

RM-1-Luc | 305703

RM-1-Luc

Description	RM-1-Luc is a luciferase reporter construct under the control of the RM-1 promoter. It is used to study the expression and regulation of the RM-1 gene. The construct is 1.5 kb in size and contains the RM-1 promoter, the luciferase gene, and a polyA signal. The construct is subcloned into the pGL3 vector (BLI) and is used for transfection and luciferase assay.
Organism	Human
Tissue	Testis
Disease	Testicular germ cell tumor
Synonyms	RM1

Testicular germ cell tumor

Breed/Subspecies	C57BL/6
Age	17 weeks
Gender	Male
Morphology	Normal
Growth properties	Stable

Testicular germ cell tumor

Citation	RM-1-Luc (Cytion 305703)
Biosafety level	1
NCBI_TaxID	10090
CellosaurusAccession	CVCL_E3IK
GMO Status	GMO-S1: RM-1-Luc (Cytion 305703) is a genetically modified organism (GMO) and is not intended for human consumption.

Product sheet

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Cell Line: RM-1-Luc

Antigen expression	Luc2 (intracellular, secreted)
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Media

Culture Medium	DMEM, w: 4.5 g/L glucose, w: 4 mM L-glutamine, w: 3.7 g/L NaHCO3, w: 1.0 mM sodium pyruvate (all from Cytion 820300a)
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Supplements	10% FBS
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Dissociation Reagent	Accutase 5 min, gentle pipetting
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Subculturing	Cells are grown in 25 cm ² flasks in DMEM supplemented with 10% FBS. When cells reach 80-90% confluency, they are trypsinized and seeded into new flasks at a split ratio of 1:3.
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Split ratio	1:3
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Seeding density	1 x 10 ⁴ cells/cm ²
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Fluid renewal	2-3 times per week
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Freeze medium	DMEM supplemented with 10% FBS + 10% DMSO
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Thawing and
Culturing Cells

1. Remove the vial from the dry ice and immerse it in a water bath at 37°C. Gently swirl the vial to mix the cells. Remove the vial from the water bath and centrifuge at 300 x g for 5 minutes. Remove the supernatant and resuspend the cells in 1 ml of DMEM supplemented with 10% FBS. Seed the cells into a 24-well plate (100,000 cells per well) and incubate for 24 hours.
2. Remove the cells from the water bath and immerse them in a water bath at 37°C. Gently swirl the vial to mix the cells. Remove the vial from the water bath and centrifuge at 300 x g for 5 minutes. Remove the supernatant and resuspend the cells in 1 ml of DMEM supplemented with 10% FBS. Seed the cells into a 24-well plate (100,000 cells per well) and incubate for 24 hours.
3. Remove the cells from the water bath and immerse them in a water bath at 37°C. Gently swirl the vial to mix the cells. Remove the vial from the water bath and centrifuge at 300 x g for 5 minutes. Remove the supernatant and resuspend the cells in 1 ml of DMEM supplemented with 10% FBS. Seed the cells into a 24-well plate (100,000 cells per well) and incubate for 24 hours.
4. Remove the cells from the water bath and immerse them in a water bath at 37°C. Gently swirl the vial to mix the cells. Remove the vial from the water bath and centrifuge at 300 x g for 5 minutes. Remove the supernatant and resuspend the cells in 1 ml of DMEM supplemented with 10% FBS. Seed the cells into a 24-well plate (100,000 cells per well) and incubate for 24 hours.
5. Remove the cells from the water bath and immerse them in a water bath at 37°C. Gently swirl the vial to mix the cells. Remove the vial from the water bath and centrifuge at 300 x g for 5 minutes. Remove the supernatant and resuspend the cells in 1 ml of DMEM supplemented with 10% FBS. Seed the cells into a 24-well plate (100,000 cells per well) and incubate for 24 hours.
6. Remove the cells from the water bath and immerse them in a water bath at 37°C. Gently swirl the vial to mix the cells. Remove the vial from the water bath and centrifuge at 300 x g for 5 minutes. Remove the supernatant and resuspend the cells in 1 ml of DMEM supplemented with 10% FBS. Seed the cells into a 24-well plate (100,000 cells per well) and incubate for 24 hours.
7. Remove the cells from the water bath and immerse them in a water bath at 37°C. Gently swirl the vial to mix the cells. Remove the vial from the water bath and centrifuge at 300 x g for 5 minutes. Remove the supernatant and resuspend the cells in 1 ml of DMEM supplemented with 10% FBS. Seed the cells into a 24-well plate (100,000 cells per well) and incubate for 24 hours.

Incubation
Atmosphere

37°C, 5% CO₂, humidified

Shipping
Conditions

Store at -78°C. Ship on dry ice. Do not thaw until ready to use.

Storage
Conditions

Store at -150°C. Do not thaw until ready to use.

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