

## Product datasheet for MC206520

### Atp1a3 (BC020177) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Atp1a3 (BC020177) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Atp1a3  
**Synonyms:** MGC27631, MGC38713, MGC38914, MGC39036  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >BC020177

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CCCACGGACCGACAGACGACGCTCCACCGCGGCGGGCGCTGCAGAGCCCCAGCCGAGCCCGG
CCTGAGCCCATCCTGCGGCCACCGCTCATCAGTCTGAACGCCGCTCTCCCGGAGCCGCAAGATGGG
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ACCGCCCACCACCCAGAATGGGTCAAGTCTGCCGCGAGCTGTTTGGTGGCTTCTATCCTGCTGTGG
ATCGGGGCAATCCTTTGCTTCTGGCCTATGGCATCCAGGCAGGACGGAGGATGACCCTCCGGTGACA
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CTGTGATGACGTGAACTTCACCACAGACAACCTTTGCTTTGTGGGTCTCATGTCCATGATTGACCCTCCC
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TCACTGGTGTGGAGGAAGGCCGCTGATCTTTGACAACCTGAAGAAATCCATCGCCTACACTCTGACTAG
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ACCATCCTCTGCATTGACCTGGGTACCGACATGGTCCCTGCAATCTCCCTGGCCTACGAGGCTGCCGAGA
GCGACATCATGAAGAGGCAGCCAGGAACCCACGCACAGACAACTGGTCAACGAAAGGCTCATCAGCAT
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CAGCAGGGCATGAAGAATAAGATCTTGATCTTCGGCTTGTGGAGGACGGCCCTCGCTGCCTTCTGT
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TGTCTGAAAATAGTTTCTCCTTATGATGCTCAGGCTGCCCTTGAGCTCATGTCCCTGAGTTTCTCAGTGC
TGGGATGACAGGCTGCCACCACACCTTGTGTTGTGTCATGTTTCTTTCTGTGCTCCTGTCTCTGTGCT
CATATGGCTCTCGTGTCTGCCTTCTCCTCACTTTGACTCTTCTGTCTTCCAGTGGGTGGAGAAAG
AGACCTACTATTGACCTCAGCCACCACCGTCCGCCGTCTTCCCTACCCCAAGCCAGGACAGCCCT
CTCCGGTCCCCCATTGTACTCTGGGGGAGGGGCCTTCTCTCCCATGGCCCCCTCTCTCCTTGTG
GCCCAGCCTCCTCTCCACACCTCGATTACCTCCACGTTCCCTCACTTCTTCTCTGGCTGGCTTCTCT
CCCCCACAGCCCTGCCTCTCTTCTCCCTCTCTTCTGTGCTCTCCCTCTCTCCCTTGAACCTCT
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TTCTAATTCTGAACAATTATCAATATATCAGTGGGAGAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**Restriction Sites:** EcoRI-NotI

**ACCN:** BC020177

**Insert Size:** 3162 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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|-------------------------------|---|
| <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>                | <u><a href="#">BC020177</a></u> , <u><a href="#">AAH20177</a></u>   |
| <b>RefSeq Size:</b>           | 4043 bp   |
| <b>RefSeq ORF:</b>            | 3162 bp   |
| <b>Locus ID:</b>              | 232975  |
| <b>Cytogenetics:</b>          | 7 13.73 cM  |
| <b>Gene Summary:</b>          | This is the catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of sodium and potassium ions across the plasma membrane. This action creates the electrochemical gradient of sodium and potassium ions, providing the energy for active transport of various nutrients (By similarity).[UniProtKB/Swiss-Prot Function]  |