

Product datasheet for **SC321441**

ATP1B3 (NM_001679) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP1B3 (NM_001679) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP1B3
Synonyms:	ATPB-3; CD298
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001679.2
CGAGTACTCCCCGTAACGAGGAGGTGTTCTCGGCCGTCCCACCCTTCACTGCCGTCTCCG
GGCTGCGCCGCGGAGCCGGACGCGCCCTCCGACGCCCTCGCCGCTCCATCCCCGCGG
CGCAGCTCCTCTCGCCGTCCGCGCGCACACCATGACGAAGAACGAGAAGAAGTCCCTCAA
CCAGAGCCTGGCCGAGTGGAAGCTTTCATCTACAACCCGACCACCGGAGAATTCCTGGG
GCGCACCCCAAGAGCTGGGTTTGATCTTGCTTCTACCTAGTTTTTATGGGTTCT
GGCTGCACTCTTCTATTACGATGTGGTTATGCTTCAGACTCTCAACGATGAGGTTCC
AAAATACCGTGACCAGATTCTAGCCAGGACTCATGGTTTTTCCAAAACAGTGACCGC
ATTGGAATATACATTAGTAGGCTGATCCAACCTCGTATGCAGGGTACATTGAAGACCT
TAAGAAGTTTCTAAAACCATATACTTTAGAAGAACAGAAGAACCTCACAGTCTGCCTGA
TGGAGCACTTTTTGAACAGAAGGTCCAGTTTATGTTGCATGTCAGTTTCCTATTTTCATT
ACTTCAAGCATGCAGTGGTATGAATGATCCTGATTTTGGCTATTCTCAAGGAAACCTTG
TATTTCTGTGAAAATGAACAGAATAATTGGATTAAGCCTGAAGGAGTGCCAAGGATAGA
TTGTGTTTCAAAGAATGAAGATATACCAATGTAGCAGTTTATCCTCATAATGGAATGAT
AGACTTAAAAATTTCCCATATTATGGGAAAAAAGTGCATGTTGGGTATCTACAGCCATT
GGTTGCTGTTCAAGTCAGCTTTGCTCCTAACAACTGGGAAAGAAGTAAACAGTTGAGTG
CAAGATTGATGGATCAGCCAACCTAAAAAGTCAGGATGATCGTGACAAGTTTTTGGGACG
AGTTATGTTCAAATCACAGCACGTGCATAGTATGAGTAGGATATCTCCACAGAGTAAAT
GTTGTGTTGCTGCTTTCATTTTGTAAACAGCTGGACCTCCATTCTAGAATTATGAGACC
ACCTTGGAGAAAAGTGTGTGATGACATTGGGTTACATCATAAACGTGCTTCCAGATC
ATAGTGTTCAAGTGTCTGAAAGTAACTGCCTGTTGCCTGCTGCCCTTTGAACCAAGT
TACAGTCGCCAGATAGGGACCGGTGAACACCTGATTCAAAACATGTAGGATGGGGTCTT
GTCCTCTTTTATGTGGTTAAATGCCAAGTGTCTAAAGCTTAATATGCCGTGCTATGTA
AATATTTTATGGATATAACAACGTGCATATTTTGTGTCACAGAGTTTTAGGGATAAAA
TGGTACCCGCGCAACATCAAGTGACTTTATAGCTGCAAGAAATGTGGTATGTGGAGAAGT
TCTGTATGTGAGGAAGGAAAAAAGAAAAATAAAAGTGTGTTTAAAAAATAAAAAA
AAAAAA



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Restriction Sites:	Please inquire
ACCN:	NM_001679
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:	<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:	<u>NM_001679.2</u> , <u>NP_001670.1</u>
RefSeq Size:	1853 bp
RefSeq ORF:	840 bp
Locus ID:	483
UniProt ID:	<u>P54709</u>
Cytogenetics:	3q23
Domains:	Na_K-ATPase
Protein Families:	Transmembrane
Protein Pathways:	Cardiac muscle contraction

Gene Summary:

The protein encoded by this gene belongs to the family of Na⁺/K⁺ and H⁺/K⁺ ATPases beta chain proteins, and to the subfamily of Na⁺/K⁺ -ATPases. Na⁺/K⁺ -ATPase is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane. These gradients are essential for osmoregulation, for sodium-coupled transport of a variety of organic and inorganic molecules, and for electrical excitability of nerve and muscle. This enzyme is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The beta subunit regulates, through assembly of alpha/beta heterodimers, the number of sodium pumps transported to the plasma membrane. The glycoprotein subunit of Na⁺/K⁺ -ATPase is encoded by multiple genes. This gene encodes a beta 3 subunit. This gene encodes a beta 3 subunit. A pseudogene exists for this gene, and it is located on chromosome 2. [provided by RefSeq, Jul 2008]