

# Recombinant Full Length Human ATP1B1 Protein, GST-tagged

**Cat. No.** ATP1B1-1131HF    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**      Human ATP1B1 full-length ORF ( AAH00006, 1 a.a. - 303 a.a.) recombinant protein with GST-tag at N-terminal.

**Species**                      Human

**Source**                        In Vitro Cell Free System

**ProteinLength**              303 amino acids

**Description**                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]

**Molecular Mass**              58.96 kDa

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**AA Sequence**

MARGKAKEEG SWKKFIWNSE KKEFLGRTGG SWFKILLFYV IFYGCLAGIF  
 IGTIQVMLLT ISEFKPTYQD RVAPPGLTQI PQIQKTEISF RPNDPKSYEA  
 YVLNIVRFLE KYKDSAQRDD MIFEDCGDVP SEPKERGDFN HERGERKVCR  
 FKLEWLGNC SGLNDETYGYK EGKPCIIKL NRVLGFKPKP PKNESLETYP  
 VMKYNPVLP VQCTGKRDED KDKVGNVEYF GLGNSPGFPL QYYPYGGKLL  
 QPKYLQPLLA VQFTNLTMDT EIRIECKAYG ENIGYSEKDR FQGRFDVKIE VKS

**Applications**

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);  
 Antibody Production; Protein Array

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name** [ATP1B1 ATPase, Na+/K+ transporting, beta 1 polypeptide \[ Homo sapiens \]](#)

**Official Symbol** [ATP1B1](#)

**Synonyms**

ATP1B1; ATPase, Na+/K+ transporting, beta 1 polypeptide; ATP1B;  
 sodium/potassium-transporting ATPase subunit beta-1; adenosinetriphosphatase; Na,  
 K-ATPase beta-1 polypeptide; Beta 1-subunit of Na(+),K(+)-ATPase;  
 sodium/potassium-dependent ATPase beta-1 subunit; sodium/potassium-transporting  
 ATPase beta-1 chain; MGC1798

**Gene ID** [481](#)

**mRNA Refseq** [NM\\_001677](#)

**Protein Refseq** [NP\\_001668](#)

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<b>MIM</b>	182330
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<b>UniProt ID</b>	P05026
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