

# Product Information

## MemDX™ Membrane Protein Human NDUFS4 (NADH:ubiquinone oxidoreductase subunit S4) for Antibody Discovery

Cat. No.: **MP0782X**

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

This product is a 44.99 kDa Human NDUFS4 membrane protein expressed in *in vitro* wheat germ expression system. 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

NDUFS4

#### Protein Length

Full-length

#### Molecular Weight

44.99 kDa

#### Sequence

MAAVSMSVVLRLQTLWRRRAVAVAALSVSRVPTRSLRTSSWRLAQDQTQDTQLITVDEKLDITTLTGVP EEHIKTRKVRIFVPARNNM

### Product Description

#### Application

Enzyme-linked Immunoabsorbent Assay, Western Blot (Recombinant protein), Antibody Production, Protein Array

#### Expression Systems

*in vitro* wheat germ expression system

#### Tag

GST-tag at N-terminal

#### Form

Liquid

#### Purification

Glutathione Sepharose 4 Fast Flow

#### Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer

### Storage

Store at +4°C for up to one week or several months at -80°C

### Target

#### Target Protein

NDUFS4

#### Full Name

NADH:ubiquinol oxidoreductase subunit S4

#### Introduction

This gene encodes a nuclear-encoded accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (complex I, or NADH:ubiquinol oxidoreductase). Complex I removes electrons from NADH and passes them to the electron acceptor ubiquinone. Mutations in this gene can cause mitochondrial complex I deficiencies such as Leigh syndrome. Alternative splicing results in multiple transcript variants.

#### Alternative Names

AQDQ; CI-18; MC1DN1; CI-AQDQ; CI-18 kDa; NADH dehydrogenase [ubiquinone] iron-sulfur protein 4, mitochondrial; NADH dehydrogenase (ubiquinone) Fe-S protein 4, 18kDa (NADH-coenzyme Q reductase); NADH-ubiquinone oxidoreductase 18 kDa subunit; complex I 18kDa subunit; complex I-AQDQ; mitochondrial respiratory chain complex I (18-KD subunit); CI-AQDQ; NADH-ubiquinone oxidoreductase 18 kDa subunit

#### Gene ID

[4724](#)

#### UniProt ID

[O43181](#)