

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]

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	122.2 kDa
AA Sequence	MGELFRSEEM TLAQLFLQSE AAYCCVSELG ELGKVQFRDL NPDVNVFQRK FVNEVRRCEE MDRKLRFVEK EIRKANIPIM DTGENPEVPF PRDMIDLEAN FEKIENELKE INTNQEALKR NFLELTELF ILRKTQQFFD EMADPDLLEE SSSLLEPSEM GRGTPLRLGF VAGVINRERI PTFERMLWRV CRGNVFLRQA EIENPLEDPV TGDYVHKSVE IIFFQGDQLK NRVKKICEGF RASLYPCPET PQERKEMASG VNTRIDDLQM VLNQTEDHRQ RVLQAAAKNI RVWFIKVRKM KAIYHTLNLC NIDVTQKCLI AEVWCPVTDL DSIQFALRRG TEHSGSTVPS ILNRMQTNQT PPTYNKTNKF TYGFQNIQDA YGIGTYREIN PAPYTIITFP FLFAVMFGDF GHGILMTLFA VWMVLRESRI LSQKNENEMF STVFSGRYII LLMGVFSMYT GLIYNDCFSK SLNIFGSSWS VRPMFTYNWT EETLRGNPVL QLNPALPGVF GGPYPFGIDP IWNIATNKLT FLNSFKMKMS VILGIIHMLF GVSLSLFNHI YFKKPLNIYF GFPEIIFMT SLFGYLVILI FYKWTAYDAH TSENAPSLLI HFINMFLFSY PESGYSMLYS GQKGIQCFLV VALLCVPWM LLFKPLVLRR QYLRRKHLGT LNFGGIRVGN GPTEEDAEII QHDQLSTHSE DADEFDFGDT MVHQAIHTIE YCLGCISNTA SYLRLWALSL AHAQLSEVLW 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