

Product datasheet for **MC203083**

Atp5b (NM_016774) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atp5b (NM_016774) Mouse Untagged Clone
Tag: Tag Free
Symbol: Atp5b
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >BC046616

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GCCATGTTGAGTCTTGTGGGGCGTGTGGCCTCGGCCCTCGGCCCTCCGGGGCCTTGCGGGGACTCAGCCCTT
CGGCGGCTCTGCCACAGGCGCAGCTTCTACTGCGAGCTGCTCCCGCCGGGGTTCATCCTGCCAGAGACTA
TGC GGCGCAGGCGTCTGCGGCCCGAAGGCAGGCACTGCCACCGGGCGAATCGTGGCAGTATCGGCGCT
GTGGTGGACGTCCAGTTCGATGAGGGATTACCACCCATCCTAAATGCCCTGGAAGTGCAAGGCAGGGACA
GCAGACTGGTTTTGGAGGTGGCCAGCATTGGGGGAGAGCACGGTCAGAACTATTGCTATGGATGGCAC
TGAAGGCTTGGTTAGAGGCCAGAAAGTACTGGATTGAGGGCACCACCAATCAAAATTCCTGTTGGTCTGAG
ACCTTGGGCAGAAATCATGAATGTCATTGGAGAACCTATTGATGAGAGAGGTCCTATCAAAACCAACAAT
TTGCTCCTATTCATGCTGAGGCTCCTGAGTTCATAGAGATGAGTGTGAGCAGGAGATTCTGGTACTGG
GATAAAGGTTGTGGATCTGCTGGCCCCATACGCCAAGGGTGGGAAAATCGGACTCTTTGGAGGTGCTGGC
TGTGGAAAGACAGTACTGATCATGGAGCTAATCAACAATGTCGCCAAAGCCCATGGTGGTTACTCTGTAT
TTGCTGGTGTGGTGGAGGACCCGTGAGGGCAATGATTTATACCATGAAATGATTGAATCTGGTGTAT
CAATCTAAAAGATGCCACTTCCAAGGTAGCGTTGGTATATGGACAGATGAACGAACCCACTGGCGCTCGA
GCCCGGTAGCTCTGACTGGTTTTGACCGTTGCTGAATACTTCAGAGACCAGGAGGGCCAAGATGCTCTGC
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CAACCACCTTTGCCATTTGGATGCTACCACTGTGTTGTCGGGCTATTGCTGAGTTGGGCATCTATCC
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GTCGCCCGAGGAGTGCAGAAAATCCTGCAGGACTACAAATCTCTCCAGGACATCATTGCCATCTTGGGTA
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GCCATTCGAAGTTGCTGAGGTCTTCACGGGTACATGGGGAAGCTGGTGCCTTGAAGGAGACCATTAAA
GGATTCAGCAGATTTTAGCAGGTGAATATGACCATCTCCAGAACAAAGCCTTCTACATGGTGGGACCCA
TTGAAGAAGCCGTGGCAAAGGCTGATAAGCTGGCAGAAGAGCACGGGTCGTGAGGGACTCCAGCCAAAGG
CAGCACTGCAACTGATCTCTCCATATCAAGCGAGAGCTCAGGTTTCTTCCATGCAGGCCACACAAGAGC
CTTGATTGAAGATGTGATGTTCTCTCTGAAGATATTTAAAGTTTTCAATAAAGTATATACCCCTCAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA
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Restriction Sites: RsrII-NotI



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| ACCN: | NM_016774 |
| Insert Size: | 1590 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: | BC046616 , AAH46616 |
| RefSeq Size: | 1778 bp |
| RefSeq ORF: | 1590 bp |
| Locus ID: | 11947 |
| UniProt ID: | P56480 |
| Cytogenetics: | 10 D3 |
| Gene Summary: | Mitochondrial membrane ATP synthase (F(1)F(0) ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain. F-type ATPases consist of two structural domains, F(1) - containing the extramembraneous catalytic core, and F(0) - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F(1) is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Subunits alpha and beta form the catalytic core in F(1). Rotation of the central stalk against the surrounding alpha(3)beta(3) subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits.[UniProtKB/Swiss-Prot Function] |