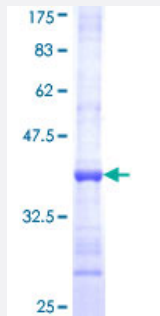


# ATP5J (Human) Recombinant Protein (Q01)

Catalog # H00000522-Q01

Size 25 ug, 10 ug

## Applications



## Specification

<b>Product Description</b>	Human ATP5J partial ORF ( NP_001003696, 9 a.a. - 108 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Sequence</b>	FSSVIRSAVSVHLRRNIGVTAVAFNKELDPIQKLFVDKIREYKSKRQTSGGPVDASSEYQQELERE LFKLKQMFGNADMNTFPTFKFEDPKFEVIEKPQA
<b>Host</b>	Wheat Germ (in vitro)
<b>Theoretical MW (kDa)</b>	36.74
<b>Preparation Method</b>	<a href="#">in vitro wheat germ expression system</a>
<b>Purification</b>	Glutathione Sepharose 4 Fast Flow
<b>Quality Control Testing</b>	12.5% SDS-PAGE Stained with Coomassie Blue.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Storage Instruction</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	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 — ATP5J

Entrez GeneID [522](#)

GeneBank Accession# [NM\\_001003696](#)

Protein Accession# [NP\\_001003696](#)

Gene Name ATP5J

Gene Alias ATP5, ATP5A, ATPM, CF6, F6

Gene Description ATP synthase, H<sup>+</sup> transporting, mitochondrial F0 complex, subunit F6

Omim ID [603152](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. It is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, F0, which comprises the proton channel. The F1 complex consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled in a ratio of 3 alpha, 3 beta, and a single representative of the other 3. The F0 seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene encodes the F6 subunit of the F0 complex, required for F1 and F0 interactions. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq]

**Other Designations** OTTHUMP00000096107|OTTHUMP00000096108|OTTHUMP00000096110|OTTHUMP00000096111|OTTHUMP00000096112|mitochondrial ATP synthase, coupling factor 6|mitochondrial ATP synthase, subunit F6|mitochondrial ATPase coupling factor 6|proliferation-inducing protein 36

## Pathway

- [Metabolic pathways](#)

- [Oxidative phosphorylation](#)

## Disease

- [Genetic Predisposition to Disease](#)
- [Prostatic Neoplasms](#)