4T1-Luc

305663

GENERAL INFORMATION

Description

4T1-Luc □□□ 4T1 □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□ 4T1 □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□ □□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
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4T1-Luc □□□ □□□□□□□□□ □□

Tissue	□□
Disease	□□□□

CLASSIFICATION

Organism	Mouse
Sex	Female
Growth properties	Adherent
GMO status	GMO-S1

GMO status details

GMO-S1: This cell line contains a stably integrated firefly luciferase reporter cassette (Luc2, codon-optimized) introduced via replication-incompetent lentiviral transduction. The resulting polyclonal cell population was maintained under puromycin selection (1–5 µg/mL). S1 containment is required. This classification applies only within Germany and may differ elsewhere.

Biosafety level	1

CHARACTERISTICS

Morphology	□□□
Tumourigenic	□□□□ BALB/c □□□□

IDENTIFIERS

Citation

4T1-Luc□Cytion □□ 305663□

NCBI TaxID	10090
Cellosaurus	CVCL_J239

EXPRESSION AND SUSCEPTIBILITY

Antigen expression

Luc2□□□□□□□□□□□

HANDLING AND CULTURE

Culture medium

RPMI 1640□□ 2.0 mM □□□□□□□□ 2.0 g/L $NaHCO_3$□Cytion □□□□ 820700a□

Incubation atmosphere	37°C□5% CO_2□□□□□□

Supplements

□□□□□□□ 10% □□□□□□FBS□

Dissociation reagent	Accutase

Subculturing

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Seeding density	1 □ 3 × 10^4 □□□/cm^2
Fluid renewal	□□ 2 □ 3 □

Thawing and culturing

Confirm that the vial remains deeply frozen upon delivery, as cells are shipped on dry ice to maintain optimal temperatures during transit.
Upon receipt, either store the cryovial immediately at temperatures below -150°C to ensure the preservation of cellular integrity, or proceed to step 3 if immediate culturing is required.
For immediate culturing, swiftly thaw the vial by immersing it in a 37°C water bath with clean water and an antimicrobial agent, agitating gently for 40-60 seconds until a small ice clump remains.
Perform all subsequent steps under sterile conditions in a flow hood, disinfecting the cryovial with 70% ethanol before opening.
Carefully open the disinfected vial and transfer the cell suspension into a 15 ml centrifuge tube containing 8 ml of room-temperature culture medium, mixing gently.
Centrifuge the mixture at 200 x g for 5 minutes, carefully discard the supernatant containing freezing medium.
Follow the procedure described under Post-Thaw Recovery

QUALITY CONTROL AND CRYOPRESERVATION

Freeze medium	□□□□□□□□□□□□□□□□□□□□□□□□□□ 10% □□□□□□□DMSO□□□□□□□□□□□□□□□□□□□ □□□□

Storage conditions

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Shipping conditions

□□ −78 °C□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□

DONOR

Breed / subspecies	BALB/cfC3H

LEGAL AND SAFETY

Safety precautions

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Warranty

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Material Transfer Agreement required	Yes