

# Recombinant Human ATP6AP2 Protein, His-tagged

Cat. No. ATP6AP2-02H Lot. No. (See product label)

## SPECIFICATION

**Product Overview** Recombinant human ATP6AP2 produced in E. coli is a single, non-glycosylated, polypeptide chain containing 296 amino acids including a 10 a.a N-terminal His tag.

**Species** Human

**Source** E.coli

**Description** This gene encodes a protein that is associated with adenosine triphosphatases (ATPases). Proton-translocating ATPases have fundamental roles in energy conservation, secondary active transport, acidification of intracellular compartments, and cellular pH homeostasis. There are three classes of ATPases- F, P, and V. The vacuolar (V-type) ATPases have a transmembrane proton-conducting sector and an extramembrane catalytic sector. The encoded protein has been found associated with the transmembrane sector of the V-type ATPases.

**Form** Filtered White lyophilized (freeze-dried) powder.

**Molecular Mass** 33 kDa

**AA Sequence**  
 MKHHHHHHASNEFSILKSPGSVVFRNGNWPIPIGERIPDVAALSMGFVSKEDLSWPG  
 LAVGNLFHRPRATVMVMVKGVNKLALPPGSVISYPLENAVPFSLDSVANSIHSLSLSE  
 ETPVVLQLAPSEERVYMGKANSVFEDLSVTLRQLRNRLFQENSVLSSLPLNLSLRN  
 NEVDLLFLSELQVLHDISSLLSRHKHLAKDHSPDLYSLELAGLDEIGKRYGEDSEQFR  
 DASKILVDALQKFADDMYSLYGGNAVVELVTVKSFDTSLIRKTRTILEAKQAKNPASP  
 YNLAYKYNFE.

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<b>Purity</b>	> 90% by SDS-PAGE
<b>Storage</b>	Store lyophilized protein at -20 centigrade. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4 centigrade for a limited period of time; it does not show any change after two weeks at 4 centigrade.
<b>Concentration</b>	0.5 mg/mL
<b>Storage Buffer</b>	ATP6AP2 filtered (0.4 µm) and lyophilized in 20 mM Tris buffer and 50 mM NaCl, pH 7.5.
<b>Dilutions</b>	It is recommended to add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. ATP6AP2 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.
<b>Shipping</b>	Shipped at Room temperature.

## GENE INFORMATION

<b>Gene Name</b>	ATP6AP2 ATPase H+ transporting accessory protein 2 [ Homo sapiens (human) ]
<b>Official Symbol</b>	ATP6AP2
<b>Synonyms</b>	ATP6AP2; ATPase H+ transporting accessory protein 2; PRR; M8-9; MRXE; RENR; XMRE; XPDS; CDG2R; HT028; MRXSH; ELDF10; ATP6IP2; MSTP009; APT6M8-9; ATP6M8-9; renin receptor; ATPase H(+)-transporting lysosomal-interacting protein 2; ATPase, H+ transporting, lysosomal (vacuolar proton pump) membrane sector associated protein M8-9; ATPase, H+ transporting, lysosomal accessory protein 2

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Gene ID	10159
mRNA Refseq	NM_005765
Protein Refseq	NP_005756
MIM	300556
UniProt ID	O75787

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