

Recombinant Full Length Human ATP6V1B1 Protein, GST-tagged

Cat. No. ATP6V1B1-1510HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Human ATP6V1B1 full-length ORF (AAH63411, 1 a.a. - 513 a.a.) recombinant protein with GST-tag at N-terminal.

Species

Human

Source

In Vitro Cell Free System

ProteinLength

513 amino acids

Description

This gene encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of eukaryotic intracellular organelles. V-ATPase dependent organelle acidification is necessary for such intracellular processes as protein sorting, zymogen activation, receptor-mediated endocytosis, and synaptic vesicle proton gradient generation. V-ATPase is composed of a cytosolic V1 domain and a transmembrane V0 domain. The V1 domain consists of three A and three B subunits, two G subunits plus the C, D, E, F, and H subunits. The V1 domain contains the ATP catalytic site. The V0 domain consists of five different subunits: a, c, c', c'', and d. Additional isoforms of many of the V1 and V0 subunit proteins are encoded by multiple genes or alternatively spliced transcript variants. This encoded protein is one of two V1 domain B subunit isoforms and is found in the kidney. Mutations in this gene cause distal renal tubular acidosis associated with sensorineural deafness. [provided by RefSeq, Jul 2008]

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Molecular Mass	81.95 kDa
AA Sequence	MAMEIDSRPG GLPGSSCNLG AAREHMQAVT RNYITHPRVT YRTVCSVNGP LVVLDRVKFA QYAEIVHFTL PDGTQRSGQV LEVAGTKAIV QVFEGTSGID ARKTTCEFTG DILRTPVSED MLGRVFNGSG KPIDKGPVVM AEDFLDINGQ PINPHSRIYP EEMIQTGISP IDVMNSIARG QKIPIFSAAG LPHNEIAAQI CRQAGLVKKS KAVLDYHDDN FAIVFAAMGV NMETARFFKS DFEQNGTMGN VCLFLNLAND PTIERITPR LALTAEFLA YQCEKHVLVI LTDMSSYAEA LREVSAAREE VPGRRGFPGY MYTDLATIYE RAGRVEGRGG SITQIPILTM PNDDITHPIP DLTGFITEGQ IYVDRQLHNR QIYPPINVLP SLSRLMKSAI GEGMTRKDHG DVSNQLYACY AIGKDVQAMK AVVGEEALTS EDLLYLEFLQ KFEKNFINQG PYENRSVFES LDLGWKLLRI FPKEMLKRIIP QAVIDEFYSR EGALQDLAPD TAL
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	ATP6V1B1 ATPase, H ⁺ transporting, lysosomal 56/58kDa, V1 subunit B1 [Homo sapiens]
Official Symbol	ATP6V1B1
Synonyms	ATP6V1B1; ATPase, H ⁺ transporting, lysosomal 56/58kDa, V1 subunit B1; ATP6B1, vacuolar proton pump 3 , VPP3; V-type proton ATPase subunit B, kidney isoform; Renal tubular acidosis with deafness; RTA1B; VATB; Vma2; V-ATPase B1 subunit;

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V-ATPase subunit B 1; vacuolar proton pump 3; H⁺-ATPase beta 1 subunit; vacuolar proton pump, subunit 3; vacuolar proton pump subunit B 1; endomembrane proton pump 58 kDa subunit; H(+)-transporting two-sector ATPase, 58kD subunit; VMA2; VPP3; ATP6B1; MGC32642

Gene ID	525
mRNA Refseq	NM_001692
Protein Refseq	NP_001683
MIM	192132
UniProt ID	P15313

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