

# Product Information

## MemDX™ Human CLDN6 HEK293T Cell Line

Cat. No.: **S01YF-0123-KX117**

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

### Product Information

#### Target Protein

CLDN6

#### Target Protein Species

Human

#### Accession Number

NM\_021195.5

#### Protein Tag

Tag-free

#### Host Cell Type

HEK293T

#### Target Classification

Others

#### Target Family

Others

#### Target Research Area

Infectious Research

#### Related Diseases

Hepatitis C Virus

### Product Properties

#### Morphology

Epithelial

#### Assay Types

Drug screening and biological assays

#### Resistance

Puromycin

#### Mycoplasma Testing

Negative

### **Sterility Testing**

10 passages

### **Biosafety Level**

Level 1

### **Activity**

Yes

### **Quantity**

5x10<sup>6</sup> cells

### **Form**

Frozen cells

### **Freeze Medium**

70% DMEM + 20% FBS + 10% DMSO

### **Culture Medium**

DMEM + 10% FBS + 1µg/mL Puromycin

### **Selective Antibiotic(s)**

Regular antibiotics active against mycoplasmas, bacteria and fungi.

### **Handling Notes**

Frozen cells should be thawed immediately upon receipt and grown according to handling procedure to ensure cell viability and proper assay performance.

Note: Do not freeze the cells upon receipt as it may result in irreversible damage to the cell line.

Disclaimer: We cannot guarantee cell viability if the cells are not thawed immediately upon receipt and grown according to handling procedure.

### **Incubation**

37°C with 5% CO<sub>2</sub>

### **Applications**

Drug screening and biological assays

### **Application Notes**

Cells were plated in a 384-well plate and incubated overnight at 37°C and 5% CO<sub>2</sub> to allow the cells to attach and grow. Cells were then stimulated with a control for high-throughput drugs screening and functional assays.

### **Use Restrictions**

These cells are distributed for research use only.

### **Shipping**

Dry ice

### **Storage**

Liquid nitrogen

### **Target**

### **Full Name**

## Claudin 6

### 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. This gene encodes a component of tight junction strands, which is a member of the claudin family. The protein is an integral membrane protein and is one of the entry cofactors for hepatitis C virus. The gene methylation may be involved in esophageal tumorigenesis. This gene is adjacent to another family member CLDN9 on chromosome 16.

### Alternative Names

CLDN6; claudin-6; skullin; Claudin 6

### Gene ID

[9074](#)

### UniProt ID

[P56747](#)