

MM.1S-Luc | 305829

General information

Description	MM.1S-Luc is a cell line derived from a patient with metastatic breast cancer. It is a highly tumorigenic cell line that expresses luciferase (Luc) under the control of the MM.1S promoter. The cell line is used for studying breast cancer biology and for testing new therapies.
Organism	Human
Tissue	Breast
Disease	Metastatic breast cancer
Synonyms	MM.1S, MM.1S-Luc, MM.1S-Luc2

Experimental conditions

Age	45 years
Gender	Female
Ethnicity	White
Growth properties	Adherent/Epithelial

References and safety

Citation	MM.1S-Luc (Cytion 305829)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_E3I2
GMO Status	GMO-S1: MM.1S-Luc (Cytion 305829) is a genetically modified organism (GMO) that has been engineered to express luciferase (Luc) under the control of the MM.1S promoter. It is used for studying breast cancer biology and for testing new therapies.

Additional information

Product sheet

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Antigen expression

Luc2 (secreted, luciferase)

Mutational profile

Genotype: KRAS, p.Gly12Ala (c.35G>C), BRAF (BRAF V600E). Pathway: TRAF3, p.Val536_Asn545delValPhe (c.1604-1630delTCTTTGTGGCCCAACTGTTCTAGAAA), BRAF (BRAF V600E).

Characteristics

Culture Medium

Ham's F12K Medium, w: 2.0 mM L-Glutamine, w: 2.0 mM Sodium pyruvate, w: 2.5 g/L NaHCO3 (Cytion 820608a)

Supplements

10% FBS

Dissociation Reagent

Trypsin

Seeding density

3-5 × 10⁵/mL

Freeze medium

DMEM, 10% FBS, 10% DMSO (Cytion 820608a) + 10% DMSO (Cytion 820608a) + 10% FBS (Cytion 820608a)

Thawing and Culturing Cells

1. Thaw cells quickly in a 37°C water bath, transfer to a 15 mL tube, add 10 mL DMEM + 10% FBS, mix gently.
2. Centrifuge at 300 x g for 3 min, remove supernatant, resuspend in 1 mL DMEM + 10% FBS, count cells.
3. Seed cells into a 24-well plate (1.5 × 10⁵ cells/well) or a 96-well plate (1.5 × 10⁴ cells/well) in DMEM + 10% FBS.
4. Incubate cells for 24-48 hours in a 37°C incubator with 5% CO₂.
5. Harvest cells for analysis (e.g., luciferase activity) or for further experiments.
6. For long-term culture, seed cells into a 24-well plate (1.5 × 10⁵ cells/well) or a 96-well plate (1.5 × 10⁴ cells/well) in DMEM + 10% FBS.
7. Incubate cells for 24-48 hours in a 37°C incubator with 5% CO₂.
8. Harvest cells for analysis (e.g., luciferase activity) or for further experiments.

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Incubation
Atmosphere

37°C, 5%_{CO2}, humidified

Shipping
Conditions

Cells are shipped in a dry ice container. The container should be kept at -78°C.

Storage
Conditions

Cells should be stored in liquid nitrogen. The storage temperature should be -150 to -196 °C.

Sterility

Cells are tested for mycoplasma contamination. PCR results are negative. Cells are also tested for endotoxin. Results are negative. Cells are free of mycoplasma and endotoxin.