

Product datasheet for **RC206997**

ATP2C1 (NM_001001485) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP2C1 (NM_001001485) 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:

>RC206997 representing NM_001001485
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGGTTGCACGTTTTCAAAAAATACCTAATGGTGAAAATGAGACAATGATTCCTGTATTGACATCAA
 AAAAAGCAAGTGAATTACCAAGTCAGTGAAGTTGCAAGCATTCTCCAAGCTGATCTTCAGAATGGTCTAAA
 CAAATGTGAAGTTAGTCATAGGCGAGCCTTTCATGGCTGGAATGAGTTTGATATTAGTGAAGATGAGCCA
 CTGTGGAAGAAGTATATTTCTCAGTTTAAAAATCCCTTATTATGCTGCTTCTGGCTTCTGCAGTCATCA
 GTGTTTTAATGCATCAGTTTGTATGATGCCGTGAGTACTGTTGGAATACTTATCGTTGTTACAGTTGC
 CTTTGTTCAGGAATATCGTTTCAGAAAAATCTCTGAAGAATTGAGTAACTTGTGCCACCAGAATGCCAT
 TGTGTGCGTGAAGGAAAATTGGAGCATACTTGGCCGAGACTTGGTCCAGGTGATACAGTTTGCCTTT
 CTGTTGGGATAGAGTTCTGCTGACTTACGCTTGTGGAGGCTGTGGATCTTCCATTGATGAGTCCAG
 CTTGACAGGTGAGACAACGCCTTGTCTAAGGTGACAGCTCCTCAGCCAGCTGCAACTAATGGAGATCTT
 GCATCGAGAAGTAACATTGCCTTTATGGGAACACTGGTCAGATGTGGCAAAGCAAAGGGTGTGTCATTG
 GAACAGGAGAAAAATTCTGAATTTGGGGAGGTTTTTAAAAATGATGCAAGCAGAAGAGGCCACAAAAACCC
 TCTGCAGAAGAGCATGGACCTCTTAGGAAAAACACTTTCCTTTTACTCCTTTGGTATAATAGGAATCATC
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 TAACCCAGCTGTTAGCAGAATTGTTGAGGCGGGCTGTGTGTGCAATGATGCTGTAATTAGAAACAATACT
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 AAGACTACATCAGAAAAGCTGAATACCCTTTAGCTCTGAGCAAAAGTGGATGGCTGTTAAGTGTGTACA
 CCGAACACAGCAGGACAGACCAGAGATTTGTTTTATGAAAGGTGCTTACGAACAAGTAATTAAGTACTGT
 ACTACATACCAGAGCAAAGGGCAGACCTTACACTTACTCAGCAGCAGAGAGATGTGTACCAACAAGAGA
 AGGCACGCATGGGCTCAGCGGGACTCAGAGTCTTGTCTTGGCTTCTGGTCTGAACTGGGACAGCTGAC
 ATTTCTTGGCTTGGTGGGAATCATTGATCCACCTAGAAGTGGTGTGAAAGAAGCTGTTACAACACTCATT
 GCCTCAGGAGTATCAATAAAAAATGATTACTGGAGATTCACAGGAGACTGCAGTTGCAATCGCCAGTCGTC
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 TCGCTACAGAAGAACGGTTCAGTTGTAGCCATGACAGGAGATGGAGTAAATGATGCAATGCTCTGAAGG
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 TTGACTAAAAACTTGATACTTAAAAACTTGTTCATCAATAATCATTGTTTGTGGGACTTTGTTTGTCT
 TCTGGCGTGAGCTACGAGACAATGTGATTACACCTCGAGACACAACAATGACCTTACATGCTTTGTGTT
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 TTCAGAAGGTTTTTCAGACTGAGAGCCTAAGCATACTGGGTCTGGCTCTGGGAGAGGAGTGGACAGCAGC
 TGGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC206997 representing NM_001001485
 Red=Cloning site Green=Tags(s)

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MKVARFQKIPNGENETMIPVLTSSKASELPVSEVASILQADLQNLNKCEVSHRRAFHGWNFEFDISEDEP
LWKYYSIQFKNPLIMLLASAVISVLMHQFDDAVSITVAIIIVTVAFVQEQYRSEKSLLEELSKLVPPECH
CVREGKLEHTLARLDLVPGDVTVCLSVGDRVPADLRLFEAVDLSIDESSLTGETTPCSKVTPAQPAATNGDL
ASRSNIAFMGTLVRCGKAKGVVIGTGENSEFGEVFKMMQAEAPKTPKQKSMDDLKQLSFYSFGIIGII
MLVGVLLGKDILEMFTTISVSLAVAAIPEGLPIVVTVTLALGVMRMVKKRAIVKKLPVETLGCNVICSD
KTGTLTKNEMTVTHIFTS DGLHAEVTGVGYNQFGEVIVDGDVVHGFYNPAVSRIVEAGVCNDAVIRNNT
LMGKPTGEGALIALAMKMGDLGLQDDYIRKAEYPFSSSEQKWMVAVKCVHRTQQRPEICFMKGAYEQVIKYC
TTYQSKGQTLTLTQQQRDVYQEQEKARMSAGLRVLAALASGPELGQLTFLGLVGIIDPRTGVKEAVTTLI
ASGVSIMKITGDSQETAVAIASRLGLYSKTSQSVSGEEIDAMDVQQLSQIVPKVAVFYRASPRHKMKI IK
SLQKNGSVVAMTGDGVNDAVALKAADIGVAMGQTGTDVCKEADMILVDDDFQTMSAIEEGKGIYNNIK
NFVRFQLSTIAALTLISLATLMNFPNPLNAMQILWINIIMDGPPAQLSGVEPVKDVIRKPPRNWKDSI
LTKNLILKILVSSIIIVCGTLFVFWREL RDNVITPRD TMTFTCFVFFDMFNALSSRSQTKSVFEIGLCS
NRMFCYAVLGSIMGQLLVIFPPLQKVFQTESLSILGLALGEEWTAAG
  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8079_f03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

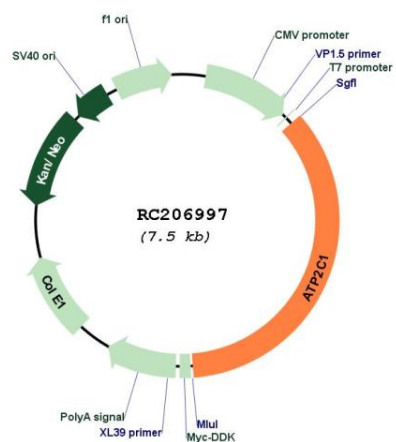


* The last codon before the Stop codon of the ORF

ACCN: NM_001001485

ORF Size:	2664 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:	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_001001485.2
RefSeq Size:	3389 bp
RefSeq ORF:	2667 bp
Locus ID:	27032
UniProt ID:	P98194
Cytogenetics:	3q22.1
Protein Families:	Druggable Genome, Transmembrane
MW:	96.8 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 RC206997