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Product Information

MemDX™ Membrane Protein Human ATP5F1A (ATP synthase F1 subunit alpha) Full Length

Cat. No.: **MPC1445K**
This product is for research use only and is not intended for diagnostic use.

This product is a 59.7 kDa Human ATP5F1A membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
ATP5F1A

Protein Length
Full length

Protein Class
Transporter

Molecular Weight
59.7 kDa

Sequence
MLSVRVAAAVVRALPRRAGLVSRNALGSSFIAARNFHASNTHLQKTGTAE
MSSILEERILGADTSVDLEETGRVLSIGDGIARVHGLRNVQAEEMVEFSS
GLKGMSLNLEPDNVGVVVFGNDKLIKEGDIVKRTGAIVDVPVGEELLGRV
VDALGNAIDGKGPIGSKTRRRVGLKAPGIIPRISVREPMQTGIKAVDSLV
PIGRGQRELIIGDRQTGKTSIAIDTIINQKRFNDGSDEKKKLYCIYVAIG
QKRSTVAQLVKRLTDADAMKYTIVVSATASDAAPLQYLAPYSGCSMGEYF
RDNGKHALIIYDDLSKQAVAYRQMSLLLRRPPGREAYPGDVFYLHSRLLE
RAAKMNDAFGGGSLTALPVIETQAGDVSAYIPTNVISITDGQIFLETELF
YKGIRPAINVGLSVSRVGSAAQTRAMKQVAGTMKLELAQYREVAAFAQFG
SDLDAATQQLLSRGVRLTELLKQGQYSPMAIEEQVAVIYAGVRGYLDKLE
PSKITKFENAFLSHVVSQHQALLGTIRADGKISEQSDAKLKEIVTNFLAG
FEA

Product Description

Expression Systems
HEK293

Tag
Based on specific requirements

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Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

ATP5F1A

Full Name

ATP synthase F1 subunit alpha

Introduction

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.

Alternative Names

ATP5F1A; OMR; ORM; ATPM; MOM2; ATP5A; hATP1; ATP5A1; MC5DN4; ATP5AL2; COXPD22; HEL-S-123m; ATP synthase subunit alpha, mitochondrial; ATP synthase alpha chain, mitochondrial; ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle; ATP sythase (F1-ATPase) alpha subunit; epididymis secretory sperm binding protein Li 123m; mitochondrial ATP synthetase, oligomycin-resistant; ATP synthase F1 subunit alpha

Gene ID

498

UniProt ID

P25705

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