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Product datasheet for SC304976

ATP2B3 (NM_021949) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: ATP2B3 (NM_021949) Human Untagged Clone

Tag: Tag Free

Symbol: ATP2B3

Synonyms: CFAP39; CLA2; OPCA; PMCA3; PMCA3a; SCAX1

Vector: pCMV6 series

Fully Sequenced ORF:

>NCBI ORF sequence for NM_021949, the custom clone sequence may differ by one or more nucleotides

ATGGGCGACATGGCCAATAGTTCCATCGAGTTCCACCCCAAGCCCCAGCAGCAGCGGGAT
GTCCCCCAGGCTGGAGGCTTTGGGTGCACGCTGGCGGAGCTGCGCACCCTCATGGAGCTG
CGAGGGGCCGAGGCGCTGCAGAAGATCGAGGAGGCCTACGGGGATGTCAGCGGGCTCTGC
CGGAGGCTGAAGACCTCACCCACAGAGGGCCTGGCGGACAACACCAATGACCTGGAGAAG
CGCAGGCAGATCTACGGGCAGAACTTCATCCCCCCAAAGCAACCCAAGACCTTCCTGCAG
CTGGTGTGGGAGGCCCTGCAGGACGTGACCCTCATCATCCTGGAGGTGGCTGCCATCGTC
TCTCTGGGCCTCTCGTTCTATGCGCCGCCAGGAGAGGAGAGTGAAGCCTGTGGGAATGTG
TCGGGAGGCGCAGAAGATGAGGGCGAGGCCGAAGCTGGCTGGATCGAGGGGGCTGCCATC
CTGCTGTCCGTCATCTGTGTGGTGCTGGTCACGGCCTTCAATGACTGGAGCAAGGAGAAG
CAGTTCCGAGGCCTGCAGAGCCGAATTGAGCAGGAGCAGAAGTTCACGGTCATCCGGAAC
GGGCAGCTCCTCCAGGTCCCCGTGGCTGCGCTGGTGGTGGGGGACATTGCCCAGGTCAAG
TACGGCGACCTGCTGCCAGCCGACGGCGTGCTCATCCAGGCCAATGACCTCAAGATCGAC
GAGAGCTCCCTGACGGGCGAGTCTGACCACGTGCGCAAGTCAGCTGACAAAGATCCCATG
CTGCTCTCAGGCACTCATGTCATGGAAGGTTCTGGAAGAATGGTGGTGACCGCCGTTGGC
GTGAATTCCCAGACAGGCATCATCTTCACGCTGCTTGGAGCTGGCGGAGAGGAGGAAGAG
AAGAAAGATAAGAAAGGCAAGCAGCAGGATGGGGCCATGGAGAGTAGCCAGACCAAAGCT
AAGAAGCAGGATGGTGCAGTGGCCATGGAGATGCAGCCCCTGAAGAGCGCGGAGGGTGGG
GAGATGGAGGAGCGGGAGAAGAAGAAAGCCAACGCACCCAAAAAGGAGAAGTCTGTCCTT
CAGGGGAAGCTCACAAAGCTAGCCGTGCAGATCGGGAAAGCAGGGCTGGTGATGTCTGCC
ATCACCGTCATCATCCTGGTCCTCTACTTTGTGATTGAGACGTTTGTCGTGGAAGGCCGG
ACATGGCTGGCAGAGTGCACGCCGGTCTATGTACAATACTTCGTGAAGTTCTTCATCATT
GGTGTCACTGTGCTGGTCGTGGCTGTCCCAGAGGGCCTGCCTCTTGCTGTCACCATCTCC
TTAGCTTACTCTGTCAAGAAAATGATGAAAGACAACAACCTGGTGCGCCACCTGGATGCC
TGCGAGACCATGGGCAACGCCACAGCCATCTGCTCCGACAAGACGGGCACGCTCACCACC
AACCGTATGACCGTGGTCCAGTCCTACCTAGGAGACACCCACTACAAAGAGATTCCGGCC
CCCAGCGCCCTGACCCCTAAGATCCTCGACCTCCTGGTCCATGCCATCTCCATCAACAGT
GCCTATACCACCAAAATACTACCTCCTGAGAAGGAAGGCGCCCTCCCACGCCAGGTGGGC
AATAAGACGGAGTGCGCCCTGCTGGGCTTCGTCTTGGACCTGAAGCGGGACTTCCAGCCC
GTGCGCGAGCAGATCCCGGAAGACAAGCTTTACAAAGTGTACACCTTCAACTCGGTCCGC

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AAGTCCATGAGCACAGTCATCCGCATGCCCGACGGTGGCTTCCGCCTCTTCAGCAAGGGG
GCCTCAGAGATCCTCTTGAAAAAGTGCACCAACATCTTGAACAGCAATGGCGAACTCCGG
GGCTTTCGGCCTCGGGACCGGGACGACATGGTGAGGAAGATCATCGAGCCGATGGCTTGC
GATGGCCTCCGCACCATCTGCATCGCCTACCGGGACTTCTCTGCAGGCCAGGAGCCCGAC
TGGGACAACGAGAATGAGGTCGTGGGTGACCTCACCTGCATAGCTGTCGTGGGCATTGAG
GACCCTGTGCGGCCCGAGGTCCCTGAAGCTATCCGAAAATGCCAGCGTGCTGGCATCACA
GTCCGCATGGTGACTGGGGACAACATCAACACGGCCCGGGCCATCGCAGCCAAATGCGGC
ATCATCCAGCCCGGGGAGGACTTCCTGTGCCTAGAAGGGAAGGAGTTCAACCGGCGGATC
CGCAATGAGAAAGGCGAGATAGAACAGGAGCGGCTGGACAAGGTGTGGCCCAAGCTGAGG
GTGCTGGCCCGGTCGTCTCCCACCGACAAGCACACACTGGTCAAAGGGATTATCGACAGC
ACCACTGGTGAGCAGCGGCAGGTGGTGGCTGTGACAGGGGATGGCACCAACGATGGGCCG
GCCCTCAAGAAGGCGGACGTGGGCTTCGCCATGGGCATCGCAGGGACCGACGTGGCCAAG
GAGGCCTCCGACATCATCCTGACCGATGACAACTTCACCAGCATCGTCAAGGCAGTCATG
TGGGGCCGTAACGTCTATGACAGCATCTCCAAGTTCCTGCAGTTTCAACTGACGGTCAAT
GTGGTGGCTGTGATCGTGGCCTTCACAGGTGCCTGCATTACTCAGGACTCTCCTCTCAAA
GCCGTGCAGATGTTGTGGGTGAACTTGATCATGGACACATTTGCCTCTCTGGCCCTGGCG
ACGGAGCCACCCACAGAGTCGCTGCTGCTGCGGAAGCCGTACGGCCGCGACAAGCCCCTC
ATCTCCCGCACCATGATGAAGAACATTCTGGGCCACGCCGTGTACCAGCTCGCCATCATC
TTCACCCTGCTGTTTGTCGGGGAGCTCTTCTTCGACATCGACAGCGGGAGGAATGCGCCC
CTGCACTCGCCACCCTCAGAGCACTACACCATCATCTTCAACACGTTCGTCATGATGCAG
CTCTTTAACGAGATCAACGCCCGCAAGATCCACGGCGAGAGGAACGTGTTCGACGGCATC
TTCAGCAACCCCATCTTCTGCACCATCGTTTTGGGCACTTTCGGGATTCAGATTGTCATC
GTCCAGTTTGGCGGGAAGCCCTTCAGCTGCTCCCCACTATCCACAGAACAGTGGCTCTGG
TGCCTGTTTGTTGGTGTTGGGGAGCTGGTCTGGGGACAGGTCATTGCCACCATCCCCACC
AGCCAGCTCAAGTGCCTGAAGGAAGCCGGGCACGGGCCCGGGAAGGACGAGATGACCGAC
GAGGAGCTGGCCGAAGGCGAGGAAGAGATCGACCATGCCGAGCGGGAGCTCCGCAGGGGC
CAGATCCTCTGGTTCCGGGGCCTGAACCGGATTCAGACGCAGATGGAGGTAGTGAGTACC
TTCAAGAGAAGCGGTTCAGTTCAGGGTGCTGTGCGCCGGCGGTCTTCGGTCCTCAGCCAG
CTTCATGACGTAACCAATCTTTCTACCCCTACTCACGCAATTCTCTCTGCTGCCAATCCT
ACCAGTGCTGCTGGGAATCCGGGTGGTGAAAGCGTTCCGTAG

Restriction Sites: Please inquire

ACCN: NM_021949

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_021949.2, NP_068768.2
RefSeq Size:	6592 bp
RefSeq ORF:	3522 bp
Locus ID:	492
UniProt ID:	Q16720
Cytogenetics:	Xq28
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Calcium signaling pathway
Gene Summary:	The protein encoded by this gene belongs to the family of P-type primary ion transport ATPases characterized by the formation of an aspartyl phosphate intermediate during the reaction cycle. These enzymes remove bivalent calcium ions from eukaryotic cells against very large concentration gradients and play a critical role in intracellular calcium homeostasis. The mammalian plasma membrane calcium ATPase isoforms are encoded by at least four separate genes and the diversity of these enzymes is further increased by alternative splicing of transcripts. The expression of different isoforms and splice variants is regulated in a developmental, tissue- and cell type-specific manner, suggesting that these pumps are functionally adapted to the physiological needs of particular cells and tissues. This gene encodes the plasma membrane calcium ATPase isoform 3. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) represents the longer transcript, but encodes the shorter isoform (3a). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.