

## Recombinant Human ATP, His-tagged

**Cat. No.** ATP6V0A2-10034H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <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>    | 3-372a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | The protein encoded by this gene is a subunit of the vacuolar ATPase (v-ATPase), an heteromultimeric enzyme that is present in intracellular vesicles and in the plasma membrane of specialized cells, and which is essential for the acidification of diverse cellular components. V-ATPase is comprised of a membrane peripheral V(1) domain for ATP hydrolysis, and an integral membrane V(0) domain for proton translocation. The subunit encoded by this gene is a component of the V(0) domain. Mutations in this gene are a cause of both cutis laxa type II and wrinkly skin syndrome. |
| <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.                                                                                                                                                                                                                                                                                                                                                                                                                           |

### GENE INFORMATION

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|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | ATP6V0A2 ATPase, H <sup>+</sup> transporting, lysosomal V0 subunit a2 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Official Symbol</b>     | ATP6V0A2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>            | a2; A2V ATPase; ARCL; ATP6a2; ATP6N1D; ATP6V0A2; ATPase, H <sup>+</sup> transporting, lysosomal V0 subunit a isoform 2; ATPase, H <sup>+</sup> transporting, lysosomal V0 subunit a2; Infantile malignant osteopetrosis; J6B7; Lysosomal H(+) transporting ATPase V0 subunit a2; Lysosomal H(+)-transporting ATPase V0 subunit a2; Stv1; TJ6; TJ6M; TJ6s; V ATPase 116 kDa isoform a2; V type proton ATPase 116 kDa subunit a; V type proton ATPase 116 kDa subunit a isoform 2; V-ATPase 116 kDa isoform a2; V-type proton ATPase 116 kDa subunit a isoform 2; Vacuolar proton translocating ATPase 116 kDa subunit a; Vacuolar proton translocating ATPase 116 kDa subunit a isoform 2; Vph1; VPP2_HUMAN; WSS; ATP6V0A2 |
| <b>Gene ID</b>             | 23545                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>         | NM_012463.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Protein Refseq</b>      | NP_036595.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>MIM</b>                 | 611716                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>          | Q9Y487                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Chromosome Location</b> | 12q24.31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Pathway</b>             | Collecting duct acid secretion, organism-specific biosystem; Collecting duct acid secretion, conserved biosystem; Disease, organism-specific biosystem; Epithelial cell signaling in Helicobacter pylori infection, organism-specific biosystem; Epithelial cell signaling in Helicobacter pylori infection, conserved biosystem; Insulin receptor                                                                                                                                                                                                                                                                                                                                                                        |

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recycling, organism-specific biosystem; Iron uptake and transport, organism-specific biosystem

**Function**

hydrogen ion transmembrane transporter activity; protein binding

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