

## Recombinant Human ATP5J2, GST-tagged

**Cat. No.** ATP5J2-3720H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <b>Product Overview</b> | ATP synthase subunit f, mitochondrial (ATP5J2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | E.Coli/Yeast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | <p>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 catalytic portion of mitochondrial ATP synthase consists of five different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and single representatives of the gamma, delta, and epsilon subunits. The proton channel likely has nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene encodes the f subunit of the Fo complex. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. This gene has multiple pseudogenes. Naturally occurring read-through transcription also exists between this gene and the downstream pentatricopeptide repeat domain 1 (PTCD1) gene.</p> |
| <b>Form</b>             | This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>           | >90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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| <b>Notes</b>            | Small volumes of ATP5J2 recombinant protein may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container's cap. Certain products may require to ship with dry ice.                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage</b>          | Store at -20 degree C. For extended storage, store at -20 or -80 degree C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage Buffer</b>   | PBS pH 7.4, 50% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Warning</b>          | This product is for research use only. Not for use in diagnostic or therapeutic procedures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Gene Name</b>        | ATP5J2 ATP synthase, H <sup>+</sup> transporting, mitochondrial Fo complex, subunit F2 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Official Symbol</b>  | ATP5J2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Synonyms</b>         | ATP5J2; ATP synthase, H <sup>+</sup> transporting, mitochondrial Fo complex, subunit F2; ATP synthase, H <sup>+</sup> transporting, mitochondrial F0 complex, subunit f, isoform 2 , ATP synthase, H <sup>+</sup> transporting, mitochondrial F0 complex, subunit F2; ATP synthase subunit f, mitochondrial; ATP synthase f chain; mitochondrial; ATP5JL; F1Fo ATP synthase complex Fo membrane domain f subunit; F1Fo ATPase; F1Fo ATPase synthase f subunit; F1F0-type ATPase subunit f; F1Fo-ATPase synthase f subunit; ATP synthase f chain, mitochondrial; F1Fo-ATP synthase complex Fo membrane domain f subunit; ATP synthase, H <sup>+</sup> transporting, mitochondrial F0 complex, subunit f, isoform 2; |
| <b>Gene ID</b>          | 9551                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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| <b>mRNA Refseq</b>         | NM_001003713                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>      | NP_001003713                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>          | P56134                                                                                                                                                                                                                                                          |
| <b>Chromosome Location</b> | 7q22.1                                                                                                                                                                                                                                                          |
| <b>Pathway</b>             | Electron Transport Chain, organism-specific biosystem; F-type ATPase, eukaryotes, organism-specific biosystem; Formation of ATP by chemiosmotic coupling, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-sp |
| <b>Function</b>            | contributes_to ATPase activity; transmembrane transporter activity;                                                                                                                                                                                             |

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