

## Recombinant Human ATP6V1C2, GST-tagged

**Cat. No.** ATP6V1C2-10044H **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human ATP6V1C2 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-381 a.a.
<b>Description</b>	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. This gene encodes alternate transcriptional splice variants, encoding different V1 domain C subunit isoforms.
<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 100mM GSH and 1% Triton X-100, 15% glycerol.

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## GENE INFORMATION

<b>Gene Name</b>	ATP6V1C2 ATPase, H <sup>+</sup> transporting, lysosomal 42kDa, V1 subunit C2 [ Homo sapiens ]
<b>Official Symbol</b>	ATP6V1C2
<b>Synonyms</b>	ATP6V1C2; ATPase, H <sup>+</sup> transporting, lysosomal 42kDa, V1 subunit C2; ATPase, H <sup>+</sup> transporting, lysosomal 42kD, V1 subunit C isoform 2 , ATPase, H <sup>+</sup> transporting, lysosomal 42kDa, V1 subunit C isoform 2; V-type proton ATPase subunit C 2; ATP6C2; VMA5; V-ATPase C2 subunit; V-ATPase subunit C 2; vacuolar proton pump subunit C 2;
<b>Gene ID</b>	245973
<b>mRNA Refseq</b>	NM_001039362
<b>Protein Refseq</b>	NP_001034451
<b>UniProt ID</b>	Q8NEY4
<b>Chromosome Location</b>	2p25.1
<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 infection, conserved biosystem; Insulin receptor recycling, organism-specific biosystem; Iron uptake and transport, organism-specific biosystem; Metabolic pathways, organism-specific biosystem;

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**Function**

hydrogen-exporting ATPase activity, phosphorylative mechanism; hydrolase activity, acting on acid anhydrides, catalyzing transmembrane movement of substances;

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