

## Product datasheet for MR211641

### Ap3b1 (NM\_009680) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ap3b1 (NM\_009680) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ap3b1  
**Synonyms:** AP-3; AU015684; beta3A; C78395; Hps2; pe; pearl; rim2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR211641 representing NM\_009680  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCTAGCAACAGTTTCGCCTACAACGAGCAGTCGGGAGGAGGGGAGCGGGAGCTCGGCAGGAGG  
 CCACCTCGACCATCTCTCCCTCGGGCGCCTTCGGCCTTTCAGCAGCGATTGGAAGAAGAATGAAGACCT  
 GAAGCAGATGCTGGAGAGCAACAAAGATTCTGCCAAGCTAGATGCTATGAAGCGAATTGTTGGGATGATT  
 GCGAAGGGGAAAAATGCCTCGAACTCTCCCTGCTGTTGTGAAGAATGTGGCCAGTAAAAACATCGAGA  
 TCAAGAAGTTGGTGTACGTTTACCTTGCCGATATGCTGAAGAACAGCAGGACCTGGCTCTCTGTCCAT  
 AAGCACTTTCCAGCGAGCTTTGAAGGACCCGAATCAACTAATCCGTGCAAGTGCCTTGAGAGTTTGTCA  
 AGTATTAGAGTGCCAATTATCGTGCCTGTCATGATGCTGGCTATTAAGGAGGCTTCAGCTGACCTGTCCG  
 CATATGTTAGGAAGAATGCAGCCATGCTATTCAGAAGCTGTACAGTCTTGACCCCGAGCAGAAGGAGAT  
 GTTAATTGAAGTCATTGAGAAGCTTCTGAAAGACAAGAGCACGCTGGTGGCTGGCAGTGTGGTATGGCC  
 TTTGAAGAAGTGTGCCGGATAGAATCGATCTGATTCACAGGAATTACCGAAAGCTTTGTAACCTGCTGG  
 TTGATGTTGAAGAGTGGGGCAGGTGGTCATAATCCATATGCTAACAAGATACGCTCGGACCCAGTTTGT  
 CAGTCTTGGAGAGAGGATGGTGGTCTGGAAGACAATGAGAAGAACTTCTATGAATCTGAGGAGGAGGAG  
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 GGCAAATGAAGCCAACATATCAACTCTTCTCGAGAATTCAGACCTACGTGAGAAGCCAGGACAAAACAG  
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 GAAATTGTTGCAATGCAGCCTGCACAGCATGGTAAATTATCAGACATATGGCCAAGCTCTGGACAGT



ATCACTGTTCTGTGGCTAGAGCAAGCATCCTTTGGCTAATTGGAGAAAAGTGTGAACGAGTTCCTAAAA  
 TTGCTCCTGATGTTTTGAGGAAAATGGCTAAAAGTTTCACTAGTGAAGATGATCTCGTGAAGTGCAGAT  
 TTTAAATCTTGCAGCAAAATTGTATTTAACTAATTCACAAACAGACAAAATTGCTTACCCAGTACATATTA  
 AATCTCGCAAGTATGATCAAACTACGACATCAGAGACCCGACACGATTTATTAGGCAGCTTATTGTTCC  
 CGAACGAGAAGAGTGGAGCCTTAAGTAAATATGCCAAAAAATCTTCTAGCACCGAAGCCTGCGCCACT  
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 CCAGAAGTGGCAAGAGGAACTCCAAAACCAAGAGGAAAAGTATTAGAAAATAGGGAGAAGAAAAAT  
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 CCAGTTGCCCTTCTACACCAGCCCTTCTCCAAGCTTGTAGCTGATCTTGAAGGTCTAAACTTGTCAA  
 CTCTTTCATCAGTCATCAACGTCAGTACGCTGTCTTCTGTCACAAAAACACATGAGCTGCTTACCCG  
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 TGCTTCAACGTCACCTCCAGCCACTGTTGGGAGCTGCTTTCACCTGTGGCCATGTGAGAAAGGACT  
 TTAAGAAGGACAAAGAACGCTCACTGGAATGAACGAGACTTCGGCTACACTCATCGCTCCACAGAA  
 CTTCACTCCCTCCATGATCCTCCAGAAGTGTAAATGTGGCAACCTCGGTGCTGTGCCTTCCAGCCAA  
 GATAACGTACACAGGTTTGCAGCTAGAAGTGTGCACAGTGGGTCGCTGATGCTAGTCACAGTGAAGTGA  
 AGGAAGGCTCCACAGCCAGCTTATCATCAACACCGAGAAAACCGTATTGGTTCTGTTCTGCTGCGGGA  
 GCTGAAGCCTGTCTGTCCAGGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211641 representing NM\_009680  
 Red=Cloning site Green=Tags(s)

MSSNSFAYNEQSGGGEAAELGQATSTISPSGAFGLFSSDWKKNEDLKQMLESNKDSAKLDAMKRIVGMI  
 AKGKNASELFPVAVKKNVASKNIEIKKL VYVYL VRYAEEQQDLALLSISTFQRALKDPNQL IRASALRVL S  
 SIRVPIIIVPMMLAIKEASADLSPYVRKNAHAHQKLYSLDPEQKEMLIEVIEKLLKDKSTLVAGSVVMA  
 FEEVCPDRIDL IHRNYRKL CNLLVDVEEWGQVVI IHMLTRYARTQFVSPWREDGGLEDNEKNFYEEEE  
 EEKEKSSRKSYAMDPDHRLLRNTKPLLQSRNAAVMVAQLYWHISPKSEAGVISKSLVRLLRNRE  
 QYIVLQNIATMSIERKGMFEPYLSFYVVRSTPTMIKTLKLEILTNLANEANI STLLREFQTYVRSQDKQ  
 FAAATIQTIGRCATSISEVTDCLNGLVCLLSNRDEIVVAESVVVIAKLLQMQPAQHGEIIRHMAKLLDS  
 ITVPVARASILWLI GENCERVPIAPDVL RMAKSF TSEDDL VKLQILNLA AKLYL TNSKQTKLLTQYIL  
 NLGKYDQNYDIRDRTRFIRQLIVPNEKSGALSKYAKKIFLAPKPAPLLESFPKDRDRFQLGTL SHTLNIK  
 ASGYLELSNWPEVAPDPSVRNVEVIESAKEWTP LGTKKKEKPMKFFYSEEEEEDEDEDEDEEEEEKEDE  
 DENPSDSSDSESGSGSESGDTGTEDSSEDSSSGQDSE TGSQAEARQKVAKRNSKTKRKSSENREKKN  
 ENSKASESSSESSMEDSSSESESESGDSEPA PRNVAPAKERKPPQERHPPSKDVFLDLDDFNPVST  
 PVALPTPALSPSLIADLEGLNLSTSSVINVTVPVFTKTHELLHRMHGKGLAAHYCFPRQPCIFSDKM  
 VSVQITL TNSDRKIENIHIGGKLPVGMQMHAFHPIDSL EPKGSVTVSVGIDFDCDSTQTASFQLCKTDD  
 CFNVTLPQPVGELLSPVAMSEKDFKKEQGLTGMNETSATLIAAPQNFTPSMILQKVVNVANLGA VPSSQ  
 DNVHRFAARTVHSGSLMLVTVELKEGSTAQLIINTEKTVIGSVLLRELKPVLSQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_009680

ORF Size: 3315 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\\_009680.3](#)

RefSeq Size: 3956 bp

RefSeq ORF: 3318 bp

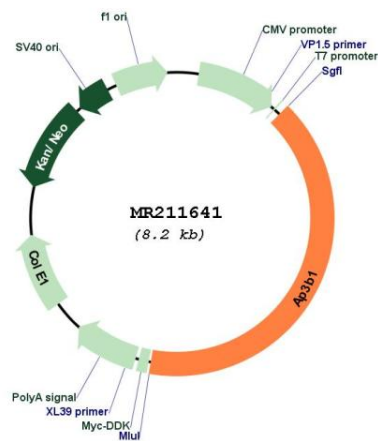
Locus ID: 11774

UniProt ID: [Q9Z1T1](#)

**Cytogenetics:** 13 49.22 cM  
**MW:** 123.2 kDa

**Gene Summary:** Subunit of non-clathrin- and clathrin-associated adaptor protein complex 3 (AP-3) that plays a role in protein sorting in the late-Golgi/trans-Golgi network (TGN) and/or endosomes. The AP complexes mediate both the recruitment of clathrin to membranes and the recognition of sorting signals within the cytosolic tails of transmembrane cargo molecules. AP-3 appears to be involved in the sorting of a subset of transmembrane proteins targeted to lysosomes and lysosome-related organelles. In concert with the BLOC-1 complex, AP-3 is required to target cargos into vesicles assembled at cell bodies for delivery into neurites and nerve terminals. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR211641