

## Product datasheet for MC202016

### Ap3d1 (NM\_007460) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ap3d1 (NM\_007460) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Ap3d1  
**Synonyms:** AA407035; Ap3d; Bolvr; mBLVR1; mh; mocha  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC053066 sequence for NM\_007460  
 GCGGCCCTAAGCTGGGAAGGTCTGTGGAAGCTGGGGGGGGCGGGCTTACTGGCTACCCCTTCTCCTCAG  
 ACTGCTCTCCGGCTACAGCCGCTCGCTCTGGCCTCCACGGCGTCCCCTCCGCGGCGCCGAAACACAGCG  
 GGGCGGTTGCCTGAGGTGCGGTGCGCGGTCCCGGCACCTTCTAGGGCCGCGCAGCGGGCTTCCCTCG  
 GAGGCCGAGCCACGGGCCCGCGCATGGCCCTCAAGATGGTCAAGGGCAGTATCGACCGCATGTTCTGA  
 TAAGAACCTGCAGGATCTGGTCCGCGGCATCCGCAACCACAAGGAGGACGAGGCCAAGTACATCTCCAG  
 TGCATTGACGAGATCAAGCAGGAGCTGAAGCAGGACAACATCGCTGTGAAGGCCAACGCTGTCTGCAAGC  
 TCACCTACTTACAGATGCTTGGGTACGACATCAGCTGGGCTGCCTTCAACATCATTGAAGTCATGAGTGC  
 CTCCAAGTTCACATTCAAGCGTGTGGCTACCTTGGCGCCTCCCAGTGTCCATGAAGGTACCGACGTC  
 ATCATGCTGACCACCAACAGATCCGAAAGGACCTGAGCAGCCCCAGCCAGTACGACACTGGAGTGGCAC  
 TGACTGGTCTGTCTGTTTTGTACCCCAAGATCTTCCAGAGACCTGGCAAATGACATCATGACCCTGAT  
 GTCTCACACGAAGCCGTACATCAGGAAGAAGGCAGTGTGATCATGTACAAAGTATTCCTCAAGTACCCA  
 GAGTCGCTGCGTCTGCCTTTCCCGGGCTTAAGGAGAAGCTGGAGGACCCAGACCCAGGGGTACAGTCTG  
 CGGCTGTTAATGTCATCTGCGAGCTGGCAGCCGCAACCCTAAAACTACCTGTCTCTGGCGCCACTGTT  
 TTTCAAGCTCATGACATCCTCCACCAACAACCTGGGTCTCATCAAGATCATCAAGCTGTTCCGGTGCCTG  
 ACTCCTCTGGAGCCAGGCTGGGCAAGAAGCTGATCGAGCCTCTCACCAACCTCATTACAGCACCTCTG  
 CCATGTCCCTGCTGTACGAGTGTGTGAACCCGTAATTGCTGTGCTCATCTCACTGTCTTCTGGGATGCC  
 CAACCACAGCGCCAGCATCCAGCTATGCGTTTCAAGATTGAGGATACTGATAGAAGACTCCGACCAGAAC  
 TTAAGTACCTGGGGCTGCTGGCCATGTCTAAAATCCTGAAGACACACCCCAAGTCTGTGAGTCCCACA  
 AGGACCTGATCCTGCAGTGCCTGGATGACAAGGACGAGTCCATCCGCTGCGTGCCTTACCTGCTCTA  
 TGGAAATGGTGTCAAGAAGAACCTGATGGAGATTGTGAAGAAGCTCATGACTCACGTGGACAAGGCTGAG  
 GGCACCACCTATCGGATGAAGTCTCACCAAGATCATTGACATCTGTAGCCAGTCCAACCTACCAGCACA  
 TCACCAACTTCGAGTGGTACATCAGCATCCTTGTGGAGCTGACAAGGCTGGAGGGCACCCGCCATGGCCA  
 CCTCATTGCTGCACAGATGCTGGACGTGGCTATCCGGGTCAAGGCCATTGCAAAATTTGCTGTGTCGAG  
 ATGTCCTCACTGCTTACAGTGTCTACCTGGTAGCCAGCAGCACCAACGCAATGGTATCTGTGAGGTGC  
 TCTATGCTGCTGCTGGATCTGCGGGGAGTTCTCAGAGCACCTACAGGGGCCAGCAAACCTGGAGGC  
 CATGCTGCGGCCAAGGTCACCACACTGCCCGCCATATCCAGGCTGTGTATGTGAGAAGCTGGTAAAG



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CTGTACGCGTCCATCCTGCAGCAGAAGGAGCAGGCCGCTGACACTGAGGCTGCACAAGAGGTCACCCAGC  
TACTGGTGGAGCGACTGCCACAGTTTGTGCAGAGCGCCGACCTGGAGGTGCAGGAGCGGGCGTCTTGAT  
CCTGCAGCTGGTCAAGCATGTCCAGAAGCTGCAAGCAAAAGGTGTGCCGGTGGCTGAGGAAGTGAGCGCC  
TTGTTTGTCTGGTGAAGTGAACCTGTGGCCCCAAGGCTCAGAAAAAGTCCCAGTTCCTGAAGGCCTAG  
ACCTGGATGCCTGGATCAATGAGCCACCTTCAGACAGTGAAGTCTGAGGATGAGAAACCAAGGCCATCTT  
CCATGAAGAAGAGCCGAGGCACACTCGGCGCCGGCAGCCTGAGGAGGATGAAGAGGAGCTGGCTCGGCGG  
CGAGAGGCCCGGAAGCAGGAACAAGCCAACAACCCCTTACATCAAGAGCTCCCCATCCCCGCAGAAGC  
GATACCAGGATGCACCAGGTGTGGAACACATTCCTGTGGTACAGATCGACCTCTCAGTGCCTCTGAAAGT  
TCCAGGTATGCCATGTGACAGCAGTATGTGAAGCTGGAGGAGCAGCGGCACACCGGCAGCGGCTGGAG  
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AGGACATTGCCCTGCCAGCGTGTGGACATTACTGAGGAGATGCCAGAGAATGCTTTGCCTAGTGA  
CGAGGATGACAAAGACCCCAATGACCCCTACAGGGCGCTGGACATTGACCTGGATAAACCCCTGGCTGAC  
AGTGAGAAGCTGCCTGTCCAGAAACATAGAAATGCGGAGGCGGTGAAGTCCCAGAGAAGGAGGGTGTGC  
TCGGGGTAGAGAAGAAGCAAGAAGCCCAAGAAGAAGGAGAAGAAGACCAAGAGAGAGAGAGAGAGAA  
GAAGGACAAGAAGGGTGAGGACTTAGACTTCTGGCTGTCCACCACCCACCACCTGCTGCTGCCCCATT  
CCTGCCCGTCCACGGAAGAACTTGCTGCAAGCACTATACCTCCCCTAAGGATGAGTGTGAGGTTCTCA  
AAGGGGAAGAGGAGGACCACGTGGATCATGACCAAGAAAGGAAATCATCCCGGCACAAGAAGAAGAAACA  
CAGAAAGGAGAAGGAGAAGGAGGAGAGGCCACGAGACAAGAAGAAGCTAAGAAGAAGCAGGTGGCACCT  
CTGGAGAATGGTGCAGCAGCAGAGGAGGAGGAGGCCTATCCCGCCATGTCCAGCTACTGCCTTCTGG  
CTGAGAGTCCCTACATTAAGTGAACATATGACATCCAAGCCAGCTTACAGAAGGACAGCCAAGTGAAGTGT  
GTCCATCATCCTGGAGAACCAGAGCAGCAGCTTCTGAAGAACATGGAGCTCAACGTGCTGGACTCTCTC  
AACACCAAGATGACCAGGCCAGAGGGCTCATCGGTACACGACGGTGTGCCCGTGCCTTTCCAAGTCCCTC  
CCGGCGTCTCCAATGAGGCCAGTTTGTGTTACCATTACAGCATCGTATGGCCCAAGCTCAAAGG  
CACACTGTCTTATTGCCAAGGATGATGAAGGAGCCACCCATGAGAAGTTGGACTTCGGCTGCATTTTC  
AGCTGTAGCTCGTACCTGATCACACACCTGCTACAGCGATGCCTTTGCAAAGTTGCTAGAGTCAAGGAG  
ACCTGAGCATGAACTCCATCAAAGTCGATGGCATTAGTATGTCTTTCCAGAATCTTCTGGCAAAGATCTG  
CTTCTACCACCATTTTTCCGTTGTGGAGCGAGTAGACTCCTGTGCCTCCATGTACAGCCGCTCTATCCAG  
GGCCACCATGTCTGCCTGCTGGTGAAGAAGGGCGAGAGCTCCGTGTCAGTAGATGGGAAGTGCAGCGATG  
CCACGTTGCTCAGCAGCCTGCTGGAGGAAATGAAGACCACGTTGGCTCAGTGTGAGTTGCAGTCCAGGA  
TGTGCAACAGACCACAGAAAGATGTGATGCGTCTTACCTCTCCTGTTGTGTGACTGTCTCACACCCAGC  
ATTAATTTAACACCACCGCCTCCACTGTGTGACCCTGAGTCCATGTTGCATCAACTTCTTTTATTAT  
CCTTTATCCGACCTGCACTCCTTTAGCAAGGAAGGCCATCCTGACCCTAGCCAGAAAGGGGCTGCTCCA  
CTTCCCATTCTCAAAGGCGGCTGTGGACTGCAGGGTTACAGCAAACACACTGATGTGGCCCCACTCCTGA  
CCCCATGTCTGCCTCTGGAGGAACCCCTCCAGATGCTGCTGCCACAAATATTCCAAGTGGTAGCCTCTAT  
GGAGAGGTGATAAGGCCAGCTGTTAATGCTTTTCCCACAGCCTGCAAGGTGAGATGGATGAAGTGTCTT  
TGTGGGTGGCTCCGCAGCTCAGCTGCAGACAACAGGGATGGCCCTTTGATTTTCTTCTGTTCAACAGAAC  
TGTGGTCTGTCTGGGGTCTGTGTGGGGTCAAGTGAAGAGTGAATGATGCCTCAGTTTGTACTA  
CACATCATGGGCTTGTCCCTGCAGCTGTGGAGGCTTGTGCTTGCAGTGGAGAGTGTGCATCCTGGGA  
GCAGTCAAGTCTTCCCAGCTGTTCTGGGTAAGGTGAAGAGACATCTAACTGGTGTGCTGGGCACAAGC  
TGAGCCTTCTCAGAGGTGACAGTGGTCTACAGACATTCTGGCTTCTTTGAGGACAAGTGCACCTTAG  
CATGTAGAGTACTCTTACCGACCCCATGTGACCTTCCAGCTCTATGATGTTCCATGATTGATTTGCTGTT  
GACATTCCCATGTGAAGAGAGATATACAGCTGCTGACGATCGGTGTCACAATGACCCATTAAGAGTC  
AAAAACCAA

**Restriction Sites:** Ascl-NotI  
**ACCN:** NM\_007460  
**Insert Size:** 3600 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC053066</a> , <a href="#">AAH53066</a>
<b>RefSeq Size:</b>	4806 bp
<b>RefSeq ORF:</b>	3600 bp
<b>Locus ID:</b>	11776
<b>UniProt ID:</b>	<a href="#">O54774</a>
<b>Cytogenetics:</b>	10 39.72 cM
<b>Gene Summary:</b>	Part of the AP-3 complex, an adaptor-related complex which is not clathrin-associated. The complex is associated with the Golgi region as well as more peripheral structures. It facilitates the budding of vesicles from the Golgi membrane and may be directly involved in trafficking to lysosomes (By similarity). Involved in process of CD8+ T-cell and NK cell degranulation (By similarity). 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 (PubMed:21998198). [UniProtKB/Swiss-Prot Function]