Genomeditech (Shanghai) Co.,Ltd.
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Product Sheet

Luciferase MM.1R Cell Line

Catalog number: GM-C25286

Version 3.3.1.250107

Description	Luciferase MM.1R Cell Line is a clonal stable MM.1R cell line that constitutively expresses the Luciferase gene, constructed using lentiviral technology.
Quantity	2E6 Cells per vial,1 mL
Product Format	3 vials of frozen cells
Shipping	Shipped on dry ice
Storage Conditions	Liquid nitrogen immediately upon receipt
Target	/
Gene ID/Uniprot ID	/
Host Cell	MM.1R
Recovery Medium	RPMI 1640+10% FBS+1% P.S+1% Glutamax+1% Sodium Pyruvate
Growth medium	RPMI 1640+10% FBS+1% P.S+1% Glutamax+1% Sodium Pyruvate+0.25 μg/mL Puromycin
Note	None
Freezing Medium	90% FBS+10% DMSO
Growth properties	Mixed: suspension with some adherent cells
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.

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Materials

Reagent	Manufacturer/Catalogue No.
RPMI 1640	VivaCell/C3010-0500
Fetal Bovine Serum	Cegrogen biotech/A0500-3010
Pen/Strep	Thermo/15140-122
Glutamax	Gibco/35050061
Sodium Pyruvate	Biological Industries/03-042-1B
Puromycin	Genomeditech/GM-040401
ONE-Glo™ Luciferase Assay System	Promega/E6120
Anti-H_GPRC5D hIgG4 Antibody(Talquetamab)	Genomeditech/GM-31061AB

Figures

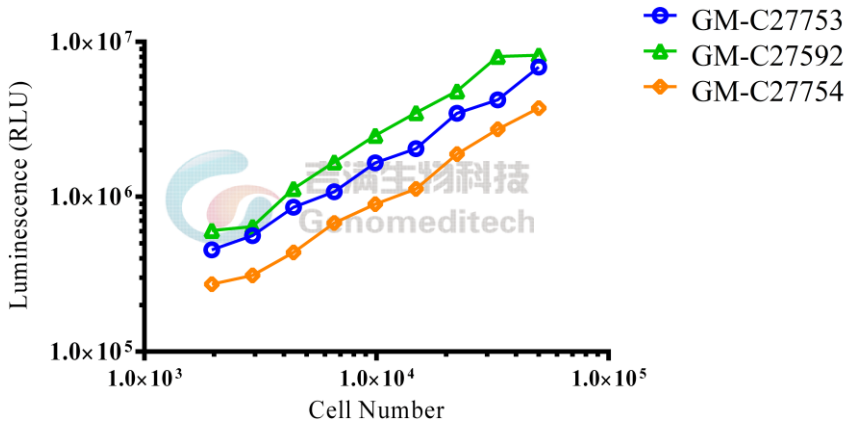

Figure 1 | Correlation between the number of cells and bioluminescence values. Serial dilutions of Luciferase MM.1R Cell Line (Cat. GM-C25286) (96-well format). The firefly luciferase activity was measured using the ONE-GloTM Luciferase Assay System (Promega/E6120).

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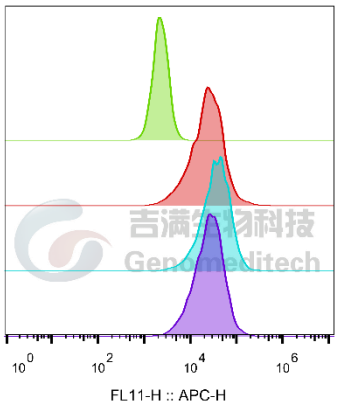

	SampleID	Geometric Mean : FL11-H
	Luciferase MM.1R H_IgG+APC-2nd Ab	2263
	Luciferase MM.1R anti-GPRC5D+APC-2nd Ab #2	22653
	Luciferase MM.1R anti-GPRC5D+APC-2nd Ab #3	34430
	Luciferase MM.1R anti-GPRC5D+APC-2nd Ab #5	24423

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).

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.

a) 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_2 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.

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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 concentraion 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	
Luciferase-GFP MCF-7 Cell Line	GFP MKN45 Cell Line
Luciferase A498 Cell Line	Luciferase B16-F10 Cell Line
Luciferase HL-60 Cell Line	Luciferase MIA PaCa-2 Cell Line
Luciferase NCI-H929 Cell Line	Luciferase OVCAR3 Cell Line
Luciferase U-937 Cell Line	Luciferase-ZsGreen1 K562 Cell Line
Luciferase-ZsGreen1 Raji Cell Line	
D-Luciferin, Potassium Salt	D-Luciferin, Sodium Salt

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