACCCTGACCTTCGAGATCGGGTTATATATATTGGCGCTTCTTTCAACTGACCTGTGACAGCCAAA
 GAAGTGGTGTGTCTGAGAAGCCATTGATCTCTGAGGAGACAGACCTCATTGAGCCTACCCTCCTGGATG
 AGCTCATCTGCCACATTGGTTCTTTGGCCTCTGTGTACCACAAACCTCCAAATGCTTTTGTGGAAGGGAG
 TCATGGGATTCATCGAAACACTTGCCAATTCATCATGGGAGCACTGATGCAGGTGATAGCCCCGTGGC
 ACCACCACTACAACCAACCTGGAGCAGCCTCAGGTCATCCCTCTCAAGGTGACCTTCTGGGGATCTTT
 TGAACTTTGACCTGGGTCCCCAGTGAATGTCCCGCAAGTGTCTCCATGCAGATGGGAGCGGTGGATCT
 TTTAGGAGGAGGACTGGATAGCCTGCTTGGCAGTGACCTTGGCGGGGCATTGGAGGAAGTCCGGCAGTA
 GGACAGTCTTATCCCGTCATCAGTGCCTGCGACCTTCGCTCCTTACCTACTCCTGCTGTGGTACGCA
 GTGGTCTGAATGACCTGTTTGGCTTTCCACTGGGATAGGCATGGCACCTGGCGGATATGTGGCTCCTAA
 GGCGGTCTGGCTACCTGCAGTAAAGGCTAAAGGCTTGGAGATTTCCGGGACGTTTACTCACCGCCAAGGG
 CATATCTATATGGAATGAACCTTCAACAACAAGCTCTGCAGCATATGACAGACTTTGCCATCCAGTTTA
 ACAAGAATAGCTTCGGTGTATCCCAAGCACTCCCTTGGCCATACATACTCCACTGATGCCAAACAGAG
 CATTGACGTCTCTGCGCTCAACACCTTGGGCCAGTCATGAAGATGGAGCCCTGAATAACCTGCAG
 GTGGCTGTTAAAAACAATATTGATGTCTTCTACTTCAGCTGCCTCATCCCACTCAATGTCTTTTGTAG
 AAGATGGCAAAATGGAGCGCCAGTCTTCTTGAACGTGGAAGGATATTCCCAATGAAAATGAACCTCA
 GTTTCAGATTAAGGAATGTCATTTAAATGCTGACACAGTTTCCAGCAAGTTGCAAAAACAACATGTTTAC
 ACTATTGCCAAGAGGAACGTGGAAGGGCAGGACATGCTGTACCAGTCCCTGAAGCTCACTAATGGCATT
 GGATTTTGGCAGAGCTGCGGATCCAGCCAGGAAACCCCAATTATACGCTGTGCTGAAAGTGTAGAGCCCC
 TGAAGTCTCTCAGTACATCTATCAGGTCTACGACAGCATTTTGAAAAATAATAATGGTCCAGTCAGC
 CTGTAIAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: EcoRI-NotI
ACCN: BC046772
Insert Size: 2856 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:	BC046772 , AAH46772
RefSeq Size:	3038 bp
RefSeq ORF:	2856 bp
Locus ID:	71770
Cytogenetics:	11 C
Gene Summary:	<p>Component of the adaptor protein complex 2 (AP-2). Adaptor protein complexes function in protein transport via transport vesicles in different membrane traffic pathways. Adaptor protein complexes are vesicle coat components and appear to be involved in cargo selection and vesicle formation. AP-2 is involved in clathrin-dependent endocytosis in which cargo proteins are incorporated into vesicles surrounded by clathrin (clathrin-coated vesicles, CCVs) which are destined for fusion with the early endosome. The clathrin lattice serves as a mechanical scaffold but is itself unable to bind directly to membrane components. Clathrin-associated adaptor protein (AP) complexes which can bind directly to both the clathrin lattice and to the lipid and protein components of membranes are considered to be the major clathrin adaptors contributing the CCV formation. AP-2 also serves as a cargo receptor to selectively sort the membrane proteins involved in receptor-mediated endocytosis. AP-2 seems to play a role in the recycling of synaptic vesicle membranes from the presynaptic surface. AP-2 recognizes Y-X-X-[FILMV] (Y-X-X-Phi) and [ED]-X-X-X-L-[LI] endocytosis signal motifs within the cytosolic tails of transmembrane cargo molecules. AP-2 may also play a role in maintaining normal post-endocytic trafficking through the ARF6-regulated, non-clathrin pathway. The AP-2 beta subunit acts via its C-terminal appendage domain as a scaffolding platform for endocytic accessory proteins; at least some clathrin-associated sorting proteins (CLASPs) are recognized by their [DE]-X(1,2)-F-X-X-[FL]-X-X-X-R motif. The AP-2 beta subunit binds to clathrin heavy chain, promoting clathrin lattice assembly; clathrin displaces at least some CLASPs from AP2B1 which probably then can be positioned for further coat assembly (By similarity).[UniProtKB/Swiss-Prot Function]</p>