

# Product Information

## **MemDX™ Membrane Protein Human CATSPER1 (Cation channel sperm associated 1)**

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

Cat. No.: **MPX2877K**

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

This product is a Human CATSPER1 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**

CATSPER1

#### **Protein Length**

Full Length

#### **Protein Class**

Ion channel, Transport

#### **TMD**

6

#### **Sequence**

MDQNSVPEKAQNEADTNNADRFRRSHSSPPHHRPGHSRALHHYELHHHGVPHQRGESHHPPEFQDFHDQALSSHVHQSHHHSE

### **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

CATSPER1

#### Full Name

Cation channel sperm associated 1

#### Introduction

Calcium ions play a primary role in the regulation of sperm motility. This gene belongs to a family of putative cation channels that are specific to spermatozoa and localize to the flagellum. The protein family features a single repeat with six membrane-spanning segments and a predicted calcium-selective pore region.

#### Alternative Names

CATSPER1; SPGF7; CATSPER; hCatSper; sperm ion channel; sperm-associated cation channel 1; Cation channel sperm associated 1

#### Gene ID

[117144](#)

#### UniProt ID

[Q8NEC5](#)