

# Product Information

## **MemDX™ Membrane Protein Human AWAT2 (Acyl-CoA wax alcohol acyltransferase 2)**

### **Expressed *in vitro* E.coli expression system, Full Length**

Cat. No.: **MPX1657K**

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

This product is a Human AWAT2 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**

Human

#### **Target Protein**

AWAT2

#### **Protein Length**

Full Length

#### **Protein Class**

Transferase

#### **TMD**

3

#### **Sequence**

MLLP SKKDLKTALDVFQWSFSALLITTTVIAVNLYLVVFTPYWPVTVLILTWLAFDWKTPQRGGRRFTCVRHWRLWKHYSDYFF

### **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

AWAT2

#### Full Name

Acyl-CoA wax alcohol acyltransferase 2

#### Introduction

This gene encodes an enzyme belonging to the diacylglycerol acyltransferase family. This enzyme produces wax esters by the esterification of long chain (or wax) alcohols with acyl-CoA-derived fatty acids. It functions in lipid metabolism in the skin, mostly in undifferentiated peripheral sebocytes. This enzyme may also have acyl-CoA:retinol acyltransferase activities, where it catalyzes the synthesis of diacylglycerols and retinyl esters.

#### Alternative Names

AWAT2; WS; DC4; ARAT; MFAT; DGAT2L4; 11-cis-RE-synthase; 11-cis-specific retinyl-ester synthase; acyl-CoA retinol O-fatty-acyltransferase; diacylglycerol O-acyltransferase 2-like protein 4; diacylglycerol O-acyltransferase candidate 4; long-chain-alcohol O-fatty-acyltransferase 2; multifunctional O-acyltransferase; retinol O-fatty-acyltransferase; Acyl-CoA wax alcohol acyltransferase 2

#### Gene ID

[158835](#)

#### UniProt ID

[Q6E213](#)