

Recombinant Full Length Human ATP6V1B2 Protein, GST-tagged

Cat. No. ATP6V1B2-1511HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ATP6V1B2 full-length ORF (AAH03100, 1 a.a. - 511 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	511 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, three B, and two G subunits, as well as a C, D, E, F, and H subunit. The V1 domain contains the ATP catalytic site. The protein encoded by this gene is one of two V1 domain B subunit isoforms and is the only B isoform highly expressed in osteoclasts. [provided by RefSeq, Jul 2008]
Molecular Mass	81.95 kDa
AA Sequence	MALRAMRGIV NGAPELPVP TGGPAVGARE QALAVSRNYL SQPRLTYKTV SGVNGPLVIL DHVKFPRYAE IVHLTLPDGT KRSGQVLEVS GSKAVVQVFE

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GTSGIDAKKT SCEFTGDILR TPVSEDMLGR VFNGSGKPID RGPVVLAEDF
 LDIMGQPINP QCRIYPEEMI QTGISAIDGM NSIARGQKIP IFSAAGLPHN
 EIAAQICRQA GLVKKSKDVV DYSEENFAIV FAAMGVNMET ARFFKSDFEE
 NGSMDNVCLF LNLANDPTIE RIITPRLALT TAEFLAYQCE KHVLVILTDM
 SSYAEALREV SAAREEVPGR RGFPGYMYTD LATIYERAGR VEGRNGSITQ
 IPILTMPNDD ITHPIPDLTG YITEGQIYVD RQLHNRQIYP PINVLPSLSR
 LMKSAIGEGM TRKDHADVSN QLYACYAIGK DVQAMKAVVG EEALTSDDL
 YLEFLQKFER NFIAQGPYEN RTVFETLDIG WQLLRIFPKE MLKRIPQSTL
 SEFYPRDSAK H

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

ATP6V1B2 ATPase, H⁺ transporting, lysosomal 56/58kDa, V1 subunit B2 [Homo sapiens]

Official Symbol

ATP6V1B2

Synonyms

ATP6V1B2; ATPase, H⁺ transporting, lysosomal 56/58kDa, V1 subunit B2; ATP6B2, ATPase, H⁺ transporting, lysosomal (vacuolar proton pump), beta polypeptide, 56/58kD, isoform 2 , ATPase, H⁺ transporting, lysosomal 56/58kDa, V1 subunit B, isoform 2 , VPP3; V-type proton ATPase subunit B, brain isoform; HO57; VATB; Vma2; V-ATPase B2 subunit; V-ATPase subunit B 2; vacuolar proton pump subunit B 2; H⁺ transporting two-sector ATPase; vacuolar H⁺-ATPase 56,000 subunit;

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endomembrane proton pump 58 kDa subunit; VPP3; ATP6B2; ATP6B1B2

Gene ID 526**mRNA Refseq** NM_001693**Protein Refseq** NP_001684**MIM** 606939**UniProt ID** P21281 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