

Product datasheet for **MC203883**

Atp5a1 (NM_007505) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp5a1 (NM_007505) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atp5a1
Synonyms:	AI035633; AL022851; AL023067; Atpm; D18Ertd206e; Mom2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC014854
 GCTGCGGCTGCAGACGGTCTCTCCGAGAAGCTGCAAGGATGCTGTCTGTGCGCGTCGCCGCGGCCGTGGC
 CCGTGCCCTCCCTCGACGGGCGGGACTGGTCTCCAAAAATGCTTTGGGGTCATCCTTTGTTGGTGAAGA
 AATCTCCATGCCTCTAACACTCGACTTCAGAAGACTGGCACAGCTGAGATGTCTCCATTCTCGAGGAGA
 GGATTCTGGGAGCTGACACGTCTGTTGACCTGGAGGAGACTGGCGTGTGTTAAGCATTGGTGATGGTAT
 TGCGCGAGTGCACGGGCTGAGGAATGTTCAAGCAGAGGAGATGGTGAATTCTCTTCAGGCTTAAAGGGT
 ATGTCCCTGAAC TTGGAACCCGACAATGTTGGAGTTGTCGTGTTTGGGAATGACAAGCTAATTAAGAAG
 GAGACGTTGTGAAGAGGACAGGCCCATCGTGGATGTCCCGTTGGCGAGGAGCTTTGGGCGGTGTTGGT
 TGACGCCCTCGGTAATGCTATTGATGGAAGGGTCCAATTGGTTCCAAGACCCGACAGACGAGTGGGCCTG
 AAAGCCCTGGAATTATCCCCGAATCTCTGTGCGGGAGCCGATGCAGACCCGCATCAAGGCTGTGGATA
 GCCTGGTGCCATTGGCCGGGTGAGCGTGAGCTGATTATTGGTGACAGACAGACTGGGAAAACATCGAT
 TGCCATTGACACAATCATCAACCAGAAACGTTTCAACGATGGGACCGACGAGAAGAAGCTGTACTGC
 ATCTACGTCGCGATTGGTCAGAAGCGGTCCACTGTGGCTCAGCTGGTGAAGAGACTGACGGATGCGGATG
 CCATGAAGTACACCATCGTGGTGTGAGCCACTGCCTCTGACGCTGCCCGCTTCAGTACTGGCTCCCTA
 CTCGGCTGCTCCATGGGAGAGTACTTTAGAGACAACGGCAAGCACGCTTTGATCATCTATGACGATCTA
 TCCAAGCAGGCTGTCGTTACCGCCAGATGTCTCTGTTGCTCCGCGACCCCTGGTCTGAGGCCATC
 CTGGTGATGTGTTCTACCTACACTCCCCTGCTGGAGAGAGCAGCCAAGATGAACGATTCTTTGGTGG
 TGGCTCTTTGACTGCCTTACCAGTCATTGAAACACAGGCTGGTGTGTGTCGCTTACATCCAACAAAT
 GTTATTTCCATCACTGACGGACAGATCTTCTTGGAAACAGAAATTGTTCTATAAAGGCATCCGCCCTGCCA
 TTAATGTGGGTTTGTCTGTGTCGCGTGTGCGATCTGCTGCCCAAACCAGGCCATGAAGCAGGTGGCAGG
 TACCATGAAGCTGGAGTTGGCTCAGTACCGGGAGGTGGCTGCGTTTGGCCAGTTTGGTCTGATTTGGAC
 GCTGCCACTCAACAGCTCTTGAGTCGTGGTGTGCGTCTGACCGAGTTGCTAAAGCAAGGACAGTACTCTC
 CCATGGCTATTGAAGAACAGGTGGCTTATCTATGCGGGTGTACGGGGTTATCTTGACAACTGGAGCC
 CAGCAAGATCACAAAGTTTGAGAATGCTTCTTGTCTCAGGTTATCAGCCAGCACCAGTCCCTCTTGGGC
 AATATCAGGTCTGATGGGAAAATCTCAGAACAGTCAGACGCAAAGCTCAAAGAGATTGTAACAAACTTCT
 TGGCTGGGTTTGAACCATAAAGCCCTGTCACTGTCAACAGATACTGCTTTGGTTTTGTCATTTATTCTGG
 TAAATCAGCACCATTTGTAAGGGTACTCTTGTATTCTGATGTACAGAAATCACATGAATAAAAGTT
 CCATACTGTGTAGTTTGTGTGGGGTGGGCTCAGGTGTGTACCAGGATTTGTGTGGTGGTGCAGGGA
 CAGCCAGCCTGTATGACAGTACCCTCTCCACCGGGAATTTAATGCAGGTTTTTATTTAAAGCAGGACT
 TCATGTTGAGTTCATAAGTTAGTTTTGTAAGACAGAGCTTACTGTGTGACCTCAGCAATGGCTAGCCTA
 GGCTATTCTTGTAGCAGTCTGTCTGCCATAGCTGGCAAATGCTCTCTTACCCTGTCTTGTGCTGGTGCAG
 TCAGCATGGATAGATAATTCAAAGCTGTCCACTATGAAATTCGGAAGTACTTTGTGATTGATTAAGA
 GAACTCTGCTCCGAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_007505

Insert Size: 1662 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:

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: [BC014854](#), [AAH14854](#)

RefSeq Size: 2202 bp

RefSeq ORF: 1662 bp

Locus ID: 11946

UniProt ID: [Q03265](#)

Cytogenetics: 18 52.38 cM

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. Subunit alpha does not bear the catalytic high-affinity ATP-binding sites (By similarity). Binds the bacterial siderophore enterobactin and can promote mitochondrial accumulation of enterobactin-derived iron ions (By similarity).[UniProtKB/Swiss-Prot Function]