HCT116-Luc

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- NF-KappaB reporter (Luc)-HCT-116
- NF-KappaB reporter (Luc)-HCT116

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□□□ □□ □□	GMO-S1

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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.

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□□ □□□	Yes, in nude mice (inoculum of 5-10 x 106 cells)
□□□ □□	Aneuploid
MSI □□	Instable (MSI-high)

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The karyotype of HCT116 cells is nearly diploid, with 70% of the cells harboring 45 chromosomes, often showing an overrepresentation of chromosomes 8, 10, 16, and 17 on the long arms, along with the absence of the Y-chromosome.

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HCT116-Luc (Cytion □□ □□ 305787)

NCBI □□ □□□□	9606
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Luc2 (□□□□, □□ □□□)

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

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□□□ 5a, w: 3.0g/L □□□, w: □□ □□□□, w: 2.0mM □□□□ □□□, w: 2.2g/L NaHCO3(□□□□ □□ □□ 820200a)

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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 300 x g for 3 minutes to separate the cells and carefully discard the supernatant containing residual freezing medium.
Gently resuspend the cell pellet in 10 ml of fresh culture medium. For adherent cells, divide the suspension between two T25 culture flasks; for suspension cultures, transfer all the medium into one T25 flask to promote effective cell interaction and growth.
Adhere to established subculture protocols for continued growth and maintenance of the cell line, ensuring reliable experimental outcomes.

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