

## Product Information

### MemDX™ Membrane Protein Human ATP4B (ATPase H+/K+ transporting subunit beta) Full Length

Cat. No.: **MPC2557K**

This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human ATP4B membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

#### Product Specifications

##### Host Species

Human

##### Target Protein

ATP4B

##### Protein Length

Full length

##### Protein Class

Transporter

##### TMD

1

##### Sequence

MAALQEKKTCGQRMEEFQRYCWNPDGTGQMLGRTLSRWVVWISLYYVAFYVV  
MTGLFALCLYVLMQTVDPYTPDYQDQLRSPGVTLRPDVYGEKGLEIVYNV  
SDNRTWADLTQTLHAFLAGYSPAQQEDSINCTSEQYFFQESFRAPNHTKF  
SCKFTADMQLQNCGLADPNFGFEEGKPCFIKMNRIVKFLPSNGSAPRVD  
CAFLDQPRELGQPLQVKYYPPNGTFSLHYFPYYGKKAQPHYSNPLVAAKL  
LNIPRNAEVAIVCKVMAEHVTNNPHDPYEGKVEFKLIEK

#### Product Description

##### Expression Systems

HEK293

##### Tag

Based on specific requirements

##### Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

**Form**

Liquid

**Storage**

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

**Target****Target Protein**

ATP4B

**Full Name**

ATPase H<sup>+</sup>/K<sup>+</sup> transporting subunit beta

**Introduction**

The protein encoded by this gene belongs to a family of P-type cation-transporting ATPases. The gastric H<sup>+</sup>, K<sup>+</sup>-ATPase is a heterodimer consisting of a high molecular weight catalytic alpha subunit and a smaller but heavily glycosylated beta subunit. This enzyme is a proton pump that catalyzes the hydrolysis of ATP coupled with the exchange of H<sup>(+)</sup> and K<sup>(+)</sup> ions across the plasma membrane. It is also responsible for gastric acid secretion. This gene encodes the beta subunit of the gastric H<sup>+</sup>, K<sup>+</sup>-ATPase.

**Alternative Names**

ATP4B; ATP6B; potassium-transporting ATPase subunit beta; ATPase H<sup>+</sup>/K<sup>+</sup> transporting beta subunit; ATPase, H<sup>+</sup>/K<sup>+</sup> exchanging, beta polypeptide; ATPase, H<sup>+</sup>/K<sup>+</sup> transporting, beta polypeptide; gastric H<sup>(+)</sup>/K<sup>(+)</sup> ATPase subunit beta; gastric H<sup>+</sup>/K<sup>+</sup> ATPase beta subunit; gastric hydrogen-potassium ATPase, beta; potassium-transporting ATPase beta chain; proton pump beta chain; ATPase H<sup>+</sup>/K<sup>+</sup> transporting subunit beta

**Gene ID**

[496](#)

**UniProt ID**

[P51164](#)