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Product datasheet for MC222615

Atp2c1 (NM_175025) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp2c1 (NM_175025) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atp2c1
Synonyms:	1700121J11Rik; ATP2C1A; AW061228; BCPM; D930003G21Rik; HHD; pmr1; SPCA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>MC222615 representing NM_175025
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGGTTGCACGATTTCAAAAGATCCCTAATGTTGAAAATGAGACAATGATCCCTGTACTGACGTCAA
AGAGAGCAAGTGAGTTAGCAGTCAGTGAGGTTGCAGGCCTTCTCCAGGCTGATCTTCAGAATGGCTTAAA
CAAATCTGAAGTTAGTCATAGGCGAGCCTTCCATGGTTGGAATGAATTTGATATCAGTGAAGATGAACCA
TTATGGAAGAAGTATATTTCTCAGTTTAAAAATCCCCTTATCATGCTGCTCCTGGCGTCTGCGGTCATCA
GCATTTTAATGCGCCAGTTTGATGATGCCGTCAGTATCACTGTGGCAATAGTAATTGTCGTCACTGTGGC
CTTTGTTCAGGAATATCGTTCAGAAAAATCTCTAGAAGAATTGAGTAAACTTGTGCCACCAGAATGCCAT
TGTGTGCGTGAAGGAAAACTGGAGCATACACTTGCCCGAGACTTGGTTCCAGGTGACACAGTTTGTCTCT
CTGTGGGGGACAGAGTTCCTGCGGACTTACGCTTATTTGAGGCTGTGGATCTTTCTGTGGATGAGTCTAG
CTTGACAGGAGAGACAGCTCCGTGCTCTAAAGTGACAGCCCCTCAGCCAGCTGCTAATGGAGATCTTGCG
TCAAGAAGTAACATCGCCTTCATGGGGACACTGGTCAGATGTGGCAAAGCAAAGGGTATTGTCATTGGAA
CAGGAGAAAATTCTGAATTTGGAGAGGTCTTTAAGATGATGCAGGCAGAAGAAGCACCAAAAACTCCTCT
GCAGAAGAGCATGGACCTCTTAGGCAAGCAGCTGTCCTTTTACTCCTTTGGTATAATAGGTATCATCATG
TTGGTTGGCTGGTTACTAGGAAAAGACATTCTGGAAATGTTCACTATTAGTGTAAGCTTGGCTGTAGCTG
CAATTCCTGAAGGCCTGCCTATTGTGGTCACGGTGACTCTAGCCCTTGGTGTTATGAGAATGGTGAAGAA
AAGGGCTATTGTAAAGAAATTGCCTATTGTGGAAACACTGGGCTGCTGTAATGTGATTTGTTCAGATAAA
ACTGGAACCCTGACGAAGAACGAGATGACTGTTACTCACATCCTCACTTCCGATGGCCTGCATGCTGAGG
TCACTGGAGTTGGCTATAATCAGTTTGGTGAAGTGATCGTTGATGGTGATGTTGTTCATGGATTTTATAA
CCCAGCTGTTAGCAGAATTGTTGAGGCAGGCTGTGTGTGCAATGATGCTGTAATTAGGAACAACACTCTG
ATGGGAAAGCCAACTGAAGGAGCCTTAATCGCTCTTGCTATGAAGATGGGTCTTGATGGACTGCAACAAG
ACTACATCAGGAAAGCTGAATACCCTTTTAGTTCTGAGCAGAAGTGGATGGCTGTTAAGTGTGTGCACCG
AACACAGCAGGACAGACCAGAGATTTGTTTTATGAAGGGTGCTTATGAGCAGGTGATTAAGTATTGTACT
ACATACAACAGCAAAGGGCAGACTTTGGCACTTACCCAGCAGCAGAGAGATTTGTATCAACAAGAGAAGG
CACGGATGGGCTCAGCGGGACTCAGAGTTCTTGCCTTGGCGTCTGGTCCGGAACTGGGGCAGCTGACCTT
CCTTGGCCTGGTCGGAATCATTGACCCTCCTAGAACTGGTGTGAAGGAAGCTGTCACAACACTCATTGCC
TCAGGAGTCTCCATCAAAATGATCACTGGAGATTCTCAGGAGACTGCAATTGCCATCGCTAGTCGTCTGG
GATTGTACTCTAAGACTTCACAGTCCGTGTCTGGGGAAGAAGTCGATACAATGGAGGTGCAGCACCTTTC
ACAGATAGTGCCAAAGGTTGCAGTATTTTACAGAGCAAGCCCAAGACACAAGATGAAAATTATTAAGTCT
CTACAGAAGAACGGGGCAGTTGTAGCCATGACAGGAGATGGGGTAAATGATGCAGTTGCTCTCAAGGCTG
CAGACATTGGAGTTGCGATGGGCCAGACTGGCACCGATGTTTGCAAAGAGGCTGCAGACATGATCTTGGT
GGATGATGATTTCCAAACCATCATGTCTGCAATAGAAGAGGGTAAAGGCATTTATAATAACATTAAAAAT
TTTGTTAGATTTCAACTGAGCACGAGTATAGCAGCATTAACTTTAATCTCATTGGCTACGTTAATGAACT
TTCCTAACCCTCTCAATGCAATGCAGATTTTGTGGATCAATATTATAATGGATGGACCCCCAGCTCAGAG
CCTTGGAGTAGAGCCAGTGGATAAAGATGTCATTCGAAAACCGCCTCGAAACTGGAAGGACAGCATTTTG
ACAAAAAACTTGATACTTAAAATACTTGTTTCATCAATAATCATTGTTTGTGGGACTTTGTTTGTCTTCT
GGCGAGAGCTTCGAGACAATGTGATAACACCCCGAGACACAACCATGACTTTCACTTGCTTTGTGTTTTT
TGACATGTTCAATGCACTGAGTTCCAGATCTCAGACCAAGTCTGTGTTTGAGATTGGACTCTGCAGTAAT
AAGATGTTCTGCTATGCAGTTCTTGGATCCATCATGGGACAGTTGCTTGTCATTTACTTCCCTCCTCTCC
AGAAGGTTTTTCAAACCGAGAGCCTGAGTATACTGGATCTGTTGTTTCTTTTGGGCCTTACCTCGTCAGT
GTGCATTGTGTCTGAGATTATAAAGAAGGTTGAAAGGAGCCGGGAGAAGGTCCAGAAGAATGCTGGTTCA
GCATCATCGTCTTTCCTTGAAGTATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_175025
Insert Size:	2757 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:	NM_175025.4, NP_778190.3
RefSeq Size:	4889 bp
RefSeq ORF:	2757 bp
Locus ID:	235574
UniProt ID:	Q80XR2
Cytogenetics:	9 F1
Gene Summary:	This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the transport of the calcium.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) has a different 5' end which results in the use of an alternate start codon, compared to variant 1. The resulting protein (isoform 2) has a shorter and distinct N-terminus when it is compared to isoform 1. Variants 2 and 3 encode the same protein.