

## Recombinant Human ATP, His-tagged

Cat. No. ATP6V1B2-10042H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human ATPHis-tag, was expressed in E.coli and purified by Ni-sepharose.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	162-511a.a.
<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, 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.</p>
<b>Storage</b>	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
<b>Storage Buffer</b>	1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

## GENE INFORMATION

<b>Gene Name</b>	ATP6V1B2 ATPase, H <sup>+</sup> transporting, lysosomal 56/58kDa, V1 subunit B2 [ Homo sapiens ]
<b>Official Symbol</b>	ATP6V1B2
<b>Synonyms</b>	ATP6V1B2; ATPase, H <sup>+</sup> transporting, lysosomal 56/58kDa, V1 subunit B2; ATP6B2, ATPase, H <sup>+</sup> transporting, lysosomal (vacuolar proton pump), beta polypeptide, 56/58kD, isoform 2 , ATPase, H <sup>+</sup> 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 <sup>+</sup> transporting two-sector ATPase; vacuolar H <sup>+</sup> -ATPase 56,000 subunit; endomembrane proton pump 58 kDa subunit; VPP3; ATP6B2; ATP6B1B2;
<b>Gene ID</b>	526
<b>mRNA Refseq</b>	NM_001693
<b>Protein Refseq</b>	NP_001684
<b>MIM</b>	606939
<b>UniProt ID</b>	P21281
<b>Chromosome Location</b>	8p21.3
<b>Pathway</b>	Collecting duct acid secretion, organism-specific biosystem; Collecting duct acid secretion, conserved biosystem; Epithelial cell signaling in Helicobacter pylori infection, organism-specific biosystem; Epithelial cell signaling in Helicobacter pylori

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



infection, conserved biosystem; Insulin receptor recycling, organism-specific biosystem; Iron uptake and transport, organism-specific biosystem; Metabolic pathways, organism-specific biosystem;

**Function**

ATP binding; hydrogen ion transmembrane transporter activity; hydrogen ion transporting ATP synthase activity, rotational mechanism; hydrolase activity; hydrolase activity, acting on acid anhydrides, catalyzing transmembrane movement of substances; proton

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA