KC

300604

GENERAL INFORMATION

Description

KC□Kc167）是一种源自背侧闭合期雌性胚胎的果蝇 □Drosophila melanogaster）胚胎细胞系。该细胞系最初由他人建立，目前已广泛应用于果蝇细胞生物学、基因筛选及功能基因组学研究。 Kc167细胞已通过SV40实现永生化，呈半贴壁生长，形成由贴壁细胞和松散漂浮细胞组成的混合细胞群。 它们是表征最充分的果蝇细胞系之一，完全适用于RNAi介导的基因沉默，因此成为无脊椎动物生物学中全基因组 RNAi筛选的基石模型。

KC细胞可应用于果蝇细胞生物学、全基因组 RNAi和CRISPR筛选、信号转导通路研究□Wnt/Wingless、Hedgehog、Notch、JAK/STAT、Toll/NF-κB）、先天免疫研究以及进化上保守通路的比较研究。 由于果蝇基因组已完成测序和注释，加之丰富的公开RNAi试剂数据库□如DRSC/TRiP），KC细胞在无偏见的功能基因组学探索中具有特别强大的优势。由于采用了SV40病毒进行永生化处理，该细胞系被归类为 BSL-2级。

Tissue	胚胎
Disease	正常
Metastatic site	胚胎□背侧闭合期）

Applications

果蝇细胞生物学；全基因组RNAi筛选；CRISPR筛选；信号转导□Wnt/Wingless、Hedgehog、Notch、JAK/STAT、Toll/NF-κB）；先天免疫；无脊椎动物功能基因组学

Synonyms

- KC
- K C

CLASSIFICATION

Organism	Fruit fly
Sex	Female
Growth properties	Adherent
GMO status	GMO-S2

GMO status details

GMO-S2: This Drosophila cell line contains a stably integrated SV40 immortalization cassette. BSL-2 containment is required. This classification applies only within Germany and may differ elsewhere.

Biosafety level	2

CHARACTERISTICS

Morphology	半附着上皮样
Cell type	胚胎细胞
Doubling time	约24至48小时

IDENTIFIERS

Citation

KC□Cytion 产品编号 300604）

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CEO / Geschäftsführer: Jonathan Steubing

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BIC: SOLADES1HDB

NCBI TaxID	7227
Cellosaurus	CVCL_Z833

EXPRESSION AND SUSCEPTIBILITY

Virus susceptibility

SV40 □□□□□

HANDLING AND CULTURE

Culture medium

□□□□□□□□ + 2mM □□□□ + 10% □□□□ (FBS)□

Incubation atmosphere	25°C□□□□□□□□□□□□□□□

Supplements

□□□□□□□ 2 mM □□□□□ 10% FBS

Dissociation reagent	□□□□□□□□□□□□□□□

Subculturing

□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ 5 × 10^5 □ 1 × 10^6 □□□/□□□□ 25°C□ □□□□□□□□□□□□□□□

Split ratio	1 □ 3
Seeding density	5 × 10^5 □ 1 × 10^6 □□□/□□
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 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.

QUALITY CONTROL AND CRYOPRESERVATION

Freeze medium	□□□□□□□□□□□□□□□ FBS□+10% DMSO □ CM-1□Cytion □□□□□□ 800100□□□□□□□□□ □□□□□□□□□□□□□□□□□CM-1□Cytion □□□□□□ 800100□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□

Storage conditions

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

Shipping conditions

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

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DONOR

Donor age	背侧闭合阶段

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，我们的细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。
有关详细信息，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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