

Product datasheet for **RC233164**

ATP2C1 (NM_001199184) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP2C1 (NM_001199184) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATP2C1
Synonyms:	ATP2C1A; BCPM; HHD; hSPCA1; PMR1; SPCA1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide
Sequence:**

>RC233164 representing NM_001199184
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATTCTGTATTGACATCAAAAAAGCAAGTGAATTACCAGTCAGTGAAGTTGCAAGCATTCTCCAAG
 CTGATCTTCAGAATGGTCTAAACAAATGTGAAGTTAGTCATAGGGCAGCCTTTCATGGCTGGAATGAGTT
 TGATATTAGTGAAGATGAGCCACTGTGGAAGAAGTATATTTCTCAGTTTAAAAATCCCTTATTATGCTG
 CTTCTGGCTTCTGCAGTCATCAGTGTTTAATGCATCAGTTTGTATGATGCCGTGAGTATCACTGTGGCAA
 TACTTATCGTTGTACAGTTGCCTTTGTTCCAGGAATATCGTTCCAGAAAAATCTCTGAAGAATTGAGTAA
 ACTTGTGCCACCAGAATGCCATTGTGTGCGTGAAGGAAAATTGGAGCATAACACTTGGCCGAGACTTGGTT
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 CAGAAGAGGCACCAAAAACCCCTCTGCAGAAGAGCATGGACCTCTTAGGAAAACAACCTTCTTTTACTC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC233164 representing NM_001199184
Red=Cloning site Green=Tags(s)

MIPVLTSKKASELPVSEVASILQADLQNLNKCEVSHRRAFHGWNFEFIDISEDEPLWKYISQFKNPLIML
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 PGDTVCLSVGDRVPADLRLFEAVDLSIDESSLTGETTPCSKVTAPOAATNGDLASRSNIAFMGTLVRCG
 KAKGVVIGTGENSEFGEVFKMMQAEAPKTPKQSMDDLKQLSFYSFGIIGIIMLVGWLKGDILEMFT
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 NDAVALKAADIGVAMGQTGTDVCKEADMILVDDDFQTIMSAIEEGKGIYNNIKNFVRFQLSTIAALT
 ISLATLMNFPNPLNAMQILWINIIMDGPPAQSLGVEPVKDVIRKPPRNWKSILTKNLILKILVSSII
 VCGTLFVFWRELVDNVIIPRDTTMTFTCFVFFDMFNALSSRSQTKSVFEIGLCSNRMFCYAVLGSIMGQL
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

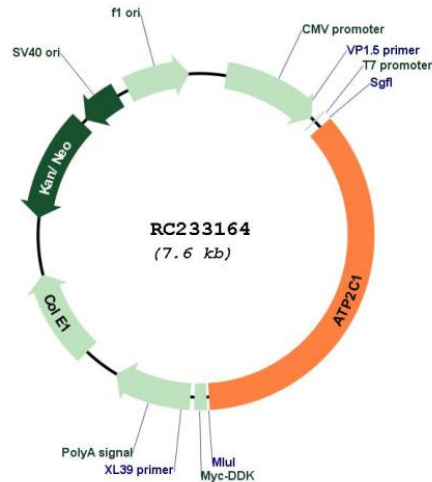
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001199184

ORF Size: 2709 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_001199184.2](#)

RefSeq Size: 4913 bp

RefSeq ORF: 2712 bp

Locus ID: 27032

UniProt ID: [P98194](#)

Cytogenetics: 3q22.1

Protein Families: Druggable Genome, Transmembrane

MW: 99.2 kDa

Gene Summary: 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]