

Product datasheet for **MR231383**

Atp2c1 (NM_001253834) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp2c1 (NM_001253834) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR231383 representing NM_001253834
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGGTTGCACGATTTCAAAGATCCCTAATGTTGAAAATGAGACAATGATCCCTGTACTGACGTC
 AGAGAGCAAGTGAGTTAGCAGTCAGTGAGGTTGCAGGCCTTCTCCAGGCTGATCTTCAGAATGGCTTAAA
 CAAATCTGAAGTTAGTCATAGGCGAGCCTTCCATGGTTGGAATGAATTTGATATCAGTGAAGATGAACCA
 TTATGGAAGAAGTATATTTCTCAGTTTAAAAATCCCTTATCATGCTGCTCCTGGCGTCTGCGGTATCA
 GCATTTTAAATGCGCCAGTTTGTATGATGCCGTGATCACTGTGGCAATAGTAATTGTCGTCAGTGTGGC
 CTTTGTTCAGGAATATCGTTTCAGAAAAATCTCTAGAAGAATTGAGTAACTTGTGCCACCAGAATGCCAT
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 CTTGACAGGAGAGACAGCTCCGTGCTCTAAAGTGACAGCCCTCAGCCAGCTGCTAATGGAGATCTTGCG
 TCAAGAAGTAACATCGCCTTCATGGGGACACTGGTCAGATGTGGCAAAGCAAAGGTATTGTCATTGGAA
 CAGGAGAAAAATTCTGAATTTGGAGAGGCTTTAAGATGATGCAGGCAGAAGAAGCACAAAAACTCCTCT
 GCAGAAGAGCATGGACCTCTTAGGCAAGCAGCTGTCTTTTACTCCTTTGGTATAATAGGTATCATCATG
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 AACACAGCAGGACAGACCAGAGATTTGTTTTATGAAGGGTGTATGAGCAGGTGATTAAGTATTGACT
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 CCTTGGCCTGGTGGAAATCATTGACCTCCTAGAAGTGGTGTGAAGGAAGCTGTCAACACTCATTGCC
 TCAGGAGTCTCCATCAAATGATCACTGGAGATCTCAGGAGACTGCAATTGCCATCGCTAGTCGCTGG
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 ACAAAAAACTTGATACTTAAAAATCTTGTTCATCAATAATCATTGTTTGTGGACTTTGTTGTCTTCT
 GGCGAGAGCTTCGAGACAATGTGATAACACCCCGAGACACAACCATGACTTTCACTTGTCTTGTGTTTT
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 GCATCATCGTCTTCTTGAAGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATTAAGTTTAA

Protein Sequence: >MR231383 representing NM_001253834
 Red=Cloning site Green=Tags(s)

MKVARFQKIPNVENETMIPVLT SKRASELAVSEVAGLLQADLQNLNKSEVSHRRAFHGWNFE DISEDEP
 LWKKYISQFKNPLIMLLASAVISILMRQFDDAVSITVAIVIVVTVAVFQYRSEKSL EELSKLVPPECH
 CVREGKLEHTLARLDVPGDTVCLSVGDRVPADLRLEAVDLSVDESSLTGETAPCSKVTAPQPAANGDLA
 SRSNIAFMGTLVRCGKAKGIVIGTGENSEFGEVFKMMQAE EAPKTP LQKSMDLLGKQLSFYSFGIIGIIM
 LVGWLLGKDILEMFTISVSLAVAAIPEGLPIVVTVT LALGVMRMVKKRAIVK KLP I VETLGC CNVICSDK
 TGTLTKNEMTVTHILTS DGLHAEVTGVGYNQFGEVIVDGDV VHG FYNPAVSRIVEAGCVCNDAVIRNNTL
 MGKPTEGALIALAMKMLDGLQQDYIRKAEYPFSS EQWMAVKCVHRTQQDRPEICFMKGAYEQVIKYCT
 TYNSKGQTLALTQQRDLYQEKARMGSAGLRVLALASGP ELGQLTFLGLVGIIDPPRTGVKEAVTTLIA
 SGVSIKMITGDSQETAIAIASRLGLYSKTSQSVSGEEVD TMEVQHL SQIVPKVAVFYRASPRHKMKI IKS
 LQKNGAVVAMTGDGVNDAVALKAADIGVAMGQTGTDVCKEAADMILVDDDFQTIMSAIEEGKGIYNNIKN
 FVRFLST SIAALTLISLATLMNFPNPLNAMQILWINIIMDGPPA QSLGVEPVKDQVIRKPPRNWKDSIL
 TKNLILKILVSSIIIVCGTLFVFWREL RDNVITPRD TTTMFTCFVFFDMFNALSSRSQTKSVFEIGLCSN
 KMF CYAVLGSIMGQLLVIYFPPLQKVFQTESLSILDLLFLLGLTSSVCIVSEI IKKVERSREKVQKNAGS
 ASSSFLEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

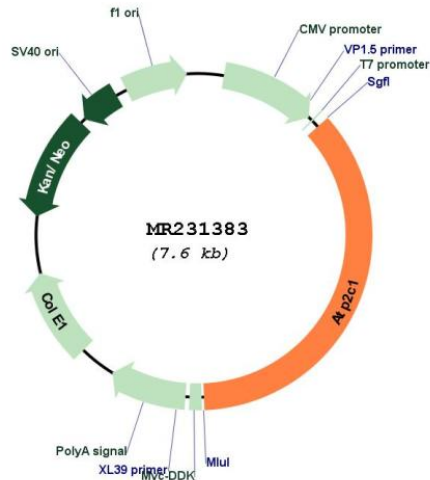
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001253834

ORF Size: 2754 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001253834.1](#), [NP_001240763.1](#)

RefSeq Size: 4774 bp

RefSeq ORF: 2757 bp

Locus ID: 235574

UniProt ID: [Q80XR2](#)

Cytogenetics: 9 F1

MW: 100.7 kDa

Gene Summary: This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the transport of the calcium.[UniProtKB/Swiss-Prot Function]