

## Product datasheet for **SC212979**

### beta 1 Sodium Potassium ATPase (ATP1B1) (NM\_001677) Human 3' UTR Clone

#### Product data:

**Product Type:** 3' UTR Clones  
**Product Name:** beta 1 Sodium Potassium ATPase (ATP1B1) (NM\_001677) Human 3' UTR Clone  
**Vector:** pMirTarget (PS100062)  
**Symbol:** ATP1B1  
**Synonyms:** ATP1B  
**ACCN:** NM\_001677  
**Insert Size:** 1194 bp  
**Insert Sequence:** >SC212979 3'UTR clone of NM\_001677  
The sequence shown below is from the reference sequence of NM\_001677. The complete sequence of this clone may contain minor differences, such as SNPs.  
**Blue**=Stop Codon **Red**=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
TTTGATGTAAAAATTGAAGTTAAGAGCTGATCACAAGCACAAATCTTTCCACTAGCCATTTAATAAGT
TAAAAAAGATACAAAAACAAAAACCTACTAGTCTTGAACAAACTGTCATACGTATGGACCTACACTT
AATCTATATGCTTTACACTAGCTTTCTGCATTTAATAGGTTAGAATGTAATTAAGTGTAGCAATAGC
AACAAAATATTTATTCTACTGTAATGACAAAAGAAAAAGAAAAATTGAGCCTTGGGACGTGCCATTT
TACTGTAATTTATGATTCCGTAAGTACTGTTAGTAAGCAGTGTCTGGCCCTAAGTATTGCTGCC
TTGTGATTTTATTTAGTGTACAGTACTACAGGTGCATACTCTGGTCATTTTTCAAGCCATGTTTTATT
GTATCTGTTTTCTACTTTATGTGAGCAAGGTTTGTCTGCAAGGTGTAATATTCAACGGGAATAAAAC
TGGCATGGTAATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
GAGCATTTTTAACATACTCCATAGTCTTTTCTGTGGTGTAGGTCTTTATTTTTTTTTTTTTTTTTCTGGG
GGCTGGGGTGGGGTTTTGTCATGGGGAACTGCCCTTTAAATTTAAGTGACACTACAGAAAAACACAA
AAAGGTGATGGGTGTGTTATGCTTGTATTGAATGCTGTCTTGACATCTCTTGCCTTGCCTCCGGTAT
GTTCTAAAGCTGTGTCTGAGATCTGGATCTGCCATCACTTTGGCTAGTGACAGGGCTAATTAATTTGC
TTTATACATTTTCTTTACTTTCTTTTTCTTTCTTTCTGGAGGCATCACATGCTGGTGTGTCTTTAT
GAATGTTTTAACCATTTTCATGGTGAAGAATTTTATATTTATGCAGTTGTACAATTTATTTTTTTCT
GCAAGAAAAAGTGAATGTATGAAATAAACAAAGTCACTTGTGTTGAAAAATAATCTTTATTTTGAAC
TTATAAAAAGCAATGCAGTACCCATAGACTGGTGTAAATGTTGTCTACAGTGCAAAATCCATGTTCT
AACATATGTAATAATTGCCAGGAGTACAGTGCTCTTGTGATCTTGTATTTCAGTCAGGTTAAAACAACG
GACAATAAAAAGAATGAACACA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTTCGATTCCACCGCCGCTTCTATGAAAGG
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**Restriction Sites:** SgfI-MluI



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
<b>Components:</b>	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
<b>RefSeq:</b>	<a href="#">NM_001677.4</a>
<b>Summary:</b>	The protein encoded by this gene belongs to the family of Na <sup>+</sup> /K <sup>+</sup> and H <sup>+</sup> /K <sup>+</sup> ATPases beta chain proteins, and to the subfamily of Na <sup>+</sup> /K <sup>+</sup> -ATPases. Na <sup>+</sup> /K <sup>+</sup> -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 <sup>+</sup> /K <sup>+</sup> -ATPase is encoded by multiple genes. This gene encodes a beta 1 subunit. Alternatively spliced transcript variants encoding different isoforms have been described, but their biological validity is not known. [provided by RefSeq, Mar 2010]
<b>Locus ID:</b>	481
<b>MW:</b>	46.6