

**Luc2-Panc02-Luc | 305706**

**General information**

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Panc02-Luc is a cell line derived from the Panc02 cell line, which is a pancreatic ductal adenocarcinoma cell line. The cell line is characterized by its high tumorigenicity and its ability to form large, solid tumors in mice. The cell line is derived from a patient with pancreatic ductal adenocarcinoma. The cell line is characterized by its high tumorigenicity and its ability to form large, solid tumors in mice. The cell line is derived from a patient with pancreatic ductal adenocarcinoma. The cell line is characterized by its high tumorigenicity and its ability to form large, solid tumors in mice. The cell line is derived from a patient with pancreatic ductal adenocarcinoma. |
| Organism    | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Tissue      | Pancreas                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Disease     | Pancreatic ductal adenocarcinoma                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Synonyms    | Luc2-Panc02-Luc, Luc2-Panc02-Luc, Luc2-Panc02-Luc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

**Genetic information**

|                   |                     |
|-------------------|---------------------|
| Breed/Subspecies  | C57BL/6             |
| Age               | 6-8 weeks           |
| Gender            | Male                |
| Growth properties | High tumorigenicity |

**Characterization and safety**

|                     |                                                                                                                                |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Citation            | Panc02-Luc (Cytion: 305706)                                                                                                    |
| Biosafety level     | 1                                                                                                                              |
| NCBI_TaxID          | 10090                                                                                                                          |
| CellSaurusAccession | CVCL_E31B                                                                                                                      |
| GMO Status          | GMO-S1: Luc2-Panc02-Luc (Luc2, 305706) is a genetically modified organism (GMO) that has been characterized and safety tested. |

**Additional information**

Product sheet

**Panc02-Luc | 305706**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protein expression   | Luc2                                                                                                                                                                                                                                                                                                                                                                                               |
| Antigen expression   | Luc2 (secreted, luciferase activity)                                                                                                                                                                                                                                                                                                                                                               |
| Media                |                                                                                                                                                                                                                                                                                                                                                                                                    |
| Culture Medium       | RPMI 1640, w: 2.0 mM $\text{NaH}_2\text{PO}_4$ , w: 2.0 g/L $\text{NaHCO}_3$ (Cytion 820700a)                                                                                                                                                                                                                                                                                                      |
| Supplements          | 10% FBS                                                                                                                                                                                                                                                                                                                                                                                            |
| Dissociation Reagent | Trypsin                                                                                                                                                                                                                                                                                                                                                                                            |
| Doubling time        | 24–48 h                                                                                                                                                                                                                                                                                                                                                                                            |
| Subculturing         | Cells are seeded into 96-well plates at a density of $1 \times 10^4$ cells per well in RPMI 1640 medium supplemented with 10% FBS. After 24 h, the medium is replaced with serum-free RPMI 1640 medium. Cells are then grown for 48 h in the presence of luciferase substrate (Cytion 820700a) and luciferase inhibitor (Cytion 820700b). The luciferase activity is measured using a luminometer. |
| Seeding density      | $1 \times 10^4$ cells per well                                                                                                                                                                                                                                                                                                                                                                     |
| Fluid renewal        | 2–3 times per week                                                                                                                                                                                                                                                                                                                                                                                 |
| Freeze medium        | DMEM supplemented with 10% DMSO and 10% FBS                                                                                                                                                                                                                                                                                                                                                        |

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**Thawing and  
Culturing Cells**

1. Remove the vial from the dry ice and thaw it quickly in a water bath at 37°C. Do not shake the vial. Remove the vial from the water bath and centrifuge at 300 x g for 5 minutes at 4°C. Remove the supernatant and resuspend the cells in 1 ml of DMEM supplemented with 10% FBS. Seed the cells into a 24-well plate (150,000 cells per well) and incubate for 24 hours.
2. After 24 hours, remove the FBS and replace it with DMEM supplemented with 1% FBS. Incubate the cells for 48 hours.
3. After 48 hours, remove the FBS and replace it with DMEM supplemented with 1% FBS. Incubate the cells for 48 hours.
4. After 48 hours, remove the FBS and replace it with DMEM supplemented with 1% FBS. Incubate the cells for 48 hours.
5. After 48 hours, remove the FBS and replace it with DMEM supplemented with 1% FBS. Incubate the cells for 48 hours.
6. After 48 hours, remove the FBS and replace it with DMEM supplemented with 1% FBS. Incubate the cells for 48 hours.
7. After 48 hours, remove the FBS and replace it with DMEM supplemented with 1% FBS. Incubate the cells for 48 hours.

**Incubation  
Atmosphere**

37°C, 5% CO<sub>2</sub>, humidified

**Shipping  
Conditions**

Shipped on dry ice, stored at -78°C

**Storage  
Conditions**

Store at -150°C for 196 months

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