

## Product datasheet for **MR230836**

### **Atp2c1 (NM\_001253836) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Atp2c1 (NM_001253836) 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:

>MR230836 representing NM\_001253836  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGATCCCTGTAAGTACGCTCAAGAGAGCAAGTGAAGTACGAGTACGAGTTCAGGCTTCCAGG  
CTGATCTTCAGAAATGGCTTAAACAAATCTGAAGTTAGTCATAGGCGAGCCTTCCATGGTTGGAATGAATT  
TGATATCAGTGAAGATGAACCATTATGGAAGAAGTATATTTCTCAGTTTAAAAATCCCTTATCATGCTG  
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CAAGATGAAAATTATTAAGTCTCTACAGAAGAACGGGGCAGTTGTAGCCATGACAGGAGATGGGGTAAAT  
GATGCAGTTGCTCTCAAGGCTGCAGACATTGGAGTTGCGATGGGCCAGACTGGCACCGATGTTTGCAAAG  
AGGCTGCAGACATGATCTTGGTGGATGATGATTTCCAAACCATCATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR230836 representing NM\_001253836  
 Red=Cloning site Green=Tags(s)

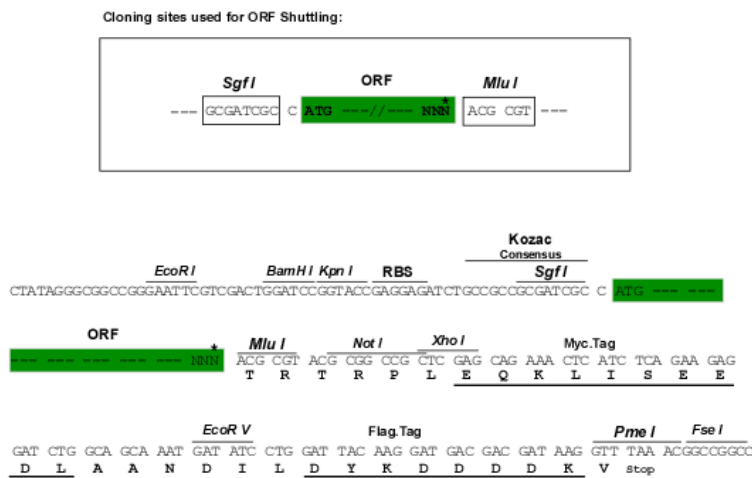
MIPVLTSKRASELAVSEVAGLLQADLQNLNKSEVSHRRAFHGWNEFDISEDEPLWKYISQFKNPLIML  
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 SDGLHAEVTGVGYNQFGEVIVDGDVVHGFYNPAVSRIVEAGCVCNDAVIRNNTLMGKPTEGALIALAMKM  
 GLDGLQQDYIRKAEYFSSQKWMVAVKCVHRTQQDRPEICFMKGAYEQVIKYCTTYNSKGQTLALTQQQR  
 DLYQQEKARMGSAGLRVLAASGPELGQLTFLGLVGIIDPPRTGVKEAVTTLIASGVSIMKITGDSQETA  
 IAIASRLGLYSKTSQSVSGEEVDMEVQHL SQIVPKVAVFYRASPRHKMKI I KSLQKNGAVVAMTGDGVN  
 DAVALKAADIGVAMGQTGTDVCKEADMILVDDDFQTIM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

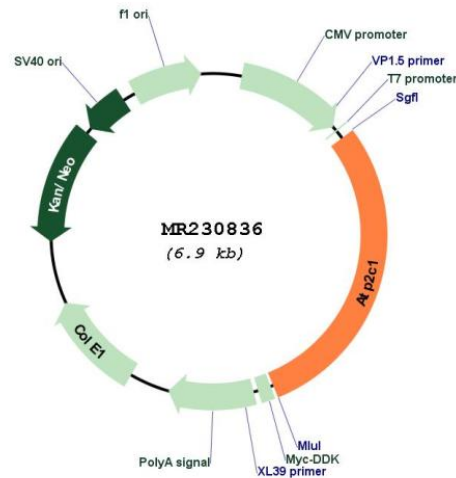
SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

## Plasmid Map:



ACCN: NM\_001253836

ORF Size: 2007 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\\_001253836.1](#), [NP\\_001240765.1](#)

RefSeq Size: 2482 bp

RefSeq ORF: 2010 bp

Locus ID: 235574

Cytogenetics: 9 F1

MW: 72.8 kDa

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