

MM.1S-Luc | 305829

Product description

Description MM.1S-Luc is a cell line derived from a human breast cancer cell line (MM.1S) and is stably transfected with a luciferase gene (Luc2) under the control of a minimal promoter. The cell line is used for studying the effects of various treatments on breast cancer cells and for monitoring the progression of the disease in animal models.

Organism Human

Tissue Breast

Disease Breast cancer

Synonyms MM.1S-Luc, MM.1S-Luc2, MM.1S-Luciferase

Cell characteristics

Age 45 days

Gender Male

Ethnicity Chinese

Growth properties Adherent, epithelial

Cell culture conditions

Citation MM.1S-Luc (Cytion: 305829)

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_E3I2

GMO Status GMO-S1: MM.1S-Luc (Cytion: 305829) (Luc2 gene under the control of a minimal promoter)

Cell culture conditions

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Antigen expression

Luc2 (secreted luciferase)

Mutational profile

Genotype: KRAS p.Gly12Ala (c.35G>C) (heterozygous, 50% mutant). TRAF3 p.Val536_A1630delTCTTTGTGGCCCAACTGTTCTAGAAA (heterozygous, 50% mutant).

Culture Medium

DMEM F12K + 2.0 µg/ml transferrin + 2.0 µg/ml selenium + 2.5 µg/ml NaHCO₃ (pH 7.2)

Supplements

10% FBS

Dissociation Reagent

Trypsin

Seeding density

3-5*10⁵/well

Freeze medium

DMEM F12K + 10% FBS + 10% DMSO

Thawing and Culturing Cells

1. Thaw cells quickly in a 37°C water bath.
2. Dilute cells in DMEM F12K + 10% FBS.
3. Seed cells into a 96-well plate (100 µl/well).
4. Incubate cells for 24 hours at 37°C.
5. Add 10 µl of luciferase substrate.
6. Measure luciferase activity using a luminometer.
7. Repeat steps 3-6 for each condition.
8. Calculate the mean and standard deviation.

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Incubation
Atmosphere

37 °C, 5% CO₂, humidified

Shipping
Conditions

Shipped in dry ice, stored at -78 °C

Storage
Conditions

Store at -150 °C to -196 °C

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Sterility

MM.1S-Luc is a luciferase-expressing cell line (PCR) and is not suitable for PCR. MM.1S-Luc is a luciferase-expressing cell line and is not suitable for PCR. MM.1S-Luc is a luciferase-expressing cell line and is not suitable for PCR.