

# Product Information

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

Cat. No.: **MPC0447K**

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

This product is a 90 kDa Human CATSPER1 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

CATSPER1

#### Protein Length

Full length

#### Protein Class

Transporter; Ion channel

#### Molecular Weight

90 kDa

#### TMD

6

#### Sequence

MDQNSVPEKAQNEADTNNADRRFFRS SHSSPPHHRPGHSRALHHYELHHHG  
VPHQRGESHHPPPEFQDFHDQALSSHVHQSHHHSEARNHGRAHGPTGFGLAP  
SQGAVPSHRSYGEDYHDELQRDGRRHHDGSQYGGFHQQSDSHYHRGSHHG  
RPQYLGENLSHYSSGVPHHGEASHHGGSYLPHGPNPYSESFHHSEASHLS  
GLQHDESQHHQVPHRGWPHHHQVHHHGRSRHHEAHQHKGKSPHHGETISPH  
SSVGSYQRGISDYHSEYHQGDHHPSEYHHGDHPHHTQH HHYHQTHRHRDYH  
QHGDHHGAYHSSYLHG DYVQSTS QLSIPHTSRSLIHDAPGPAASRTGVFP  
YHVAHPRGSAHSMTRSSSTIRSRVTQMSKKVHTQDISTKHSEDWGKEEGQ  
FQKRKTGRLQRTRKKGHSTNLFQWLWEKLTFLIQGFREMIRNLTQSLAFE  
TFIFFVCLNTVMLVAQTFAEVEIRGEWYFMALDSIFFCIYVVEALLKII  
ALGLSYFFDFWNNLDFIMAMAVLDFLLMQTHSFAIYHQSLFRILKVFKS  
LRALRAIRVLRRLSFLT SVQEVGTGLGQSLPSIAAILMFTCLFLFSAV  
LRALFRKSDPKRFQNIFFTITLFTLLTDDWSLIYMDSRAQGAWYIPI  
LVYIIIIQYFIFLNLVITVLVDSFQTALFKGLEKAKQERAARIQEKLLED  
SLTELRAAEPKEVASEGTMKRLIEKKFGTMTEKQQELLFHYLQLVASVE  
QEQQKFRSQAAVIDEIVDTT FEAGEEDFRN

## Product Description

### Expression Systems

HEK293

### Tag

Based on specific requirements

### Protein Format

Detergent or based on specific requirements

### Form

Liquid

### 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

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

### Gene ID

[117144](#)

### UniProt ID

[Q8NEC5](#)