

Recombinant Full Length Human ATP6V1D Protein, GST-tagged

Cat. No. ATP6V1D-1284HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ATP6V1D full-length ORF (AAH01411, 1 a.a. - 247 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	247 amino acids
Description	<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 gene encodes the V1 domain D subunit protein. [provided by RefSeq, Jul 2008]</p>
Molecular Mass	52.91 kDa
AA Sequence	MSGKDRIEIF PSRMAQTIMK ARLKGAQTGR NLLKKKSDAL TLRFRQILKK

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IIETKMLMGE VMREAAFSLA EAKFTAGDFS TTVIQNVNKA QVKIRAKKDN
 VAGVTLPVFE HYHEGTDSYE LTGLARGGEQ LAKLKRNYAK AVELLVELAS
 LQTSFVTLDE AIKITNRRVN AIEHVIIPRI ERTLAYIITE LDEREREEFY RLKKIQEKKK
 ILKEKSEKDL EQRRAGEVL EPANLLAEK DEDLLFE

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 [ATP6V1D ATPase, H+ transporting, lysosomal 34kDa, V1 subunit D \[Homo sapiens \]](#)

Official Symbol [ATP6V1D](#)

Synonyms ATP6V1D; ATPase, H+ transporting, lysosomal 34kDa, V1 subunit D; ATP6M, ATPase, H+ transporting, lysosomal (vacuolar proton pump); V-type proton ATPase subunit D; VATD; VMA8; V-ATPase D subunit; V-ATPase subunit D; vacuolar H-ATPase subunit D; vacuolar proton pump D subunit; vacuolar proton pump subunit D; vacuolar ATP synthase subunit D; vacuolar proton-ATPase subunit D; V-ATPase 28 kDa accessory protein; vacuolar proton pump delta polypeptide; ATPase, H+ transporting lysosomal, member M; H(+)-transporting two-sector ATPase, subunit M; ATPase, H+ transporting, lysosomal (vacuolar proton pump); ATP6M

Gene ID [51382](#)

mRNA Refseq [NM_015994](#)

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Protein Refseq NP_057078

MIM 609398

UniProt ID Q9Y5K8

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