

# Product Information

## MemDX™ Membrane Protein Human CLDN1 (Claudin 1) Expressed *in vitro* *E.coli* expression system, Full Length

Cat. No.: **MPX2207K**

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

This product is a Human CLDN1 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

CLDN1

#### Protein Length

Full Length

#### Protein Class

Receptor

#### TMD

4

#### Sequence

MANAGLQLLGFI~~LA~~FLGWIGAIVSTALPQWRIYSYAGDNIVTAQAMYEG~~LW~~MSCVSQSTGQIQCKVFD~~SL~~LNLSSTLQATRALMVVG

### 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

CLDN1

#### Full Name

Claudin 1

#### Introduction

Tight junctions represent one mode of cell-to-cell adhesion in epithelial or endothelial cell sheets, forming continuous seals around cells and serving as a physical barrier to prevent solutes and water from passing freely through the paracellular space. These junctions are comprised of sets of continuous networking strands in the outwardly facing cytoplasmic leaflet, with complementary grooves in the inwardly facing extracytoplasmic leaflet. The protein encoded by this gene, a member of the claudin family, is an integral membrane protein and a component of tight junction strands. Loss of function mutations result in neonatal ichthyosis-sclerosing cholangitis syndrome.

#### Alternative Names

CLDN1; CLD1; SEMP1; ILVASC; senescence-associated epithelial membrane protein 1; Claudin 1

#### Gene ID

[9076](#)

#### UniProt ID

[O95832](#)