

Product datasheet for **SC115025**

ATP2C1 (NM_014382) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | ATP2C1 (NM_014382) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | ATP2C1 |
| Synonyms: | ATP2C1A; BCPM; HHD; hSPCA1; PMR1; SPCA1 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >OriGene ORF within SC115025 sequence for NM_014382 edited (data generated by NextGen Sequencing)

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ATGAAGGTTGCACGTTTTCAAAAAATACCTAATGGTGAAAATGAGACAATGATTCCTGTA
TTGACATCAAAAAAGCAAGTGAATTACCAGTCAGTGAAGTTGCAAGCATTCTCCAAGCT
GATCTTCAGAATGGTCTAAACAAATGTGAAGTTAGTCATAGGCGAGCCTTTCATGGCTGG
AATGAGTTTGATATTAGTGAAGATGAGCCACTGTGGAAGAAGTATATTTCTCAGTTTAAA
AATCCCCTTATTATGCTGCTTCTGGCTTCTGCAGTCATCAGTGTTTTAAATGCATCAGTTT
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CCTCAGCCAGCTGCAACTAATGGAGATCTTGCATCGAGAAGTAACATTGCCTTTATGGGA
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AGCAGGAAAAGATCCAGAAGCATGTTAGTTCGACATCATCATCTTTTCTGAAGTATGA

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Clone variation with respect to NM_014382.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014382 unedited
 GGGTTCACATTAGTATACGACTCATATAGGCGGCCGCAAATTCGCACGAGGCTCCTCTC
 CTCTCTTTCCAGTGTGGCCGTGGCTGACACTAAAGACTTTGTAGCCATCAACCCGAGTG
 CAGTTTCGATGGAAAAATGAAGGTTGCACGTTTTCAAAAAATACCTAATGGTGAAGTGGCA
 ACAATGATTCTGTATTGACATCAAAAAAGCAAGTGAATTACCAGTCAGTGAAGTTGCA
 AGCATTCTCCAAGCTGATCTTCAGAATGGTCTAAACAAATGTGAAGTTAGTCATAGGCCGA
 GCCTTTTCATGGCTGGAATGAGTTTGATATTAGTGAAGATGAGCCACTGTGGAAGAAGTAT
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 TTAATGCATCAGTTTGATGATGCCGTGAGTATCACTGTGGCAATACTTATCGTTGTTACA
 GTTGCCTTTGTTCAAGAAATATCGTTTCAAAAAATCTCTGAAGAATTGAGTAAACTTGTG
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 GTTCCAGGTGATACAGTTTGCCTTTCTGTTGGGGATAGAGTTCCTGCTGACTTACGCTTG
 TTTGAGGCTGTGGATCTTCCATTGATGAGTCCAGCTTGACAGGTGAGACAACGCCTTGT
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 ACCCTCTGCAGAAGACATGGACTCTTTAGAAAACACTTA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014382 unedited
 GGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTACTAAGAAAAACAAAAATTTAC
 TTCAAATTGTAGTATAGGCTTTTCAATCACAAAAAGAAAAGAAAAGAACAGTGATCTGACA
 GTGGTCACATCCTGTGCAAAAAACTTGATACAAAATGATAGCACATGGTATCTGAGCTG
 CTTACATTACAAGAAAAAGGAAATACAGTAGCTGAAATATGGCACTCCTGGGAATCAACT
 TCTAAACCAAAATAGAATGCCTTTGAAATGATTAATTTATTTGTGTATTAGTAAGAAAGC
 CCCACCACATAAATAGTACAATATTTAAAAATAAAAAAAATATATCTATCTAAGATAG
 ATAGTGTATTTGTACTGTTAGACTTCTTTAAGTGCAGAAGGTGGTTTCAAGTTTTGCCTTT
 TTAATTAATAACTGACCATATGCTTTATAAAGTTTCACTCAATCACAAAAGCCAATTTA
 AATCAAGGAATATGATATCAAAGTTGCATAATTTTCAATTTGGGACTGCCAGCAGGTTAAAG
 TCTTAAGTCTTTAACATTAATGTTTCAATTTTGTCAATGAATAGTTAAAAAGTTCTCAA
 TCTTCATATCCTCTTGAACCTTGCCTTTAAATGATCCTCAGACTGCAATTCCTAGTTTG
 CAAATAAAATAATGCAATATGCATCATACTTCAAGAAAAGATGATGATGTGCAACTAACAT
 GCTTCTGGATCTTNTCCCTGCTCCTTTCAACCTCTTTATAATTTCTGCCACTATGCACA
 CTGATGAGGTGAGACCCAAAAGAACAACAGATCCAGTATGCTTAGGCTCTCAGTCTGAAA
 AACTTCTGAAGCGNNNAGAAGTAATACTAGTAATTGTCCATGATGGATCCCAGACTGCAT
 AGCAACATCTATACTGCAGAGTCATCTCAACACGACTTGGCTGGATCTGAAACTAATNG
 CATGAATGGCAAAACCAACATGGTAAGTCATTGTGGGCT

Restriction Sites:

NotI-NotI

ACCN:

NM_014382

Insert Size:

3510 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_014382.2](#), [NP_055197.2](#)

RefSeq Size: 4753 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

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 (1) has an alternate 5' exon, 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. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.