U87MG-RFP

305702

GENERAL INFORMATION

Description

□□□□□ U-87 MG-RFP □□□□□□

Growth properties	Adherent
GMO status	GMO-S1

GMO status details

GMO-S1: This cell line contains a stably integrated red fluorescent protein (RFP) reporter 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	□□□□□□□□□□□□□□□□□□□□□□
Cell type	□□□□□□□□□□ (□□□□□□□□□□)
Tumourigenic	□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ 107 □□□□□□□□ □□□□□□□
Doubling time	□□□□□□ 24 □□□ 36 □□□□□□□

IDENTIFIERS

Citation

U87MG-RFP (□□□□□□□□□□□□□□□□ Cytion 305702)

NCBI TaxID	9606
Cellosaurus	Not assigned (U87MG-RFP is a lentiviral RFP derivative; parental U-87 MG CVCL_0022)

EXPRESSION AND SUSCEPTIBILITY

Antigen expression

□□□□□□□□□ (□□□□□□□□□□□□□□□□□□□□)

Isoenzymes

Me-2, 1, PGM3, 1, PGM1, 2, ES-D, 1, AK-1, 1, GLO-1, 1, G6PD, B

HANDLING AND CULTURE

Culture medium

EMEM (MEM Eagle), w: 2 mM L-Glutamine, w: 2.2 g/L NaHCO3, w: EBSS (□□□□□□□□□□□□□□ Cytion 820100a)

Incubation atmosphere	37°C, 5%CO2, □□□□□□□□□□□□□

Supplements

□□□□□□□□□□□□□□□□□□□□□□□□□□ FBS 10%

Dissociation reagent	□□□□□□□□
Split ratio	1 □□□ 3
Seeding density	1.5 □□□ 2 x 10^4 □□□□□/□□.
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	□□□□