

# Recombinant Full Length Human ATP5H Protein, GST-tagged

**Cat. No.** ATP5H-1122HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human ATP5H full-length ORF ( NP_006347.1, 1 a.a. - 161 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	161 amino acids
<b>Description</b>	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, Fo, 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 Fo seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene encodes the d subunit of the Fo complex. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. In addition, three pseudogenes are located on chromosomes 9, 12 and 15. [provided by RefSeq, Jun 2010]
<b>Molecular Mass</b>	44.9 kDa
<b>AA Sequence</b>	MAGRKLALKT IDWVAF AEII PQNQKAIASS LKSWNETLTS RLAALPENPP AIDWAYYKAN VAKAGLVDDF EKKFNALKVP VPEDKYTAQV DAEEKEDVKS CAEWVSLSKA RIVEYEKEME KMKNLIPFDQ MTIEDLNEAF PETKLDKCKY

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PYWPHQPIEN L

**Applications**

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

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**GENE INFORMATION**

**Gene Name**

[ATP5H ATP synthase, H<sup>+</sup> transporting, mitochondrial Fo complex, subunit d \[ Homo sapiens \]](#)

**Official Symbol**

[ATP5H](#)

**Synonyms**

ATP5H; ATP synthase, H<sup>+</sup> transporting, mitochondrial Fo complex, subunit d; ATP synthase, H<sup>+</sup> transporting, mitochondrial F0 complex, subunit d; ATP synthase subunit d, mitochondrial; ATP5JD; ATPQ; My032 protein; ATPase subunit d; ATP synthase D chain, mitochondrial; ATP synthase, H<sup>+</sup> transporting, mitochondrial F1F0, subunit d

**Gene ID**

[10476](#)

**mRNA Refseq**

[NM\\_001003785](#)

**Protein Refseq**

[NP\\_001003785](#)

**MIM**

[618121](#)

**UniProt ID**

[O75947](#)

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