

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 for studying the expression and regulation of the RM-1 gene in various tissues and cell lines. The construct is 1.5 kb in size and contains a 5' UTR, a start codon, a luciferase coding sequence, and a 3' UTR. The luciferase activity is measured by bioluminescence imaging (BLI) or luciferase assay.
Organism	Human
Tissue	Embryonic stem (ES) cells
Disease	None
Synonyms	RM1

RM-1-Luc

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

RM-1-Luc

Citation	RM-1-Luc (Cytion: 305703)
Biosafety level	1
NCBI_TaxID	10090
CellosaurusAccession	CVCL_E3IK
GMO Status	GMO-S1: RM-1-Luc (Cytion: 305703)

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Cell Line: RM-1-Luc

Antigen expression Luc2 (Luciferase)

Cell Line: RM-1-Luc

Culture Medium DMEM 4.5 g/l Glucose 4 mM Glutamine 3.7 g/l NaHCO₃ 1.0 mM Sodium Butyrate (pH 7.2)

Supplements 10% FBS

Dissociation Reagent Accutase 5 min

Subculturing 1:3 split ratio

Split ratio 1:3

Seeding density 1 x 10⁴ cells

Fluid renewal 2-3 times

Freeze medium 10% DMSO

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Thawing and
Culturing Cells

1. Thaw the cells as quickly as possible in a water bath at 37 °C. Transfer the cells to a sterile tube 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 in a 24-well plate (50,000 cells per well) and incubate for 24 hours.
2. Remove the FBS and replace the medium with DMEM supplemented with 1% FBS. Incubate the cells for 24 hours.
3. Remove the FBS and replace the medium with DMEM supplemented with 1% FBS. Incubate the cells for 24 hours.
4. Remove the FBS and replace the medium with DMEM supplemented with 1% FBS. Incubate the cells for 24 hours.
5. Remove the FBS and replace the medium with DMEM supplemented with 1% FBS. Incubate the cells for 24 hours.
6. Remove the FBS and replace the medium with DMEM supplemented with 1% FBS. Incubate the cells for 24 hours.
7. Remove the FBS and replace the medium with DMEM supplemented with 1% FBS. Incubate the cells for 24 hours.

Incubation
Atmosphere

37 °C, 5% CO₂, humidified

Shipping
Conditions

Shipped at -78 °C in dry ice

Storage
Conditions

Store at -150 °C to -196 °C in liquid nitrogen

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