

# Product Information

## MemDX™ Membrane Protein Human CLDN4 (Claudin 4) Full Length

Cat. No.: **MPC0491K**

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

This product is a 22 kDa Human CLDN4 membrane protein expressed in Baculovirus/Insect 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

CLDN4

#### Protein Length

Full length

#### Protein Class

Transporter; Ion channel

#### Molecular Weight

22 kDa

#### TMD

4

#### Sequence

MASMGVLQVMGIALAVLGWLAVMLCCALPMWRVTAFIGSNIVTSQTIWEGL  
WMNCVVQSTGQMCKVYDSLLALPQDLQAARALVIISIIVAALGVLLSVV  
GGKCTNCLEDESAKAKTMIVAGVVFLLAGLMVIVPVSHTAHNIIQDFYNP  
LVASGQKREMGASLYVGWAASGLLLLGGGLCCNCPPRTDKPYSKYSAA  
RSAAASNYV

### Product Description

#### Expression Systems

Baculovirus/Insect expression system

#### 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**

CLDN4

**Full Name**

Claudin 4

**Introduction**

The protein encoded by this intronless gene belongs to the claudin family. Claudins are integral membrane proteins that are components of the epithelial cell tight junctions, which regulate movement of solutes and ions through the paracellular space. This protein is a high-affinity receptor for Clostridium perfringens enterotoxin (CPE) and may play a role in internal organ development and function during pre- and postnatal life. This gene is deleted in Williams-Beuren syndrome, a neurodevelopmental disorder affecting multiple systems.

**Alternative Names**

CPE-R; CPE-R; CPETR; CPETR1; WBSCR8; hCPE-R; claudin-4; CPE-receptor; Clostridium perfringens enterotoxin receptor 1; Williams-Beuren syndrome chromosomal region 8 protein; CLDN4; Claudin 4

**Gene ID**

[1364](#)

**UniProt ID**

[Q14493](#)