

Product Sheet

H_CLDN6 MC38 Cell Line

Catalog number: GM-C41723

Version 3.3.1.260126

Description	H_CLDN6 MC38 Cell Line is a clonal stable MC38 cell line that constitutively expresses the Human CLDN6 gene, constructed using lentiviral technology.
Quantity	5E6 Cells per vial, 1 mL
Product Format	1 vial of frozen cells
Shipping	Shipped on dry ice
Storage Conditions	Liquid nitrogen immediately upon receipt
Target	Human_CLDN6
Gene ID/Uniprot ID	P56747
Host Cell	MC38
Recovery Medium	DMEM+10% FBS+1% P.S
Growth medium	DMEM+10% FBS+1% P.S+2.5 µg/mL Puromycin
Note	None
Freezing Medium	90% FBS+10% DMSO
Growth properties	Adherent
Growth Conditions	37°C, 5% CO ₂
Mycoplasma Testing	The cell line has been screened to confirm the absence of Mycoplasma species.
Safety considerations	Biosafety Level 2
Note	It is recommended to expand the cell culture and store a minimum of 10 vials at an early passage for potential future use.

Materials

Reagent	Manufacturer/Catalogue No.
DMEM	Gibco/C11995500BT
Fetal Bovine Serum	ExCell/FSP500
Pen/Strep	Thermo/15140-122
Puromycin	Genomeditech/ GM-040401
Anti-Claudin6 hIgG1 Reference Antibody	Genomeditech/ GM-86863MAB

Figures

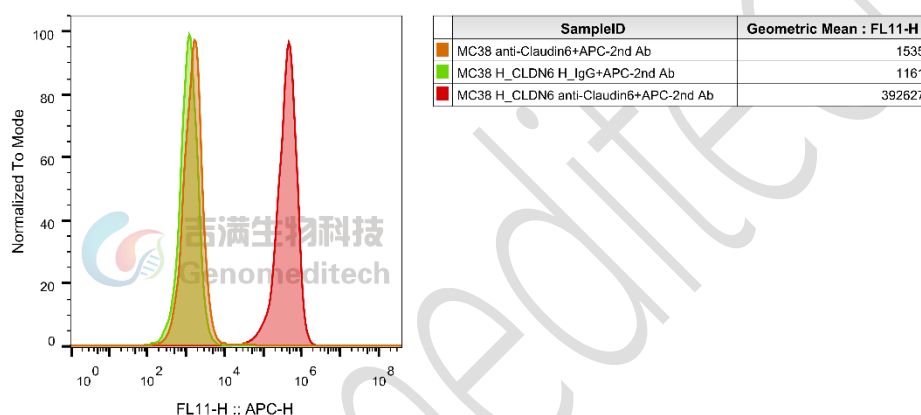


Figure 1 | H_CLDN6 MC38 Cell Line (Cat. GM-C41723) was determined by flow cytometry using Anti-Claudin6 hIgG1 Reference Antibody (Cat. [GM-86863MAB](#)).

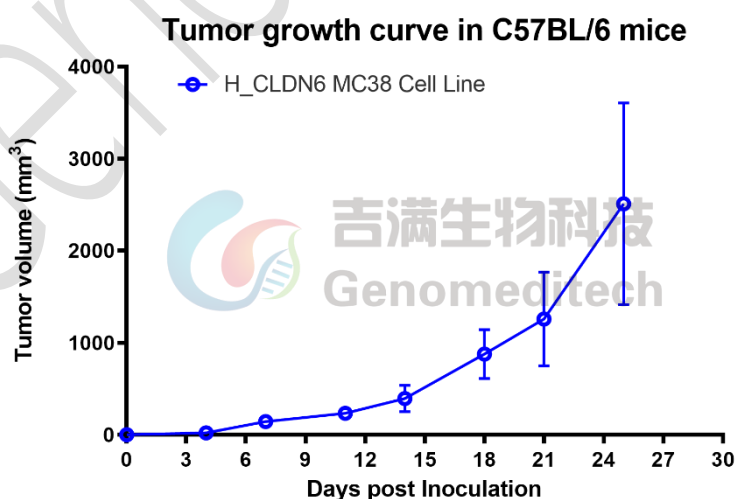


Figure 2 | Tumor growth curves of H_CLDN6 MC38 in C57BL/6 mice. H_CLDN6 MC38 cells (1×10^6 per mouse) were subcutaneously inoculated into C57BL/6 mice (female, 8 weeks old, $n = 3$). Tumor volume was measured twice per week and is presented as mean \pm SEM.

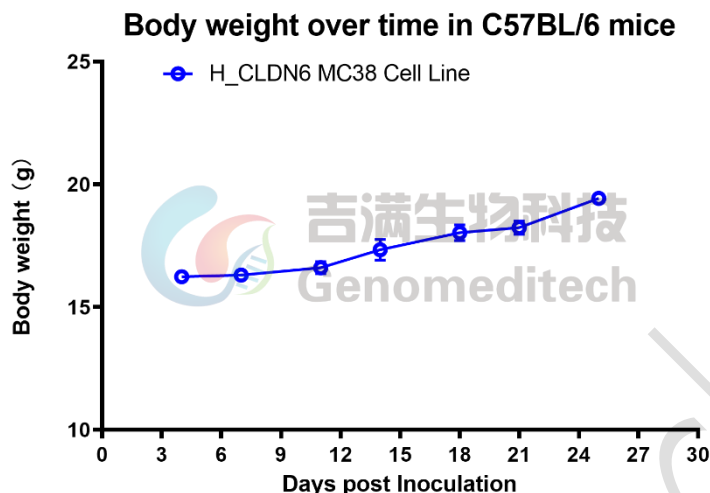


Figure 3 | Body weight changes after implantation of H_CLDN6 MC38 in C57BL/6 mice. Under the same conditions, body weight was measured twice per week and is presented as mean \pm SEM.

Cell Recovery

Recovery Medium: DMEM+10% FBS+1% P.S

To insure the highest level of viability, thaw the vial and initiate the culture as soon as possible upon receipt. If upon arrival, continued storage of the frozen culture is necessary, it should be stored in liquid nitrogen vapor phase and not at -70°C . Storage at -70°C will result in loss of viability.

- Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the O-ring and cap out of the water. Thawing should be rapid (approximately 2 - 3 minutes).
- Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by dipping in or spraying with 70% ethanol. All of the operations from this point on should be carried out under strict aseptic conditions.
- Transfer the vial contents to a centrifuge tube containing 5.0 mL complete culture medium and spin at approximately $176 \times g$ for 5 minutes. Discard supernatant.
- Resuspend cell pellet with the recommended recovery medium. And dispense into appropriate culture dishes.
- Incubate the culture at 37°C in a suitable incubator. A 5% CO_2 in air atmosphere is recommended if using the medium described on this product sheet.

Cell Freezing

Freezing Medium: 90% FBS+10% DMSO

- Centrifuge at $176 \times g$ for 3 minutes to collect cells.
- Resuspend the cells in pre-cooled freezing medium and adjust the cell density to 5×10^6 cells/mL.
- Aliquot 1 mL into each vial.

- d) Place the vial in a controlled-rate freezing container and store at -80°C for at least 1 day, then transfer to liquid nitrogen as soon as possible.

Cell passage

Growth medium: DMEM+10% FBS+1% P.S+2.5 µg/mL Puromycin

For the first 1 to 2 passages post-resuscitation, use the recovery medium. Once the cells have stabilized, switch to a growth medium.

- Remove and discard culture medium.
- Briefly rinse the cell layer with PBS to remove all traces of serum that contains trypsin inhibitor.
- Add 1.0 mL of 0.25% (w/v) Trypsin-EDTA solution to dish and observe cells under an inverted microscope until cell layer is dispersed (usually within 30 to 60 seconds at 37°C).
- Note: To avoid clumping do not agitate the cells by hitting or shaking the flask while waiting for the cells to detach. Cells that are difficult to detach may be placed at 37°C to facilitate dispersal.
- Add 2.0 mL of growth medium to mix well and aspirate cells by gently pipetting.
- After centrifugation, resuspend the pellet and add appropriate aliquots of the cell suspension to new culture vessels.
- Incubate cultures at 37°C.

Subcultivation Ratio: A subcultivation ratio of 1:4 - 1:5 is recommended

Medium Renewal: Every 2 to 3 days

Notes

- After the stabilization of the cell condition, there will be fewer dead cells post-passage, the cell growth rate will tend to stabilize, cell morphology will become uniform, and the cells will appear robust.

Sequence

CLDN6 [P56747](#)

MASAGMQILGVVLTLLGWVNGLVSCALPMWKVTAFIGNSIVVAQVVWEGLWMSCVVQSTGQMCKVYD
SLLALPQDLQAARALCVIALLLVALFGLLVYLAGAKCTTCVEEKDSKARLVLTSGIVFVISGVLTLIPVCWTAH
AIIRDFYNPLVAEAQKRELGLASLYLGWAASGLLLLGGLLCCTCPSGGSQGPSHYMARYSTSAPAIIRGPSEY
PTKNYV

Related Products

CLDN18	
Cynomolgus_CLDN18.2-eGFP CHO-K1 Cell Line	H_CLDN18(isoform2)-eGFP 293 Cell Line
H_CLDN18.1-eGFP HEK-293 Cell Line	H_CLDN18.2 MC38 Cell Line
H_CLDN18.2 MKN45 Cell Line(High Expression)	H_CLDN18.2 MKN45 Cell Line(Low Expression)
H_CLDN18.2 MKN45 Cell Line(Medium Expression)	H_CLDN18.2(isoform2) CHO-K1 Cell Line
H_CLDN18.2-eGFP CT-26 Cell Line	Mouse_CLDN18.2-eGFP CHO-K1 Cell Line

Rat_CLDN18.2-eGFP CHO-K1 Cell Line	Rhesus_CLDN18.2-eGFP CHO-K1 Cell Line
Anti-CLDN18.2 hIgG1 Reference Antibody (IMAB362)	Anti-CLDN18.2 hIgG1 Antibody(LM-102)
Anti-CLDN18.2 hIgG1 Antibody(Zolbetuximab)	
CLDN3	
H_CLDN3 HEK-293 Cell Line	
Anti-CLDN3 hIgG1 Antibody(H4G3)	
CLDN4	
H_CLDN4 HEK-293 Cell Line	
Anti-CLDN4 hIgG1 Antibody(4B8)	
CLDN6	
Cynomolgus_CLDN6 CHO-K1 Cell Line	H_CLDN6 CHO-K1 Cell Line
H_CLDN6 HEK-293 Cell Line	H_CLDN6 LLC1 Cell Line
Mouse_CLDN6 CHO-K1 Cell Line	Rat_CLDN6 CHO-K1 Cell Line
Rhesus_CLDN6 CHO-K1 Cell Line	
Anti-Claudin6 hIgG1 Reference Antibody	Anti-CLDN6/9 hIgG1 Antibody
CLDN9	
H_CLDN9 CHO-K1 Cell Line	H_CLDN9-eGFP HEK-293 Cell Line
CLDN1	
Cynomolgus_CLDN1 CHO-K1 Cell Line	H_CLDN1 CHO-K1 Cell Line
H_CLDN1 HCT116 Cell Line	Mouse_CLDN1-GFP CHO-K1 Cell Line
Anti-CLDN1 hIgG1 Reference Antibody (Lixubio)	

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