

# Product Sheet

## H\_TM4SF1 MC38 Cell Line

Catalog number: GM-C31426

Version 3.3.1.260126

<b>Description</b>	H_TM4SF1 MC38 Cell Line is a clonal stable MC38 cell line that constitutively expresses the human TM4SF1 gene, constructed using lentiviral technology.
<b>Quantity</b>	5E6 Cells per vial, 1 mL
<b>Product Format</b>	1 vial of frozen cells
<b>Shipping</b>	Shipped on dry ice
<b>Storage Conditions</b>	Liquid nitrogen immediately upon receipt
<b>Target</b>	Human_TM4SF1
<b>Gene ID/Uniprot ID</b>	P30408
<b>Host Cell</b>	MC38
<b>Recovery Medium</b>	DMEM+10% FBS+1% P.S
<b>Growth medium</b>	DMEM+10% FBS+1% P.S+2.5 µg/mL Puromycin
<b>Note</b>	None
<b>Freezing Medium</b>	90% FBS+10% DMSO
<b>Growth properties</b>	Adherent
<b>Growth Conditions</b>	37°C, 5% CO <sub>2</sub>
<b>Mycoplasma Testing</b>	The cell line has been screened to confirm the absence of Mycoplasma species.
<b>Safety considerations</b>	Biosafety Level 2
<b>Note</b>	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	VivaCell/C3110-0500
Fetal Bovine Serum	ExCell/FSP500
Pen/Strep	Thermo/15140-122
Puromycin	Genomeditech/GM-040401
Anti-TM4SF1 hIgG1 Antibody(hAGX-A07H2L5)	Genomeditech/GM-59881AB

## Figures

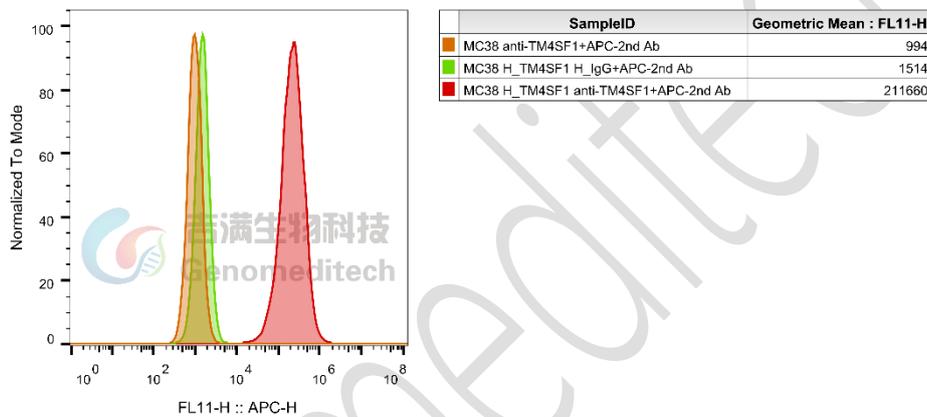


Figure 1 | H\_TM4SF1 MC38 Cell Line (Cat. GM-C31426) was determined by flow cytometry using Anti-TM4SF1 hIgG1 Antibody(hAGX-A07H2L5) (Cat. GM-59881AB).

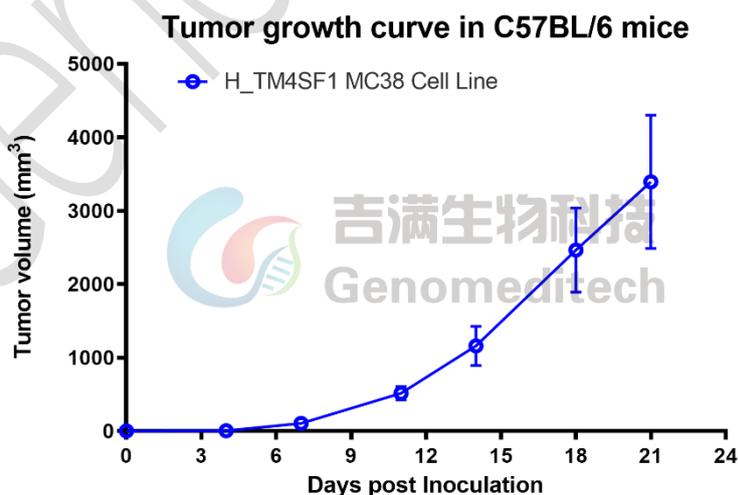


Figure 2 | Tumor growth curves of H\_TM4SF1 MC38 in C57BL/6 mice. H\_TM4SF1 MC38 cells ( $1 \times 10^6$  per mouse) were subcutaneously inoculated into C57BL/6 mice (female, 8 weeks old,  $n = 3$ ). Tumor volume was measured twice per week and is presented as mean  $\pm$  SEM.

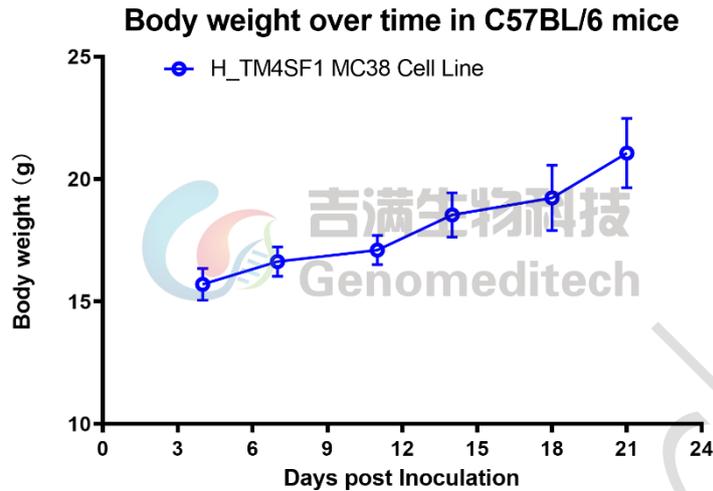


Figure 3 | Body weight changes after implantation of H\_TM4SF1 MC38 in C57BL/6 mice. Under the same conditions, body weight was measured twice per week and is presented as mean  $\pm$  SEM.

## 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  $-70^{\circ}\text{C}$ . Storage at  $-70^{\circ}\text{C}$  will result in loss of viability.

- Thaw the vial by gentle agitation in a  $37^{\circ}\text{C}$  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  $37^{\circ}\text{C}$  in a suitable incubator. A 5%  $\text{CO}_2$  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  $5 \times 10^6$  cells/mL.
- Aliquot 1 mL into each vial.

- d) Place the vial in a controlled-rate freezing container and store at  $-80^{\circ}\text{C}$  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  $\mu\text{g}/\text{mL}$  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  $37^{\circ}\text{C}$ ).
- 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  $37^{\circ}\text{C}$  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  $37^{\circ}\text{C}$ .

**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

TM4SF1 [P30408](#)

MCYGKCARCIGHSLVGLALLCIAANILLYFPNGETKYASENHLSRFVWFFSGIVGGGLLMLLP AFVFIGLEQD  
DCCGCCGHENCGKRCAMLSSVLAALIGIAGSGYCVIVAALGLAEGPLCLDSLQWNYTFASLEGQYLLDTST  
WSECTEPKHIVEWNVSLFSILLALGGIEFILCLIQVINGVLGGICGFCCSHQQQYDC\*

## Related Products

TM4SF1	
<a href="#">Cynomolgus_TM4SF1 CHO-K1 Cell Line</a>	<a href="#">H_TM4SF1 CHO-K1 Cell Line</a>
<a href="#">H_TM4SF1 CT26 Cell Line</a>	<a href="#">H_TM4SF1 HEK-293 Cell Line</a>
<a href="#">Anti-TM4SF1 hIgG1 Antibody(hAGX-A01H1L10)</a>	<a href="#">Anti-TM4SF1 hIgG1 Antibody(hAGX-A07H2L5)</a>

## License Agreement:

**By purchasing and using this cell line product, the user voluntarily agrees to accept and abide by the following policies:**

- This cell line product is restricted to research use only and shall not be used for any commercial purposes.
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