

# HEK293-CLDN18.2 | 305986

## HEK293-CLDN18.2

**Description**

HEK293-CLDN18.2 is a HEK293 cell line stably expressing the human CLDN18.2 protein. The cells are derived from HEK293 cells (HEK293) and express the CLDN18.2 protein at a high level. The cells are maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 100 ng/ml insulin, transferrin, and selenium (ITS). The cells are typically grown in 96-well plates at a density of 10,000 cells per well. The cells are used for various applications, including protein production, cell-based assays, and drug screening.

**Organism**      Human

**Tissue**            Kidney

## HEK293-CLDN18.2

**Age**                1-6, 25

**Gender**            Male

**Morphology**      Epithelial

**Growth properties**      Adherent, suspension

## HEK293-CLDN18.2

**Citation**            HEK293-CLDN18.2 (HEK293-CLDN18.2) Cytion: 305986

**Biosafety level**      1

**NCBI\_TaxID**        9606

**CellosaurusAccession**      CVCL\_E5J2

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<b>Receptors expressed</b>	CDLN18.2
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HEK293

<b>Culture Medium</b>	RPMI 1640, w: 2.0 mM $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$ , w: 2.0 g/L $\text{NaHCO}_3$ (Cytion 820700a)
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<b>Supplements</b>	10% FBS, 1 mM $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$ , 10 mM HEPES, 1% NEAA. Geneticin (G418-Sulfat) 1 mg/ml
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<b>Dissociation Reagent</b>	EDTA
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<b>Subculturing</b>	Cells are cultured in RPMI 1640 medium supplemented with 10% FBS, 1 mM $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$ , 10 mM HEPES, 1% NEAA, and Geneticin (G418-Sulfat) 1 mg/ml. Cells are passaged using Trypsin-EDTA into fresh medium.
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<b>Fluid renewal</b>	2-3 times per week
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<b>Post-Thaw Recovery</b>	After thawing, cells are seeded into T25 flasks in fresh medium. Media is replaced after 24 hours. Cells are passaged after 70% confluency.
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<b>Freeze medium</b>	Cells are harvested and resuspended in freezing medium (10% FBS + 10% DMSO) for storage at $-80^\circ\text{C}$ .
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- Thawing and Culturing Cells**
- Thaw the vial in a water bath at  $37^\circ\text{C}$ .
  - Centrifuge at  $300 \times g$  for 3 minutes.
  - Remove the supernatant and wash the cells with PBS.
  - Resuspend the cells in fresh medium and seed into a T25 flask.
  - Allow cells to recover for 24 hours.
  - Passage cells when they reach 70-80% confluency.
  - Use cells for experiments or store them.
  - Freeze cells in freezing medium for long-term storage.

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**Incubation Atmosphere** 37°C, 5% CO<sub>2</sub>,  $\text{O}_2$  5%

**Shipping Conditions**  $-78^\circ\text{C}$

**Storage Conditions**  $-150$   $196$

**HLA**

**Sterility**