

Product datasheet for **RC214896**

ATP2C1 (NM_014382) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP2C1 (NM_014382) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATP2C1
Synonyms:	ATP2C1A; BCPM; HHD; hSPCA1; PMR1; SPCA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC214896 representing NM_014382
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGGTTGCACGTTTTCAAAAAATACCTAATGGTGAAAATGAGACAATGATTCCTGTATTGACATCAA
 AAAAAAGCAAGTGAATTACCAAGTCAGTGAAGTTGCAAGCATTCTCCAAGCTGATCTTCAGAATGGTCTAAA
 CAAATGTGAAGTTAGTCATAGGCGAGCCTTTCATGGCTGGAATGAGTTTGATATTAGTGAAGATGAGCCA
 CTGTGGAAGAAGTATATTTCTCAGTTTAAAAATCCCTTATTATGCTGCTTCTGGCTTCTGCAGTCATCA
 GTGTTTTAATGCATCAGTTTGTATGATGCCGTGAGTACTGTTGGAATACTTATCGTTGTTACAGTTGC
 CTTTGTTCAGGAATATCGTTTCAGAAAAATCTCTGAAGAATTGAGTAACTTGTGCCACCAGAATGCCAT
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 CTGTTGGGATAGAGTTCTGCTGACTTACGCTTGTGGAGGCTGTGGATCTTCCATTGATGAGTCCAG
 CTTGACAGGTGAGACAACGCCTTGTCTAAGGTGACAGCTCCTCAGCCAGCTGCAACTAATGGAGATCTT
 GCATCGAGAAGTAACATTGCCTTTATGGGAACACTGGTCAGATGTGGCAAAGCAAAGGGTGTGTCATTG
 GAACAGGAGAAAAATTCTGAATTTGGGGAGGTTTTTAAAAATGATGCAAGCAGAAGAGGCCACAAAAACCC
 TCTGCAGAAGAGCATGGACCTCTTAGGAAAAACACTTTCCTTTACTCCTTTGGTATAATAGGAATCATC
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 AGGTTACTGGAGTTGGCTATAATCAATTTGGGGAAGTATTGTTGATGGTGTGTTTTCATGCTGCTA
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 CTAATGGGGAAGCCAACAGAAGGGCCCTTAATTGCTCTTGAATGAAGATGGGTCTTGTGACTTCAAC
 AAGACTACATCAGAAAAGCTGAATACCCTTTAGCTCTGAGCAAAAGTGGATGGCTGTTAAGTGTGTACA
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 AGTGTGCATAGTGCAGAAATTATAAGAAGGTTGAAAGGAGCAGGAAAAGATCCAGAAGCATGTTAGT
 TCGACATCATCATTTTTCTTGAAGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATTAAGTTTAA

Protein Sequence: >RC214896 representing NM_014382
 Red=Cloning site Green=Tags(s)

MKVARFQKIPNGENETMIPVLTSSKASELPVSEVASILQADLQNLKCEVSHRRAFHGWNFEFDISEDEP
 LWKKYISQFKNPLIMLLASAVISVLMHQFDDAVSITVAIILIVTVAFVQEQYRSEKSLLEELSKLVPPECH
 CVREGKLEHTLARDLVPGDTVCLSVGDRVPADLRLEAVDLSIDESSLTGETTPCSKVTAPQPAATNGDL
 ASRSNIAFMGTLVRCGKAKGVVIGTGENSEFGEVFKMMQAEAPKTPKQSMDDLKQQLSFYSFGIIGII
 MLVGVLLGKDILEMFTISVSLAVAAIPEGLPIVVTVTLALGVMRMVKRAIVKKLPIVETLGCNCVICSD
 KTGTLTKNEMTVTHIFTS DGLHAEVTGVGYNQFGEVIVDGDVVHGFYNPAVSRIVEAGCVNCDAVIRNNT
 LMGKPTGEGALIALAMKMGDLGLQQDYIRKAEYFPFSSEQKWMVAVKCVHRTQQDRPEICFMKGAYEQVIKYC
 TTYQSKGQTLTLTQQQRDVYQEQEKARMGSAGLRVLAALASGPELGQLTFLGLVGIIDPRTGVKEAVTTLI
 ASGVSIIKMITGDSQETAVAIASRLGLYSKTSQSVSGEEIDAMDVQQLSQIVPKVAVFYRASPRHKMKIIEK
 SLQKNGSVVAMTGDGVNDAVALKAADIGVAMGQTGTDVCKEADMILVDDDFQTMSAIEEGKGIYNNIK
 NFVRFQLSTIAALTLISLATLMNFPNPLNAMQILWINIIMDGPPAQLSGVEPVDKDVIRKPPRNWKDSI
 LTKNLILKILVSSIIIVCGTLFVFWREL RDNVITPRD TMTFTCFVFFDMFNALSSRSQTKSVFEIGLCS
 NRMFCYAVLGSIMGQLLVIYFPPLQKVFQTESLSILDLLFLLGLTSSVCIVAEIIEKVERSREKIQKHVS
 STSSSFLEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

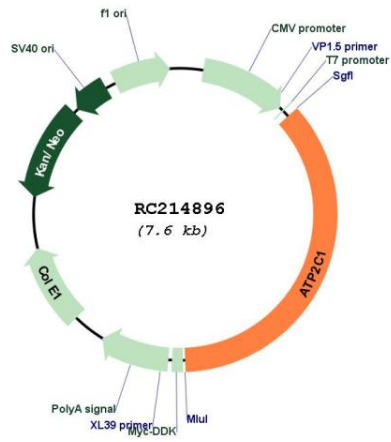


ACCN: NM_014382

ORF Size: 2757 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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_014382.4
RefSeq Size:	4964 bp
RefSeq ORF:	2760 bp
Locus ID:	27032
UniProt ID:	P98194
Cytogenetics:	3q22.1
Domains:	E1-E2_ATPase, Cation_ATPase_N, Hydrolase, Cation_ATPase_C
Protein Families:	Druggable Genome, Transmembrane
MW:	100.6 kDa
Gene Summary:	<p>The protein encoded by this gene belongs to the family of P-type cation transport ATPases. This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the transport of calcium ions. Defects in this gene cause Hailey-Hailey disease, an autosomal dominant disorder. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2011]</p>

Product images:



Circular map for RC214896