

## Recombinant Human ATP5G3, GST-tagged

Cat. No. ATP5G3-10022H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human ATP5G3 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>	1-60a.a.
<b>Description</b>	<p>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 seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene is one of three genes that encode subunit c of the proton channel. Each of the three genes have distinct mitochondrial import sequences but encode the identical mature protein. Alternatively spliced transcript variants encoding different proteins have been identified.</p>
<b>Storage</b>	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

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**Storage Buffer** 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.

## GENE INFORMATION

**Gene Name** [ATP5G3](#) ATP synthase,H<sup>+</sup> transporting,mitochondrial Fo complex,subunit C3 (subunit 9) [ [Homo sapiens](#) ]

**Official Symbol** [ATP5G3](#)

**Synonyms** [AT5G3\\_HUMAN](#); ATP synthase H<sup>+</sup> transporting mitochondrial Fo complex subunit C3 (subunit 9); ATP synthase lipid binding protein mitochondrial; ATP synthase lipid-binding protein; ATP synthase mitochondrial C subunit 3; ATP synthase proteolipid P3; ATP synthase subunit 9; [ATP5G3](#); ATPase protein 9; ATPase subunit c; mitochondrial; P3; [ATP5G3](#)

**Gene ID** [518](#)

**mRNA Refseq** [NM\\_001689.4](#)

**Protein Refseq** [NP\\_001680.1](#)

**MIM** [602736](#)

**UniProt ID** [P48201](#)

**Chromosome Location** 2q31.1

**Pathway** [Alzheimers disease,organism-specific biosystem](#);[Alzheimers disease,conserved biosystem](#);[Electron Transport Chain,organism-specific biosystem](#);[F-type](#)

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ATPase,eukaryotes,organism-specific biosystem;Huntingtons disease,organism-specific biosystem;Huntingtons disease,conserved biosystem;Oxidative phosphorylation,organism-specific biosystem

**Function**

hydrogen ion transmembrane transporter activity;lipid binding;transporter activity

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