HCT116-GFP

305649

GENERAL INFORMATION

Description

HCT116-GFP □□□□

Growth properties	Adherent
GMO status	GMO-S1

GMO status details

GMO-S1: This cell line contains a stably integrated ZsGreen1 green fluorescent protein 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

Doubling time	27 □□□□□□□□ ; 17.1 □□□□□□□□ ; 22 □□□□□□□□ ; 25.02 □□□□□□□□ ; 36 □□□□□□□□ ; 18.14 +- 0.051 □□□□□□□□ ; ~25-48 □□□□□□□□ ; 17.4 □□□□□□□□ ; ~21 □□□□□□□□

IDENTIFIERS

Citation

HCT116-GFP (□□□□□□□□□□□□□□□□□□ Cytion 305649)

NCBI TaxID	9606
Cellosaurus	CVCL_0291

EXPRESSION AND SUSCEPTIBILITY

Antigen expression

ZsGreen1 (□□□□□□□□□□□□□□□□□□□□□□□□)

Mutational profile

□□□□□□□□□□□□□□□: p.Lys437Argfs*5, □□□□□□□□□□□□□□□; □□□□□□□□□□□□□□□: p.Ile2675Aspfs*6, □□□□□□□□□□□□□□□□□□; □□□□□□□□□□□□: p.Arg24Serfs*20, □□□□□□□□□□□□□□□□□□; □□□□□□□□□□□□□□□: p.Glu33Argfs*20, □□□□□□□□□□□□□□□□□□; □□□□□□□□□□□□: p.Asp74fs*21, Heterozygous; □□□□□□□□□□□□□□□: p.Ser45del, Heterozygous; □□□□□□□□□□□□□□□: p.Met1470Cysfs*22, Heterozygous; □□□□□□□□□□□□□□□: p.Asn1700Thrfs*9, Heterozygous; □□□□□□□□□□□□□□□: p.Gly13Asp, Heterozygous; □□□□□□□□ □□□□□□□: p.His1047Arg, Heterozygous; □□□□□□□□□□□□□□□: p.Leu450Ter, Heterozygous; □□□□□□□□□□□□□□□: p.Lys128Serfs*35, Homozygous

HANDLING AND CULTURE

Culture medium

McCoys 5a, w: 3.0 □□□□/□□□□ □□□□□□, w: □□□□□□ □□□□□□□□, w: 2.0 □□□□□□□□□□□□ □□□□□□□□□□□□□□□, w: 2.2 □□□□/□□□□ NaHCO3 (□□□□□□□□□□□□□□□ Cytion 820200a)

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

Supplements

□□□□□□□□□□□□□□□□□□□□□□□□□□□□ FBS 10%

Dissociation reagent	□□□□□□□□□
Seeding density	2 □□□ 4 x 10^4 □□□□□/□□.

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	□□□□