

## Datasheet for Dual-labeled CT-26 Cancer Cell Line

**Catalog Number:** SL550107

**Product:** Luciferase/GFP dual-labeled CT-26 cancer cell line

**Description:** This product is a dual-labeled stable pool in the designated cell type. This stable cell line expresses firefly luciferase and eGFP simultaneously. This cell line can be used *in vitro* for cancer cell line research or *in vivo* to establish orthotopic or subcutaneous tumor models. Tumor growth can be measured before tumors are palpable. It also allows for the monitoring of early tumor development or the direct measurement of tumor growth and metastases *in vivo*.

**Quantity:** 1 vial of  $2 \times 10^6$  cells; frozen

**Shipping Conditions:** Dry ice

**Storage Conditions:** Liquid nitrogen vapor phase. Remove the item from the dry ice packaging and check all items for damage and leakage. Place immediately into storage at or below  $-140^{\circ}\text{C}$ , preferably into the liquid nitrogen vapor phase until use.

**Transgene Integration:**



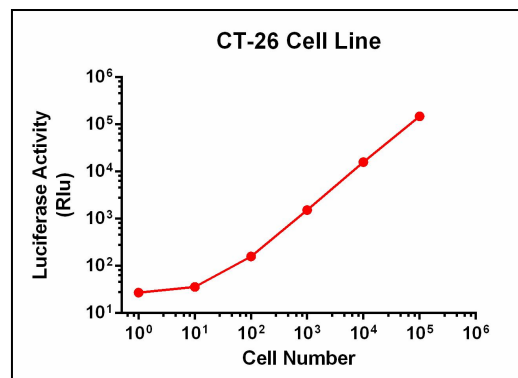
**Source of Parental line:**

CT-26	
Organism	Mus musculus, mouse
Tissue	colon
Cell Type	adherent
Pathology	carcinoma

**Quality Control:** >95% viability before freeze. All cells were tested and found to be free of mycoplasma, bacteria, viruses, and other toxins.

**Luciferase Activity:**

Serial dilutions of CT-26 dual-labeled cells were plated into a 96-well plate (white well). The luciferase activity was tested using Luc-Pair™ Duo-Luciferase HS Assay Kit (LF007).



**GFP Fluorescence:** Image of CT-26 dual-labeled cell line SL021.  
The image was taken at 90% confluence  
using a Nikon fluorescent microscope under  
objective power and a 1 sec exposure time.

**Safety Instructions:** To ensure safety, protective gloves,  
clothing and a face mask should be worn when handling frozen vials. Some  
leakage may occur into the vial during storage. The liquid nitrogen will be  
converted to gas upon thawing. Due to the nature of nitrogen gas, pressure may  
build within the vial and possibly result in the vial exploding or losing its cap. This  
may cause flying debris.

**Thawing procedure:** The vial of cells should be thawed in a 37 °C water bath with gentle agitation. For  
optimal performance, the vial should be thawed in under two minutes. Ensure  
that the cap of the vial did not loosen upon thawing and re-tighten as needed.  
Spray the vial with 70 % EtOH and wipe off. Repeat. Using aseptic technique, add  
the contents of the vial to 9 mL of complete growth medium (without selection).  
Centrifuge for 5 min at 125 x g. Aspirate the media, being careful not to disturb  
the pellet. Resuspend in 10 mL of complete growth medium and place into a  
culture vessel of your choice. Only add selection to the media after 24 h in culture.

**Culture condition:**

**Complete Growth Medium**

The base medium for this cell line is 1640. For optimal growth and maintenance  
of selection, add the following components to the base medium: fetal bovine  
serum to a final concentration of 10%.

**Selection:** Puromycin to a final concentration of 15µg/mL

**Culture temperature:** 37 °C with 5% CO<sub>2</sub>

**Subculture:** Cultures can be maintained by the addition or replacement of fresh medium. Start new cultures at  $1 \times 10^5$  viable cells/mL. Subculture at  $1 \times 10^6$  cells/mL.

**Cryopreservation:** Freeze slowly in complete growth medium supplemented with 5% (v/v) DMSO

**Citation of product:** If use of this item results in a publication, please use this information: Dual-labeled stable CT-26(SL550107, OriGene Technologies, Inc, Rockville, MD).

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