

# Product Sheet

## Luciferase MM.1R Cell Line

Catalog number: GM-C25286

Version 3.3.1.260330

<b>Description</b>	Luciferase MM.1R Cell Line is a clonal stable MM.1R cell line that constitutively expresses the Luciferase gene, constructed using lentiviral technology.
<b>Quantity</b>	2E6 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>	/
<b>Gene ID/Uniprot ID</b>	/
<b>Host Cell</b>	MM.1R
<b>Recovery Medium</b>	RPMI 1640+10% FBS+1% P.S+1% Glutamax+1% Sodium Pyruvate
<b>Growth medium</b>	RPMI 1640+10% FBS+1% P.S+1% Glutamax+1% Sodium Pyruvate+0.25 µg/mL Puromycin
<b>Note</b>	None
<b>Freezing Medium</b>	90% FBS+10% DMSO
<b>Growth properties</b>	Mixed: suspension with some adherent cells
<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.
RPMI 1640	VivaCell/C3010-0500
Fetal Bovine Serum	ExCell/FSP500
Pen/Strep	Thermo/15140-122
Glutamax	Gibco/35050061
Sodium Pyruvate	Biological Industries/03-042-1B
Puromycin	Genomeditech/GM-040401
GMOne-Step 2.0 Luciferase Reporter Gene Assay Kit	Genomeditech/GM-040513
Anti-H_GPRC5D hIgG4 Antibody(Talquetamab)	Genomeditech/GM-31061AB

## Figures

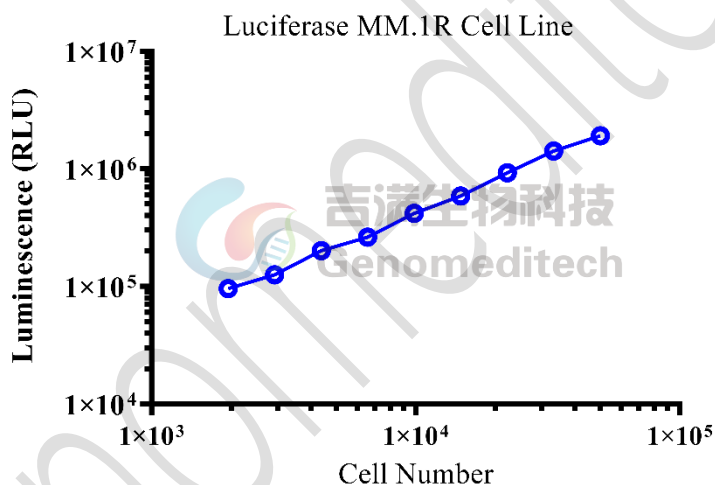


Figure 1 | Correlation between the number of cells and bioluminescence values. Serial dilutions of Luciferase MM.1R Cell Line (Cat. GM-C25286) (96-well format). The firefly luciferase activity was measured using the Luciferase Reporter Assay Kit (Genomeditech).

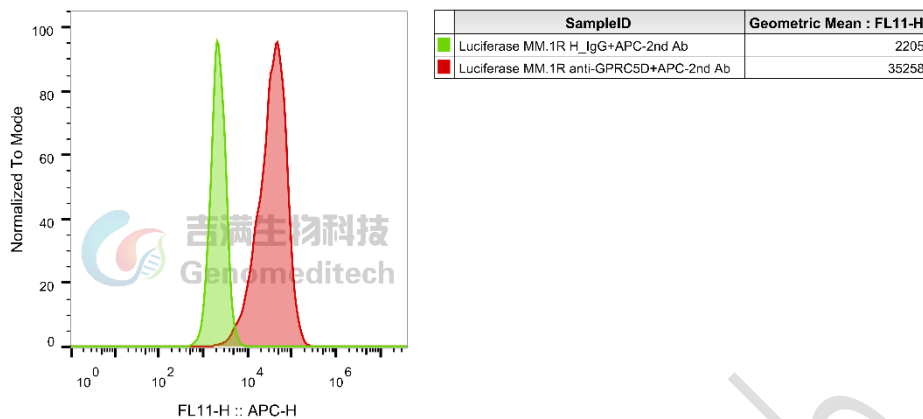


Figure 2 | Luciferase MM.1R Cell Line (Cat. GM-C25286) was determined by flow cytometry using Anti-H\_GPRC5D hIgG4 Antibody(Talquetamab) (Cat. GM-31061AB).

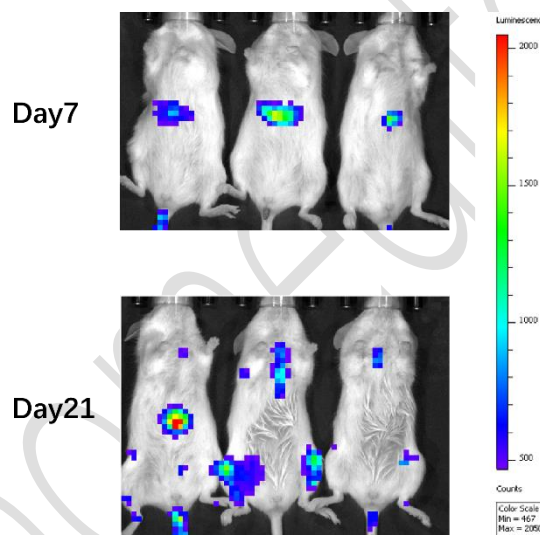


Figure 3 | In vivo imaging following subcutaneous inoculation of NCG with the Luciferase MM.1R Cell Line (Cat. GM-C25286).

## Cell Recovery

Recovery Medium: RPMI 1640+10% FBS+1% P.S+1% Glutamax+1% Sodium Pyruvate

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).

- b) 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.
- c) Transfer the vial contents to a centrifuge tube containing 5.0 mL complete culture medium. And spin at approximately 176 x g for 5 minutes. Discard supernatant.
- d) Resuspend cell pellet with the recommended complete medium. And dispense the suspension into 1 - 2 T-25 culture flasks.
- e) Incubate the culture at 37°C in a suitable incubator. A 5% CO<sub>2</sub> in air atmosphere is recommended if using the medium described on this product sheet.

## Cell Freezing

Freezing Medium: 90% FBS+10% DMSO

- a) Centrifuge at 176 x g for 3 minutes to collect cells.
- b) Resuspend the cells in pre-cooled freezing medium and adjust the cell density to 5E6 cells/mL.
- c) 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: RPMI 1640+10% FBS+1% P.S+1% Glutamax+1% Sodium Pyruvate+0.25 µg/mL Puromycin

After this initial passage, the culture medium can be adjusted to growth medium supplemented with antibiotics.

- a) This is a mixed cell culture; cells grow both as a lightly attached monolayer and in suspension.
- b) When the cell density reaches 1.5 - 2E6 cells/mL, continue passaging and ensure that the density does not exceed 2E6 cells/mL.
- c) Cultures can be maintained by adding fresh medium. Alternatively, subcultures can be prepared by scraping the adherent cells into the medium containing the floating cells, collecting the cells by centrifugation, resuspending the cell pellet in fresh medium and dispensing into new flasks.

**Subcultivation Ratio: Maintain cultures at a cell concentration between 3E5 and 1E6 viable cells/mL.**

**Medium Renewal: Every 2 to 3 days**

## Notes

- a) After thawing, cells need to be cultured for about two weeks to restore their normal growth state.
- b) Ensure proper nutrition, and if not handling them, make sure to add an appropriate amount of medium every other day.

## Related Products

Labeled Cells	
<a href="#">Luciferase-GFP MCF-7 Cell Line</a>	<a href="#">Luciferase A498 Cell Line</a>

<a href="#">Luciferase B16-F10 Cell Line</a>	<a href="#">Luciferase Daudi Cell Line</a>
<a href="#">Luciferase HEK-293 Cell Line</a>	<a href="#">Luciferase HL-60 Cell Line</a>
<a href="#">Luciferase Jurkat Cell Line</a>	<a href="#">Luciferase MIA PaCa-2 Cell Line</a>
<a href="#">Luciferase NCI-H929 Cell Line</a>	<a href="#">Luciferase OVCAR3 Cell Line</a>
<a href="#">Luciferase RAMOS Cell Line</a>	<a href="#">Luciferase U-937 Cell Line</a>
<a href="#">Luciferase-ZsGreen1 K562 Cell Line</a>	<a href="#">Luciferase-ZsGreen1 Raji Cell Line</a>
<a href="#">D-Luciferin, Potassium Salt</a>	<a href="#">D-Luciferin, Sodium Salt</a>

## License Agreement:

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

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- This product is strictly prohibited from being used in the diagnosis or treatment of human or animal diseases, and shall not be directly used in experiments involving humans.
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