

## Product datasheet for **SC329488**

### ATP2C1 (NM\_001199179) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATP2C1 (NM_001199179) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP2C1
Synonyms:	ATP2C1A; BCPM; HHD; hSPCA1; PMR1; SPCA1
Vector:	pCMV6-Entry (PS100001)

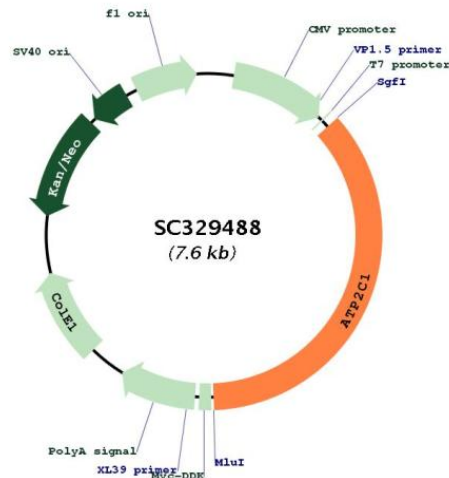


[View online »](#)

**Fully Sequenced ORF:** >SC329488 representing NM\_001199179.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGAAGTTGCACGTTTTCAAAAAATACCTAATGGTGAAAATGAGACAATGATTCCTGTATTGACATCA  
 AAAAAAGCAAGTGAATTACCAGTCAGTGAAGTTGCAAGCATTCTCAAGCTGATCTTCAGAATGGTCTA  
 AACAAATGTGAAGTTAGTCATAGGCGAGCCTTTTCATGGCTGGAATGAGTTTGATATTAGTGAAGTGA  
 CCAGTGTGGAAGAAGTATATTTCTCAGTTTAAAAATCCCCTTATTATGCTGCTTGGCTTCTGCAGTC  
 ATCAGTGTTTAATGCATCAGTTTGATGATGCCGTGAGTACACTGTGGCAATACTTATCGTTGTTACA  
 GTTGCCTTTGTTGAGGAATATCGTTTCAGAAAAATCCTTGAAGAATTGAGTAAACTTGTGCCACCGAAA  
 TGCCATTGTGCGTGAAGGAAAATTGGAGCATACACTTGCCCGAGACTTGGTCCAGGTGATACAGTT  
 TGCCTTTCTGTTGGGATAGAGTTCCTGCTGACTTACGCTTGTGGAGGCTGTGGATCTTCCATTGAT  
 GAGTCCAGCTTGACAGGTGAGACAACGCCTTGTCTAAGGTGACAGCTCCTCAGCCAGCTGCAACTAAT  
 GGAGATCTTGCATCGAGAAGTAACATTGCCTTTATGGAACTGGTGTGATGTGGCAAAGCAAAGGGT  
 GTTGTCTTGAACAGGAGAAAAATCTGAATTTGGGGAGGTTTTTAAAAATGATGCAAGCAGAAGAGGCA  
 CAAAAACCCCTCTGCAGAAGAGCATGGACCTTTAGGAAAACAACCTTCTTTTACTCCTTTGGTATA  
 ATAGGAATCATCATGTTGGTTGGCTGGTACTGGGAAAAGATATCCTGGAAATGTTTACTATTAGTGTA  
 AGTTTGGCTGTAGCAGCAATTCCTGAAGGTCTCCCAATTGTGGTACAGTGACGCTAGCTCTTGGTGT  
 ATGAGAATGGTGAAGAAAAGGGCCATTGTGAAAAGCTGCCTATTGTTGAAACTCTGGGCTGCTGTAAT  
 GTGATTTGTTTCAGATAAACTGGAACACTGACGAAGAATGAAATGACTGTTACTCACATATTTACTTCA  
 GATGGTCTGCATGCTGAGGTTACTGGAGTTGGCTATAATCAATTTGGGAAAGTATTGTTGATGGTGT  
 GTTGTTCATGGATTCTATAACCCAGCTGTAGCAGAATTGTTGAGCGGGCTGTGTGTGCAATGATGCT  
 GTAATTAGAAACAATACTCTAATGGGGAAGCCAACAGAAGGGGCCTAATTGCTCTTGAATGAAGATG  
 GGTCTTGTGACTTCAACAAGACTACATCAGAAAAGCTGAATACCCCTTTAGCTCTGAGCAAAAAGTGG  
 ATGGCTGTTAAGTGTGTACACCGAACACAGCAGGACAGACCAGAGATTTGTTTTATGAAAGGTGCTTAC  
 GAACAAGTAATTAAGTACTGTACTACATACCAGAGCAAAGGGCAGACCTTGACACTTACTCAGCAGCAG  
 AGAGATGTGTACCAACAAGAGAAGGCACGCATGGGCTCAGCGGGACTCAGAGTCTTGTCTTGGCTTCT  
 GGTCTGAACTGGGACAGCTGACATTTCTGGCTTGGTGGGAATCATTGATCCACCTAGAAGTGGTGTG  
 AAAGAAGCTGTTACAACACTCATTGCCTCAGGAGTATCAATAAAAATGATTACTGGAGATTCACAGGAG  
 ACTGCAGTTGCAATCGCCAGTCGCTGGGATTGTATTCCAAAACCTCCAGTCAGTCTCAGGAGAAGAA  
 ATAGATGCAATGGATGTTTCAGCAGCTTTCAAAAATAGTACCAAAGGTTGCAGTATTTACAGAGCTAGC  
 CCAAGGCACAAGATGAAAATTATTAAGTCGCTACAGAAGAACGGTTCAGTTGTAGCCATGACAGGAGAT  
 GGAGTAAATGATGCAAGTCTGCTGAAGGCTGCAGACATTGGAGTTGCGATGGGCCAGACTGGTACAGAT  
 GTTTGCAAAGAGGCAGCAGACATGATCCTAGTGGATGATGATTTTCAAACCATAATGTCTGCAATCGAA  
 GAGGGTAAAGGGATTTATAATAACATTAATAATTTTCGTTAGATTCAGCTGAGCAGCAGTATAGCAGCA  
 TTAACCTTAATCTCATTGGCTACATTAATGAACTTTCTAATCCTCTCAATGCCATGCGAGATTTGTGG  
 ATCAATATTATTATGGATGGACCCAGCTCAGAGCCTTGGAGTGAACCAAGTGGATAAAGATGTCATT  
 CGTAAACCTCCTCGAACTGGAAGACAGCATTGTTGACTAAAACTTGATACTTAAAATACTTGTTC  
 TCAATAATCATTGTTGTGGGACTTTGTTGTCTTCTGGCGTGAGCTACGAGACAATGTGATTACACCT  
 CGAGACACAACAATGACCTTACATGCTTTGTGTTTTTTGACATGTTCAATGCACTAAGTCCAGATCC  
 CAGACCAAGTCTGTGTTGAGATTGGACTCTGCAGTAATAGAATGTTTTGCTATGCAGTCTTGGATCC  
 ATCATGGGACAATTAAGTATTACTTTCTCCGCTTTCAGAAAGTTTTTCAGACTGAGAGCCTAAGC  
 ATACTGGATCTGTTGTTTCTTTGGGTCTCACCTCATCAGTGTGCATAGTGGCAGAAATTATAAAGAAG  
 GTTGAAAGGAGCAGGAAAAGATCCAGAAGCATGTTAGTTCGACATCATCATCTTTTCTGAAGTATGA

**Restriction Sites:** SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_001199179

**Insert Size:** 2760 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001199179.1](#)

**RefSeq Size:** 5051 bp

**RefSeq ORF:** 2760 bp

**Locus ID:** 27032

**UniProt ID:** [P98194](#)

**Cytogenetics:** 3q22.1

**Protein Families:** Druggable Genome, Transmembrane

**MW:** 100.6 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]

Transcript Variant: This variant (5) has an alternate 5' sequence, lacks the 3' exon and contains an alternate 3' segment, as compared to variant 6. The resulting isoform (1a) has shorter and distinct N- and C-termini, as compared to isoform 2a. Variants 1 and 5 encode the same isoform 1a.