

Product Information

MemDX™ Membrane Protein Human ATP5MC3 (ATP synthase membrane subunit c locus 3)

Full Length

Cat. No.: **MPC2719K**

This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human ATP5MC3 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

ATP5MC3

Protein Length

Full length

Protein Class

Transporter

TMD

2

Sequence

MFACAKLACTPSLIRAGSRVAYRPISASVLSRPEASRTGEGSTVFNGAQN
GVSQLIQREFQTSAISRDIIDTAAKFIGAGAATVGVAGSGAGIGTVFGSLI
IGYARNPSLKQQLFSYAILGFALSEAMGLFCLMVAFLILFAM

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

ATP5MC3

Full Name

ATP synthase membrane subunit c locus 3

Introduction

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.

Alternative Names

ATP5MC3; P3; ATP5G3; ATP synthase F(0) complex subunit C3, mitochondrial; ATP synthase lipid-binding protein, mitochondrial; ATP synthase proteolipid P3; ATP synthase proton-transporting mitochondrial F(0) complex subunit C3; ATP synthase subunit 9; ATP synthase, H⁺ transporting, mitochondrial F0 complex, subunit C3 (subunit 9); ATP synthase, H⁺ transporting, mitochondrial Fo complex subunit C3 (subunit 9); ATP synthase, mitochondrial, C subunit-3; ATPase protein 9; ATPase subunit C; dicyclohexylcarbodiimide (DCCD)-reactive proteolipid subunit; ATP synthase membrane subunit c locus 3

Gene ID

[518](#)

UniProt ID

[P48201](#)