

Product datasheet for **RG233175**

ATP2C1 (NM_001199179) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|----------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | ATP2C1 (NM_001199179) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | ATP2C1 |
| Synonyms: | ATP2C1A; BCPM; HHD; hSPCA1; PMR1; SPCA1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RG233175 representing NM_001199179
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAGGTTGCACGTTTTCAAAAAATACCTAATGGTGAAAATGAGACAATGATTCCTGTATTGACATCAA
 AAAAAAGCAAGTGAATTACCAAGTCAGTGAAGTTGCAAGCATTCTCCAAGCTGATCTTCAGAATGGTCTAAA
 CAAATGTGAAGTTAGTCATAGGCGAGCCTTTCATGGCTGGAATGAGTTTGATATTAGTGAAGATGAGCCA
 CTGTGGAAGAAGTATATTTCTCAGTTTAAAAATCCCTTATTATGCTGCTTCTGGCTTCTGCAGTCATCA
 GTGTTTTAATGCATCAGTTTGTATGATGCCGTGAGTACTGTTGGAATACTTATCGTTGTTACAGTTGC
 CTTTGTTCAGGAATATCGTTTCAGAAAAATCTCTGAAGAATTGAGTAACTTGTGCCACCAGAATGCCAT
 TGTGTGCGTGAAGGAAAATTGGAGCATACACTGCCCCGAGACTGGTTCCAGGTGATACAGTTTGCCTTT
 CTGTTGGGATAGAGTTCTGCTGACTTACGCTTGTGGAGGCTGTGGATCTTCCATTGATGAGTCCAG
 CTTGACAGGTGAGACAACGCCTTGTCTAAGGTGACAGCTCCTCAGCCAGCTGCAACTAATGGAGATCTT
 GCATCGAGAAGTAACATTGCCTTTATGGGAACACTGGTCAGATGTGGCAAAGCAAAGGGTGTGTCATTG
 GAACAGGAGAAAAATTCTGAATTTGGGGAGGTTTTTAAAAATGATGCAAGCAGAAGAGGCCACAAAAACCC
 TCTGCAGAAGAGCATGGACCTCTTAGGAAAAACACTTTCCTTTTACTCCTTTGGTATAATAGGAATCATC
 ATGTTGGTTGGCTGGTTACTGGGAAAAGATATCCTGGAATGTTTACTATTAGTGAAGTTTGGCTGTAG
 CAGCAATTCCTGAAGGTCTCCCATTTGGTTCACAGTACGCTAGCTCTTGGTGTATGAGAATGGTGAA
 GAAAAGGGCCATTGTGAAAAAGCTGCCTATTGTTGAACTCTGGGCTGCTGTAATGTGATTTGTTTCAGAT
 AAAACTGGAACACTGACGAAGAATGAAATGACTGTTACTCACATTTTACTTCAGATGGTCTGCATGCTG
 AGTTACTGGAGTTGGCTATAATCAATTTGGGGAAGTATTGTTGATGGTGTGTTGTTTCATGGATTCTA
 TAACCCAGCTGTTAGCAGAATTGTTGAGCGGGCTGTGTGTGCAATGATGCTGTAATTAGAAACAATACT
 CTAATGGGGAAGCCAACAGAAGGGCCCTTAATTGCTCTTGAATGAAGATGGGTCTTGTGACTTCAAC
 AAGACTACATCAGAAAAGCTGAATACCCTTTAGCTCTGAGCAAAAGTGGATGGCTGTTAAGTGTGTACA
 CCGAACACAGCAGGACAGACCAGAGATTTGTTTTATGAAAGGTGCTTACGAACAAGTAATTAAGTACTGT
 ACTACATACCAGAGCAAAGGGCAGACCTTGACACTTACTCAGCAGCAGAGAGATGTGTACCAACAAGAGA
 AGGCACGCATGGGCTCAGCGGGACTCAGAGTCTTGTCTTGGCTTCTGGTCTGAACTGGGACAGCTGAC
 ATTTCTTGGCTTGGTGGGAATCATTGATCCACCTAGAAGTGGTGTGAAAGAAGCTGTACAACACTCATT
 GCCTCAGGAGTATCAATAAAAAATGATTACTGGAGATTCACAGGAGACTGCAGTTGCAATCGCCAGTCGTC
 TGGGATTTGATTCCAAAACCTCCAGTCACTCAGGAGAAGAAATAGATGCAATGGATGTTTCAGCAGCT
 TTCACAAATAGTACCAAAGGTTGCAATTTTACAGAGCTAGCCCAAGGCACAAGATGAAAATTATTAAG
 TCGCTACAGAAGAACGGTTCAGTTGTAGCCATGACAGGAGATGGAGTAAATGATGCAAGTGTCTGAAGG
 CTGCAGACATTGGAGTTGCGATGGGCCAGACTGGTACAGATGTTTCAAAGAGGCAGCAGACATGATCCT
 AGTGGATGATGATTTTCAAACATAATGTCTGCAATCGAAGAGGGTAAAGGGATTATAATAACATTA
 AATTTTCGTTAGATTCCAGCTGAGCAGGATATAGCAGCATTAACTTTAATCTCATTGGCTACATTAATGA
 ACTTTCTAATCCTCTCAATGCCATGCAGATTTTGTGGATCAATATTATGATGGATGGACCCAGCTCA
 GAGCCTTGGAGTAGAACCAGTGGATAAAGATGTCATTGTAACCTCCTCGCAACTGGAAGACAGCATT
 TTGACTAAAAACTTGATACTTAAAAACTTGTTCATCAATAATCATTGTTTGTGGGACTTTGTTTGTCT
 TCTGGCGTGAGCTACGAGACAATGTGATTACACCTCGAGACACAACAATGACCTTACATGCTTTGTGTT
 TTTTGACATGTTCAATGCACTAAGTTCCAGATCCAGACCAAGTCTGTGTTTGTGATTGGACTCTGCAGT
 AATAGAATGTTTTGCTATGCAGTTCTTGGATCCATCATGGGACAATTAAGTTATTTACTTTCTCCGC
 TTCAGAAGGTTTTTCAGACTGAGAGCCTAAGCATACTGGATCTGTTGTTTCTTTGGGTCTCACCTCATC
 AGTGTGCATAGTGCAGAAATTATAAGAAGGTTGAAAGGAGCAGGAAAAGATCCAGAAGCATGTTAGT
 TCGACATCATCATTTTTCTTGAAGTA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG233175 representing NM_001199179
 Red=Cloning site Green=Tags(s)

MKVARFQKIPNGENETMIPVLTSSKASELPVSEVASILQADLQNLKCEVSHRRAFHGWNFEFDISEDEP
 LWKKYISQFKNPLIMLLLASAVISVLMHQFDDAVSITVAIILIVTVAFVQEQYRSEKSLLEELSKLVPPECH
 CVREGKLEHTLARLDLVPGDTVCLSVGDRVPADLRLEAVDLSIDESSLTGETTPCSKVTAPQPAATNGDL
 ASRSNIAFMGTLVRCGKAKGVVIGTGENSEFGEVFKMMQAEAPKTPKQSMDDLKQLSFYSFGIIGII
 MLVGVLLGKDILEMFTTISVSLAVAAIPEGLPIVVTVTLALGVMRMVKKRAIVKKLPIVETLGCCNVICSD
 KTGTLTKNEMTVTHIFTSDDLHAEVTGVGYNQFGEVIVDGDVVHGFYNPAVSRIVEAGVCNDAVIRNNT
 LMGKPTGALIALAMKMGDLGLQDDYIRKAEYFSSQKWMVAVKCVHRTQQDRPEICFMKGAYEQVIKYC
 TTYQSKGQTLTLTQQQRDVYQEQEKARMGSAGLRVLALASGPELGQLTFLGLVGIIDPRTGVKEAVTTLI
 ASGVSIKMITGDSQETAVAIASRLGLYSKTSQSVSGEEIDAMDVQQLSQIVPKVAVFYRASPRHKMKI
 SLQKNGSVVAMTGDGVNDAVALKAADIGVAMGQTGTDVCKEADMILVDDDFQTIMSAIEEGKGIYNNIK
 NFVRFQLSTIAALTLISLATLMNFPNPLNAMQILWINIIMDGPPAQLSGVEPVDKDVIRKPPRNWKDSI
 LTKNLILKILVSSIIIVCGTLFVFWREL RDNVITPRD TMTFTCFVFFDMFNALSSRSQTKSVFEIGLCS
 NRMFCYAVLGSIMQQLLVIYFPPLQKVFQTESLSILDLLFLLGLTSSVCIVAEI I K K V E R S R E K I Q K H V S
 STSSSFLEV

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

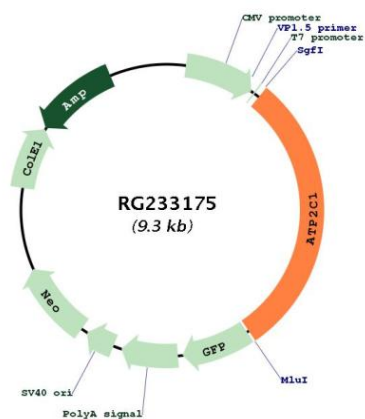
Cloning Scheme:



ACCN: NM_001199179

| | |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ORF Size: | 2757 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: | <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_001199179.2 |
| RefSeq Size: | 5051 bp |
| RefSeq ORF: | 2760 bp |
| Locus ID: | 27032 |
| UniProt ID: | P98194 |
| Cytogenetics: | 3q22.1 |
| 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] |

Product images:



Circular map for RG233175