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Product datasheet for MC204215

Atp1a1 (NM_144900) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp1a1 (NM_144900) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atp1a1
Synonyms:	Atpa-1; BC010319
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC033435 GCGGCAGCAGCGGCGGCAGCAGCGGCGGCCTCGGTCCGGGGCGCCGGCCGTCCTCCCTCTTTCCTCCCGC GGCAGCCCTAGTTCCCGCCTCTCGGCTCCCCCGGCTCCGCTCTCCCGGCCGGGAGCTGCTCTCTTCTCTT TCTAGTCTCCAGCAACAGGACCCGGCGCGGGGCCCGCAGCGCCGCCACCATGGGGAAGGGGGTTGGACGA GACAAGTATGAGCCTGCCGCTGTATCGGAGCATGGTGACAAAAAGGGCAAAAAGGCCAAGAAGGAAAGGG ATATGGATGAGCTCAAGAAGGAAGTGTCTATGGACGACCATAAACTCAGCCTGGATGAACTCCATCGTAA ATACGGAACAGATTTGAGCCGAGGATTAACACCTGCAAGGGCCGCTGAGATCCTGGCCCGGGATGGCCCC AACGCCCTCACACCCCCTCCCACTACTCCCGAATGGGTGAAATTCTGCCGGCAGCTCTTTGGAGGCTTTT CCATGTTACTGTGGATCGGGGCCATTCTTTGTTTCCTGGCTTATGGCATCCGAAGTGCTACAGAAGAGGA ACCGCCAAACGATGATCTGTACCTCGGGGTGGTGCTCTCTGCTGTAGTCATCATAACTGGCTGTTTCTCC TATTATCAAGAAGCAAAAAGCTCCAAGATCATGGAATCCTTCAAGAACATGGTCCCTCAGCAAGCCCTTG TGATTCGAAATGGAGAGAAAATGAGCATCAATGCGGAGGATGTCGTCGTCGGGGATCTGGTGGAGGTGAA AGGGGGAGACCGGATCCCTGCTGATCTTAGAATCATATCTGCAAACGGCTGCAAGGTGGATAACTCCTCA CTCACTGGTGAATCAGAACCCCAGACTCGGTCCCCGGATTTCACAAACGAGAACCCCTTGGAGACAAGGA ACATTGCCTTCTTCTCAACCAACTGTGTGGAAGGAACCGCACGTGGCATCGTCGTGTACACTGGGGACCG CACCGTGATGGGCAGGATTGCCACGCTTGCCTCTGGGCTAGAAGGTGGCCAGACCCCCATTGCTGAAGAG ATTGAGCATTTCATCCACCTCATCACCGGGGTGGCCGTGTTCCTGGGGGTGTCTTTCTTCATCCTTTCTC TGATCCTTGAGTACACCTGGCTCGAGGCTGTCATCTTCCTCATTGGTATCATCGTAGCCAACGTGCCAGA AGGTCTGCTGGCCACTGTCACGGTCTGTCTGACACTCACTGCCAAGCGCATGGCGAGGAAGAACTGCCTG GTGAAGAACTTGGAAGCTGTGGAGACCTTGGGGTCCACATCTACCATCTGCTCAGACAAGACGGGAACTC TGACTCAGAACCGGATGACAGTGGCCCACATGTGGTTTGACAATCAGATCCATGAAGCTGACACCACGGA GAATCAGAGTGGTGTCTCCTTTGACAAGACGTCAGCCACCTGGTTCGCTCTGTCCAGAATTGCTGGTCTC TGTAACAGGGCAGTGTTTCAGGCTAACCAAGAAAACCTGCCTATTCTTAAGCGGGCAGTAGCGGGAGATG CCTCTGAGTCGGCGCTCTTAAAGTGCATTGAAGTCTGCTGCGGCTCCGTGATGGAGATGAGGGAGAAATA CAGCAAGATAGTGGAGATTCCCTTCAACTCCACCAACAAGTACCAGTTGTCCATTCACAAGAACCCAAAT GCATCTGAGCCCAAACACCTGCTAGTGATGAAGGGCGCCCCAGAAAGGATCCTGGACCGCTGCAGCTCCA TCCTTCTCCACGGCAAGGAGCAGCCACTGGATGAAGAGCTGAAGGACGCTTTTCAGAACGCCTACCTAGA

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GCTGGGGGGCCTTGGAGAACGTGTGCTAGGTTTCTGCCACCTCCTCCTGCCTGACGAACAGTTTCCCGAA
GGCTTCCAGTTTGACACTGACGATGTCAATTTCCCCGTGGATAACCTCTGCTTCGTGGGTCTTATCTCCA
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TGCCACACACTGCACCCACCCCTACCCCCTCTTTGTGTACTTCAAGTCTTGGAGCTCGGAACTCTACCCT
GGTAGGAAAGCACCAAAGCATGTGGGGATGCAGACGTCCTGGAATGAAGCATGTAGCTGTAACGGGGGGC
GGGGCGGGGGGGAGGGCTGCCTGAGAAACACCGTGTACGGGGACGACAGCGGGCAAGGTTTATACGTGCC
TTTTTGTTTTTGTAAAAAAGGAAAACCTGGAAAGACTGAAAGATTACGTTTTATATCTGGATTTTTACAA
ATAAAGATGGCTATTATAACGGAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_144900

Insert Size: 3072 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: BC033435, AAH33435

RefSeq Size: 3608 bp

RefSeq ORF: 3072 bp

Locus ID:	11928
UniProt ID:	Q8VDN2
Cytogenetics:	3 44.3 cM
Gene Summary:	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.[UniProtKB/Swiss-Prot Function]