

Recombinant Full Length Human ATP6V0A1 Protein, GST-tagged

Cat. No. ATP6V0A1-1540HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Human ATP6V0A1 full-length ORF (NP_005168.2, 1 a.a. - 831 a.a.) recombinant protein with GST-tag at N-terminal.

Species

Human

Source

In Vitro Cell Free System

ProteinLength

831 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 gene encodes one of three A subunit proteins and the encoded protein is associated with clathrin-coated vesicles. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

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Molecular Mass 122.2 kDa

AA Sequence

MGELFRSEEM TLAQLFLQSE AAYCCVSELG ELGKVQFRDL NPDVNVFQRK
 FVNEVRRCEE MDRKLRFVEK EIRKANIPIM DTGENPEVPF PRDMIDLEAN
 FEKIENELKE INTNQEALKR NFLELTELFK ILRKTQQFFD EMADPDLLEE
 SSSLLEPSEM GRGTPLRLGF VAGVINRERI PTFERMLWRV CRGNVFLRQA
 EIENPLEDPV TGDYVHKSUF IIFFQGDQLK NRVKKICEGF RASLYPCPET
 PQERKEMASG VNTRIDDLQM VLNQTEDHRQ RVLQAAAKNI RVWFIKVRKM
 KAIYHTLNL NIDVTQKCLI AEVWCPVTDL DSIQFALRRG TEHSGSTVPS
 ILNRMQTNQT PPTYNKTNKF TYGFQNIQVDA YGIGTYREIN PAPYTIITFP
 FLFAVMFGDF GHGILMTLFA VWMVLRESRI LSQKNENEMF STVFSGRYII
 LLMGVFSMYT GLIYNDCFSK SLNIFGSSWS VRPMFTYNWT EETLRGNPVL
 QLNPALPGVF GGPYPFGIDP IWNIATNKLT FLNSFKMKMS VILGIIHMLF
 GVSLSLFNHI YFKKPLNIYF GFIFEIIFMT SLFGYLVILI FYKWTAYDAH TSENAPSLLI
 HFINMFLFSY PESGYSMLYS GQKGIQCFLV VVALLCVPWM LLFKPLVLRR
 QYLRKHLGT LNFGGIRVGN GPTEEDAEII QHDQLSTHSE DADEFDFGDT
 MVHQAIHTIE YCLGCISNTA SYLRLWALS SLAHAQLSEVLW TMVIHIGLSV
 KSLAGGLVLF FFFATAFATLT VAILLIMEGL SAFLHALRLH WVEFQNKFY S
 GTGFKFLPFS FEHIREGKFE E

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

[ATP6V0A1 ATPase, H⁺ transporting, lysosomal V0 subunit a1 \[Homo sapiens \]](#)

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Official Symbol	ATP6V0A1
Synonyms	ATP6V0A1; ATPase, H ⁺ transporting, lysosomal V0 subunit a1; ATP6N1, ATP6N1A, ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump) non catalytic accessory protein 1A (110/116kD) , ATPase, H ⁺ transporting, lysosomal V0 subunit a isoform 1 , ATPase, H ⁺ transporting, lysosomal V0 subunit A1 , VPP1; V-type proton ATPase 116 kDa subunit a isoform 1; a1; Stv1; Vph1; V-ATPase 116 kDa; vacuolar proton pump subunit 1; vacuolar proton pump, subunit 1; V-type proton ATPase 116 kDa subunit a; vacuolar-type H ⁽⁺⁾ -ATPase 115 kDa subunit; vacuolar adenosine triphosphatase subunit Ac116; vacuolar proton translocating ATPase 116 kDa subunit A; H ⁽⁺⁾ -transporting two-sector ATPase, 116 kDa accessory protein A1; clathrin-coated vesicle/synaptic vesicle proton pump 116 kDa subunit; ATPase, H ⁺ transporting, lysosomal non-catalytic accessory protein 1 (110/116kD); ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein 1A (110/116kD); VPP1; ATP6N1; ATP6N1A; DKFZp781J1951
Gene ID	535
mRNA Refseq	NM_001130020
Protein Refseq	NP_001123492
MIM	192130
UniProt ID	Q93050

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