

B16-F10-Luc | 305658

General information

Description	B16-F10-Luc is a murine melanoma cell line derived from a B16-F10 melanoma. It is a highly metastatic cell line that is commonly used in cancer research. B16-F10-Luc is a luciferase-expressing derivative of B16-F10, which allows for bioluminescence imaging (BLI) of tumor growth and metastasis in vivo. The cells are typically grown in DMEM supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. They are highly tumorigenic and can form large, invasive tumors in mice.
Organism	Mouse
Tissue	Skin
Disease	Melanoma

Genetic information

Breed/Subspecies	C57BL/6
Gender	Male
Morphology	Small, dark, pigmented cells with a high degree of cellular heterogeneity.
Growth properties	Highly tumorigenic, forming large, invasive tumors in mice.

Characterization and identification

Citation	B16-F10-Luc (Cytion 305658)
Biosafety level	1
NCBI_TaxID	10090
CellosaurusAccession	CVCL_C8XU
GMO Status	GMO-S1: The B16-F10-Luc cell line is a genetically modified organism (GMO) because it contains a luciferase gene (Luc2) that has been introduced into the genome of the B16-F10 melanoma cells. The luciferase gene is under the control of a promoter that is active in melanoma cells, allowing for bioluminescence imaging (BLI) of tumor growth and metastasis in vivo.

Additional information

XXX B16-F10-Luc | 305658

[illegible]

B16-F10-Luc | 305658

**Thawing and
Culturing Cells**

1. 将细胞冻存管放入 37°C 水浴中快速解冻，离心 5 分钟，500g，弃去上清液，将细胞重悬于 1 mL 培养基中。
2. 将细胞悬液接种到含有 10% FBS 的培养基中，在 37°C 下培养 24 小时，使细胞贴壁。
3. 更换为不含 FBS 的培养基，在 37°C 下培养 24 小时，使细胞适应无血清环境。
4. 将细胞接种到含有 10% FBS 的培养基中，在 37°C 下培养 24 小时，使细胞增殖。
5. 将细胞接种到含有 10% FBS 的培养基中，在 37°C 下培养 24 小时，使细胞增殖。
6. 将细胞接种到含有 10% FBS 的培养基中，在 37°C 下培养 24 小时，使细胞增殖。
7. 将细胞接种到含有 10% FBS 的培养基中，在 37°C 下培养 24 小时，使细胞增殖。

**Incubation
Atmosphere**

37°C, 5% CO₂, 饱和湿度

**Shipping
Conditions**

细胞应在 2-8°C 下运输，并在 24 小时内送达。

**Storage
Conditions**

细胞应在 -150°C 下储存，有效期为 196 天。

细胞应在 2-8°C 下运输，并在 24 小时内送达。