# Recombinant Full Length Human ATP5A1 Protein, GST-tagged

**Cat. No.** ATP5A1-1338HF **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Human ATP5A1 full-length ORF ( NP_001001937.1, 1 a.a. - 553 a.a.) recombinant protein with GST-tag at N-terminal. |
| **Species** | Human |
| **Source** | In Vitro Cell Free System |
| **ProteinLength** | 553 amino acids |
| **Description** | This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, using 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 alpha subunit of the catalytic core. Alternatively spliced transcript variants encoding the different isoforms have been identified. Pseudogenes of this gene are located on chromosomes 9, 2, and 16. [provided by RefSeq, Mar 2012] |
| **Molecular Mass** | 86.2 kDa |
| **AA Sequence** | MLSVRVAAAV VRALPRRAGL VSRNALGSSF IAARNFHASN THLQKTGTAE |

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| | MSSILEERIL GADTSVDLEE TGRVLSIGDG IARVHGLRNV QAEEMVEFSS GLKGMSLNLE PDNVGVVVFG NDKLIKEGDI VKRTGAIVDV PVGEELLGRV VDALGNAIDG KGPIGSKTRR RVGLKAPGII PRISVREPMQ TGIKAVDSLV PIGRGQRELI IGDRQTGKTS IAIDTIINQK RFNDGSDEKK KLYCIYVAIG QKRSTVAQLV KRLTDADAMK YTIVVSATAS DAAPLQYLAP YSGCSMGEYF RDNGKHALII YDDLSKQAVA YRQMSLLLRR PPGREAYPGD VFYLHSRLLE RAAKMNDAFG GGSLTALPVI ETQAGDVSAY IPTNVISITD GQIFLETELF YKGIRPAINV GLSVSRVGSA AQTRAMKQVA GTMKLELAQY REVAAFAQFG SDLDAATQQL LSRGVRLTEL LKQGQYSPMA IEEQVAVIYA GVRGYLDKLE PSKITKFENA FLSHVVSQHQ ALLGTIRADG KISEQSDAKL KEIVTNFLAG FEA |
| **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

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| **Gene Name** | ATP5A1 ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle [ Homo sapiens ] |
| **Official Symbol** | ATP5A1 |
| **Synonyms** | ATP5A1; ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle; ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit, isoform 1, cardiac muscle , ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit, isoform 2, non cardiac muscle like 2 , ATP5AL2, ATPM; ATP synthase subunit alpha, mitochondrial; ATP5A; hATP1; OMR; ORM; ATP sythase |

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| | (F1-ATPase) alpha subunit; ATP synthase alpha chain, mitochondrial; mitochondrial ATP synthetase, oligomycin-resistant; ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit, isoform 1, cardiac muscle; ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit, isoform 2, non-cardiac muscle-like 2; ATPM; MOM2; ATP5AL2 |
| **Gene ID** | 498 |
| **mRNA Refseq** | NM_001001935 |
| **Protein Refseq** | NP_001001935 |
| **MIM** | 164360 |
| **UniProt ID** | P25705 |

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