

Recombinant Human ATP6V1H protein, GST-tagged

Cat. No. ATP6V1H-1012H **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	Wheat Germ
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	MTKMDIRGAVDAAVPTNIIAAKAAEVRANKVNWQSYLQGQMISAEDCEFIQRFEMKR SPEEKQEMLQTEGSQCAKTFINLMTHICKEQTVQYILTMVDDMLQENHQRVSIFFDY ARCSKNTAWPYFLPMLNRQDPFTVHMAARIIAKLAAWGKELMEGSDLNYYFNWIKT QLSSQKLRGSGVAVETGTVSSSDSSQYVQCVAGCLQLMLRVNEYRFAWVEADGVN CIMGVLSNKCGLQYQMIFSIWLLAFSPQMCEHLRRYNIIPVLSLILQESVKEKVTRII

 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

LAAFRNFLEKSTERETRQEYALAMIQCKVLKQLENLEQQKYDDEDISEDIKFLLEKLG
 ESVQDLSSFDEYSSELKSGRLEWSPVHKSEKFWRENAVRLNEKNYELLKILTKLLEV
 SDDPQVLAVAAHDVGEYVRHYPRGKRIVIEQLGGKQLVMNHHMHEDQQVRYNALLA
 VQKLMVHNWEYLGKQLQSEQPQTAAARS

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

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;

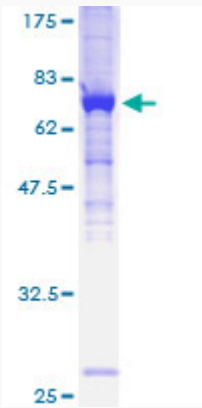
Gene ID

51606

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mRNA Refseq	NM_015941
Protein Refseq	NP_057025
MIM	608861
UniProt ID	Q9UI12
 12.5% SDS-PAGE Stained with Coomassie Blue.	