SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-416-1478 Fax: 1-631-207-8356
Email: info@creative-biolabs.com
www.creative-biolabs.com

# Product Information

## MemDX™ Membrane Protein Mouse Abcd4 (ATP-binding cassette, sub-family D (ALD), member 4) Expressed *in vitro E.coli* expression system, Full Length

Cat. No.: **MPX2597K**
This product is for research use only and is not intended for diagnostic use.

This product is a Mouse Abcd4 membrane protein expressed *in vitro E.coli* 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**
Mouse

**Target Protein**
Abcd4

**Protein Length**
Full Length

**Protein Class**
Transport

**TMD**
5

**Sequence**
MAVPGPTARAGARPRLDLQLVQRFVRIQKVFFPSWSSQNVLMFMTLLCVTLLEQLVIYQVGLIPSQYYGVLGNKDLDGFKALTLLAV

## Product Description

**Expression Systems**
*in vitro E.coli* expression system

**Tag**
10xHis tag at the N-terminus

**Protein Format**
Soluble

**Form**
Liquid or Lyophilized powder

**Buffer**

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

### 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

Abcd4

### Full Name

ATP-binding cassette, sub-family D (ALD), member 4

### Introduction

The membrane-associated protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the ALD subfamily, which is involved in peroxisomal import of fatty acids and/or fatty acyl-CoAs in the organelle. All known peroxisomal ABC transporters are half transporters which require a partner half transporter molecule to form a functional homodimeric or heterodimeric transporter. The function of this peroxisomal membrane protein is unknown. However, it is speculated that the human protein may function as a heterodimer for another peroxisomal ABC transporter and, therefore, may modify the adrenoleukodystrophy phenotype. It may also play a role in the process of peroxisome biogenesis.

### Alternative Names

Abcd4; P6; Pxm; P69r; P70R; Pxmp1l; lysosomal cobalamin transporter ABCD4; ATP-binding cassette sub-family D member 4; PMP69; PMP70-related protein; PXMP1-L; peroxisomal membrane protein 69; peroxisomal membrane protein, 70 kDa-related; ATP-binding cassette, sub-family D (ALD), member 4

### Gene ID

19300

### UniProt ID

O89016

SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-416-1478 Fax: 1-631-207-8356
Email: info@creative-biolabs.com