

Recombinant Full Length Human ATP6V1H Protein, GST-tagged

Cat. No. ATP6V1H-1294HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ATP6V1H full-length ORF (AAH25275, 1 a.a. - 483 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	483 amino acids
Description	This gene encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of intracellular organelles. V-ATPase-dependent organelle acidification is necessary for multiple processes including protein sorting, zymogen activation, receptor-mediated endocytosis, and synaptic vesicle proton gradient generation. The encoded protein is the regulatory H subunit of the V1 domain of V-ATPase, which is required for catalysis of ATP but not the assembly of V-ATPase. Decreased expression of this gene may play a role in the development of type 2 diabetes. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May 2012]
Molecular Mass	78.87 kDa
AA Sequence	MTKMDIRGAV DAAVPTNIIA AKAAEVRANK VNWQSYLQGGQ MISAEDCEFI QRFEMKRSPE EKQEMLQTEG SQCAKTFINL MTHICKEQTV QYILTMVDDM LQENHQRVSI FFDYARCSKN TAWPYFLPML NRQDPFTVHM AARIIAKLAA

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WGKELMEGSD LNYFFNWIKT QLSSQKLGRS GVAVETGTVS SSDSSQYVQC
 VAGCLQLMLR VNEYRFAWVE ADGVNCIMGV LSNKCGFQLQ YQMIFSIWLL
 AFSPQMCEHL RRYNIIPVLS DILQESVKEK VTRIILAAFR NFLEKSTERE
 TRQEYALAMI QCKVLKQLEN LEQQKYDDED ISEDIKFLLE KLGESVQDLS
 SFDEYSSELK SGRLEWSPVH KSEKFWRENA VRLNEKNYEL LKILTKLLEV
 SDDPQVLAVA AHDVGEYVRH YPRGKRVIEQ LGGKQLVMNH MHEDQQVRY
 NALLAVQKLM VHNWEYLGKQ LQSEQPQTAA ARS

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

ATP6V1H ATPase, H⁺ transporting, lysosomal 50/57kDa, V1 subunit H [Homo sapiens]

Official Symbol

ATP6V1H

Synonyms

ATP6V1H; ATPase, H⁺ transporting, lysosomal 50/57kDa, V1 subunit H; ATPase, H⁺ transporting, lysosomal 50/57kD, V1 subunit H; V-type proton ATPase subunit H; CGI 11; SFD; SFDalpha; SFDbeta; vacuolar ATP synthase subunit H; VMA13; V-ATPase H subunit; V-ATPase subunit H; nef-binding protein 1; protein VMA13 homolog; vacuolar ATPase subunit H; V-ATPase 50/57 kDa subunits; vacuolar proton pump H subunit; vacuolar proton pump subunit H; vacuolar proton pump subunit SFD; NBP1; CGI-11; MSTP042

Gene ID

51606

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mRNA Refseq	NM_015941
Protein Refseq	NP_057025
MIM	608861
UniProt ID	Q9UI12

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