

## Recombinant Human ATP6V1A protein, GST-tagged

**Cat. No.** ATP6V1A-1000H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b> | Human ATP6V1A full-length ORF ( AAH13138, 1 a.a. - 617 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | <p>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 A subunit isoforms and is found in all tissues. Transcript variants derived from alternative polyadenylation exist. [provided by RefSeq, Jul 2008]</p> |
| <b>Molecular Mass</b>   | 93.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | MDFSKLPKILDEDKESTFGYVHGVSGPVVTACDMAGAAMYELVRVGHSELVGEIIRL<br>EGDMATIQVYEETSGVSVGDPVLRGTGKPLSVELGPGIMGAIFDGIQRPLSDISSQTQS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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IYIPRGVNVSALS RDIKWDFTPCKNLRVGSHITGGDIYGIVSENSLIKHKIMLPPRNRG  
 TVTYIAPPGNYDTSDVVLELEFEGVKEKFTMVQVWPVRQVRPVTEKLPANHPLL TG  
 QRVLDALFPCVQGGTTAIPGAFGCGKTVISQSLSKYSNSDVIIYVGCGERGNEMSEV  
 LRDFPELTMEVDGKVESIMKRTALVANTS NMPVAAREASIYTGITLSEYFRDMGYHV  
 SMMADSTSRWAEALREISGR LAEMPADSGYPAYLGARLASFYERAGRVKCLGNPE  
 REGSVSIVGAVSPPGGDFSDPVT SATLGIVQVFWGLDKKLAQRKHFPSVNW LISYSK  
 YMRALDEYYDKHFTEFVPLRTKAKEILQEEEDLAEIVQLVGKASLAETDKITLEVAKLI  
 KDDFLQQNGYTPYDRFCPFYKTVGMLS NMIAFYDMARRAVETTAQSDNKITWSIIRE  
 HMGDILYKLSSMKFKDPLKDGEAKIKSDYAQLLED MQNAFRSLED

**Applications**

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);  
 Antibody Production; Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**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**

ATP6V1A ATPase, H<sup>+</sup> transporting, lysosomal 70kDa, V1 subunit A [ Homo sapiens ]

**Official Symbol**

ATP6V1A

**Synonyms**

ATP6V1A; ATPase, H<sup>+</sup> transporting, lysosomal 70kDa, V1 subunit A; ATP6A1,  
 ATP6V1A1, ATPase, H<sup>+</sup> transporting, lysosomal (vacuolar proton pump), alpha  
 polypeptide, 70kD, isoform 1 , VPP2; V-type proton ATPase catalytic subunit A;  
 VA68; Vma1; V-ATPase subunit A; V-ATPase A subunit 1; V-ATPase 69 kDa subunit  
 1; vacuolar ATPase isoform VA68; vacuolar proton pump subunit alpha; vacuolar  
 proton pump alpha subunit 1; ATPase, H<sup>+</sup> transporting, lysosomal, subunit A1; H(+)-

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transporting two-sector ATPase, subunit A; H<sup>+</sup>-transporting ATPase chain A, vacuolar (VA68 type); vacuolar ATP synthase catalytic subunit A, ubiquitous isoform; HO68; VPP2; ATP6A1; ATP6V1A1;

**Gene ID** 523

**mRNA Refseq** NM\_001690

**Protein Refseq** NP\_001681

**MIM** 607027

**UniProt ID** P38606

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