

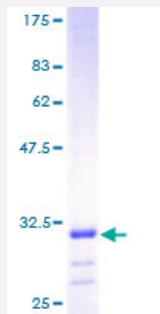
Full-Length

# ATP5E (Human) Recombinant Protein (P01)

Catalog # H00000514-P01

Size 25 ug, 10 ug

## Applications



## Specification

|                         |   |
|-------------------------|---|
| Product Description     | Human ATP5E full-length ORF ( AAH01690, 1 a.a. - 51 a.a.) recombinant protein with GST-tag at N-terminal. |
| Sequence                | MVAYWRQAGLSYIRYSQICAKAVRDALKTEFKANAECTSGSNVKMKVKKE  |
| Host                    | Wheat Germ (in vitro)   |
| Theoretical MW (kDa)    | 31.35   |
| Preparation Method      | <a href="#">in vitro wheat germ expression system</a>   |
| Purification            | Glutathione Sepharose 4 Fast Flow   |
| Quality Control Testing | 12.5% SDS-PAGE Stained with Coomassie Blue.   |
| Storage Buffer          | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                  |
| Storage Instruction     | Store at -80°C. Aliquot to avoid repeated freezing and thawing.   |
| Note                    | Best use within three months from the date of receipt of this protein.                                    |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — ATP5E

Entrez GeneID [514](#)

GeneBank Accession# [BC001690](#)

Protein Accession# [AAH01690](#)

Gene Name ATP5E

Gene Alias ATPE, MGC104243

Gene Description ATP synthase, H<sup>+</sup> transporting, mitochondrial F1 complex, epsilon subunit

Omim ID [606153](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and a single representative of the other 3. The proton channel consists of three main subunits (a, b, c). This gene encodes the epsilon subunit of the catalytic core. Two pseudogenes of this gene are located on chromosomes 4 and 13. [provided by RefSeq]

**Other Designations** F(0)F(1)-ATPase|H(+)-transporting two-sector ATPase|OTTHUMP00000031404|OTTHUMP00000174442|OTTHUMP00000174443|mitochondrial ATP synthase epsilon chain|mitochondrial ATPase

## Pathway

- [Metabolic pathways](#)
- [Oxidative phosphorylation](#)