

Product datasheet for **MG218228**

Atp2c1 (NM_175025) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp2c1 (NM_175025) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atp2c1
Synonyms:	1700121J11Rik; ATP2C1A; AW061228; BCPM; D930003G21Rik; HHD; pmr1; SPCA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218228 representing NM_175025
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGGTTGCACGATTTCAAAGATCCCTAATGTTGAAAATGAGACAATGATCCCTGTACTGACGTC
 AGAGAGCAAGTGAGTTAGCAGTCAGTGAGGTTGCAGGCCTTCTCCAGGCTGATCTTCAGAATGGCTTAAA
 CAAATCTGAAGTTAGTCATAGGCGAGCCTTCCATGGTTGGAATGAATTTGATATCAGTGAAGATGAACCA
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 GCATTTTAAATGCGCCAGTTTGTATGATGCCGTGATCACTGTGGCAATAGTAATGTGCTCACTGTGGC
 CTTTGTTCAGGAATATCGTTTCAAAAAATCTCTAGAAGAATTGAGTAACTTGTGCCACCAGAATGCCAT
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 CTTGACAGGAGAGACAGCTCCGTGCTCTAAAGTGACAGCCCTCAGCCAGCTGCTAATGGAGATCTTGCG
 TCAAGAAGTAACATCGCCTTCATGGGGACTGGTCAGATGTGGCAAAGCAAAGGTATTGTCATTGGAA
 CAGGAGAAAATTCTGAATTTGGAGAGGCTTTAAGATGATGCAGGCAGAAGAAGCACAAAAACTCCTCT
 GCAGAAGAGCATGGACCTCTTAGGCAAGCAGCTGTCTTTTACTCCTTTGGTATAATAGGTATCATCATG
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 ACTGGAACCTGACGAAGAACGAGATGACTGTTACTCACATCCTCACTCCGATGGCCTGCATGCTGAGG
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 CCTTGGCCTGGTGGAAATCATTGACCCTCTAGAAGTGGTGTGAAGGAAGCTGTCAACACTCATTGCC
 TCAGGAGTCTCCATCAAATGATCACTGGAGATCTCAGGAGACTGCAATTGCCATCGCTAGTCGTCTGG
 GATTGACTCTAAGACTTACAGTCCGTGTCTGGGGAAGAAGTCGATACAATGGAGGTGCAGCACCTTTC
 ACAGATAGTGCCAAAGGTTGAGTATTTACAGAGCAAGCCCAAGACACAAGATGAAAATTTAAGTCT
 CTACAGAAGAACGGGCGAGTTGTAGCCATGACAGGAGATGGGGTAAATGATGCAGTTGCTCTCAAGGCTG
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 ACAAAAAACTTGATACTTAAAAATCTTGTTCATCAATAATCATTGTTTGTGGACTTTGTTTGTCTTCT
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 AGAAGGTTTTTCAAACCGAGAGCCTGAGTATACTGGATCTGTTGTTTCTTTTGGGCTTACCTCGTCAGT
 GTGCATTGTGCTGAGATTATAAAGAAGGTTGAAAGGAGCCGGGAGAAGTCCAGAAGAATGCTGGTTCA
 GCATCATGCTTTTCTTGAAGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG218228 representing NM_175025
Red=Cloning site Green=Tags(s)

MKVARFQKIPNVENETMIPVLTSKRASELAVSEVAGLLQADLQNLNKSEVSHRRAFHGWNFEFDISEDEP
 LWKKYISQFKNPLIMLLASAVISILMRQFDDAVSITVAIVIVVTVAQVQYRSEKSLLEELSKLVPPECH
 CVREGKLEHTLARDLVPDGTVCLSVGDVPAADLRLEAVDLSVDESSLTGETAPCSKVTAPQPAANGDLA
 SRSNIAFMGTLVRCGKAKGIVIGTGENSEFGEVFKMMQAEAEAPKTPLQKSMDDLKQLSFYSFGIIGIIM
 LVGWLLGKDILEMFTISVSLAVAAIPEGLPIVVTVTLALGVMRMVKKRAIVKKLPIVETLGCNVCSDK
 TGTLTKNEMTVTHILTSDFLHAEVTVGVYVQFGEVIVDGDVHGFYNPVAVSRIVEAGCVCNDAVIRNNTL
 MGKPTGALIALAMKMGDLGLQDYIRKAEYFSSSEQWMAVKCVHRTQQDRPEICFMKGAYEQVIKYCT
 TYNSKGQTLALTQQQDLYQEQKARMGSAGLRVLAALASGPELQQLTFLGLVGIIDPPRTGVKEAVTTLIA
 SGVSIKMITGDSQETAIAIASRLGLYSKTSQSVSGEVDTMEVQHLQVIVPKVAVFYRASPRHKMKIIS
 LQKNGAVVAMTGDGVNDAVALKAADIGVAMQGTGTDVCKEADMILVDDDFQTIMSAIEEGKIYNNIKN
 FVRFLSTIAALTLISLATLMNFPNPLNAMQILWINIIMDGPPAQLGVEPVKDVIRKPPRNWKSIL
 TKNLILKILVSSIIIVCGTLFVFWREL RDNVITPRD TTTFTCFVFFDMFNALSSRSQTKSVFEIGLCSN
 KMFYAVLGSIMGQLLVIYFPPLQKVFQTESLSILDLLFLLGLTSSVCIVSEI IKKVERSREKVQKNAGS
 ASSSFLEV

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

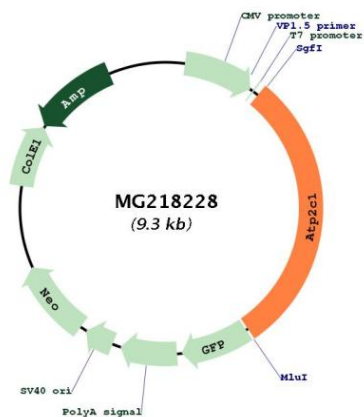


ACCN:

NM_175025

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:	<ol style="list-style-type: none">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]

Product images:



Circular map for MG218228