

Product datasheet for **TP314840M**

ATP5A (ATP5A1) (NM_004046) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human ATP synthase, H⁺ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle (ATP5A1), nuclear gene encoding mitochondrial protein, transcript vari, 100 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC214840 representing NM_004046
Red=Cloning site Green=Tags(s)

MLSVRVAAAVRALPRRAGLVSARNALGSSFIAARNFHASNTHLQKTGTAEMSSILEERILGADTSVDLEE
TGRVLSIGDGIARVHGLRNVQAEEMVEFSSGLKGMSLNLEPDNVGVVWFGNDKLIKEGDIVKRTGAIVDV
PVGEELLGRVWDALGNAIDGKGPISKTRRRVGLKAPGIIIPRISVREPMQTGIKAVDSLVPPIGRGQRELI
IGDRQTGKTSIAIDTIINQKRFNDGSDEKKKLYCIYVAIGQKRSTVAQLVKRLTDADAMKYTIVVSATAS
DAAPLQYLAPYSGCSMGEYFRDNGKHALIYDDLSKQAVAYRQMSLLRRPPGREAYPGDVFYLSRLLLE
RAAKMNDAFGGSLTALPVIETQAGDVSAYIPTNVISITDGGQIFLETIFYKIRPAINVGLSVSRVGS
AQTRAMKQVAGTMKLELAQYREVAFAQFGSDLAATQQLSRGVRLTELLKQGQYSPMAIEEQVAVIYA
GVRGYLDKLEPSKITKFENAFLSHVVSQHQALLGTIRADGKISEQSDAKLKEIVTNFLAGFEA

SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 55.2 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

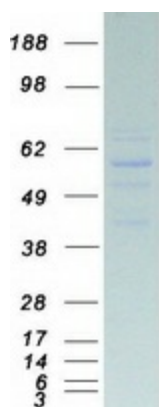
Storage: Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_004037
Locus ID:	498
UniProt ID:	P25705 , V9HW26
RefSeq Size:	1895
Cytogenetics:	18q21.1
RefSeq ORF:	1659
Synonyms:	ATP5A; ATP5A1; ATP5AL2; ATPM; COXPD22; hATP1; HEL-S-123m; MC5DN4; MOM2; OMR; ORM
Summary:	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]
Protein Families:	Druggable Genome
Protein Pathways:	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

Product images:



Coomassie blue staining of purified ATP5F1A protein (Cat# [TP314840]). The protein was produced from HEK293T cells transfected with ATP5F1A cDNA clone (Cat# [RC214840]) using MegaTran 2.0 (Cat# [TT210002]).