OVCAR-8-Luc

305697

GENERAL INFORMATION

Description

OVCAR-8-Luc□胞是人类卵巢腺癌□胞系OVCAR-8的生物发光衍生物，该□胞系最初是从一名晚期成人患者体内建立的。这些 □胞经过基因工程改造，可稳定表达荧光素酶 ——一种在底物存在下能催化发光反应的酶，从而能够对 □胞活动进行高灵敏度、无创的监测。 亲本 OVCAR-8 □胞系具有生长侵袭性强、基因组不稳定以及高分化浆液性卵巢癌的典型特征，因此成为研究卵巢肿瘤生物学的广泛应用模型。

萤火虫蛋白的引入使 OVCAR-8-Luc □胞能够应用于纵向体内成像，特别是在异种移植和原位肿瘤模型中，通过生物发光成像可随时间推移定量追踪肿瘤负荷和转移扩散情况。这些 □胞保留了亲本□胞系的关键分子和表型特征，包括与卵巢癌进展相关的通路改变，例如 p53 功能障碍和□胞周期调控失调。 因此，OVCAR-8-Luc□胞非常适合用于评估治疗疗效、肿瘤生长动力学和转移行为，以及在前临床研究中研究肿瘤微环境相互作用。

Tissue	卵巢
Disease	腺癌
Metastatic site	原发肿瘤部位（卵巢）

Applications

卵巢癌研究；异种移植/原位模型中的生物发光成像；体内肿瘤负荷监测；药物疗效与药效学； PARP抑制剂及铂类药物敏感性研究；腹膜转移建模；卵巢癌免疫疗法评估

Synonyms

- OVCAR 8
- NIH:OVCAR-8
- OVCAR8
- Ovcar8
- OVCAR.8
- OVCA8
- OVCAR-8/EGFP_LC3

CLASSIFICATION

Organism	Human
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	上皮样
Cell type	上皮□胞

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CEO / Geschäftsführer: Jonathan Steubing

Banking information
Sparkasse Heidelberg
IBAN: DE35 6725 0020 0009 2076 86
BIC: SOLADES1HDB

IDENTIFIERS

Citation

OVCAR-8-Luc□Cytion □□□□ 305697□

NCBI TaxID	9606
Cellosaurus	CVCL_2169

EXPRESSION AND SUSCEPTIBILITY

Antigen expression

Luc2□□□□□□□□□□□□□

HANDLING AND CULTURE

Culture medium

RPMI 1640□w□2.0 mM □□□□□□□w□2.0 g/L NaHCO3□Cytion □□□□ 820700a□□

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

Supplements

□□□□□□□ 10% FBS

Dissociation reagent	Accutase
Seeding density	1–3 × 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	□□□□□□□□□□□□□□□□□□□□□□+10% DMSO□□□□□□□□□□□□□□□

Storage conditions

□□□□□□□□□□□□□□□□□□□□□□□□□□ -150 □ -196 ℃□□-80 °C□□□□□□□□□□□□□□□□□□□

Shipping conditions

□□□ -78 °C □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

DONOR

Donor age	64 □
Ethnicity	□□□□

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LEGAL AND SAFETY

Safety precautions

计划将低温样品储存在液氮中以便将来解冻时，必须遵守严格的安全措施。在将冷冻样本移入或移出液氮罐时，必须穿戴适当的防护手套和防护服，并使用面罩或安全护目镜。这样做是为了降低在移出时因冷冻样品爆炸而造成伤害的风险，因为爆炸可能导致锋利的碎片飞溅。

Warranty

在Cytion，我们保证产品的质量和活力。
我们保证，从我们的工厂发货后 60 天内，我们的□胞在开始培养时都是存活的。
我们保证所有材料均符合分析证书和/或产品说明书中描述的规格。
有关详□信息，请参阅我们的 <a href="" /Who-we-are/Warranty/"" hreflang=""x-default"">保修声明。

Material Transfer Agreement required	Yes

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