# Fenics **BIO**

# Product data sheet

NCI-H460/Luciferase stable cell line Catalog Number: CL-1207 Storage: Liquid nitrogen Components: 1 vial contains ~2 x10<sup>6</sup> cells in Cell freezing medium

# **Product description**

NCI-H460/Luciferase cells are derived from the human NCI-H460 lung carcinoma cell line by stably integration of a constitutive Firefly luciferase expression construct. NCI-H460 cell line has been widely used in cancer research and drug development. NCI-H460/Luciferase cells stably express Firefly luciferase, can be used for *in vitro* assays and *in vivo* imaging.

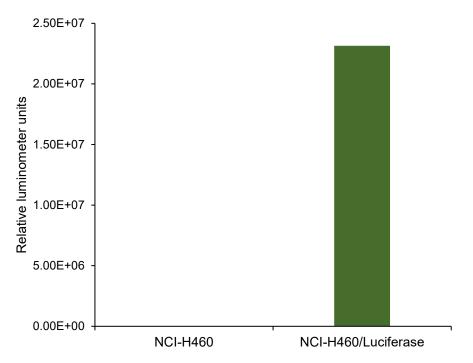


Figure 1. Firefly luciferase expression in NCI-H460/Luciferase stable cell line The luminescence intensity of ~5000 cells was detected by Bright-Glo<sup>™</sup> luciferase Assay System (Promega, Cat E2610).

**Cell line description** 

Organism: Homo sapiens (human) Tissue: Lung Culture Properties: adherent Disease: Carcinoma Biosafety Level: 2

## Medium

- Complete culture medium: RPMI 1640 with 10% fetal bovine serum (FBS)
  2 μg/mL of puromycin may be added to the culture medium. Puromycin should not be added until a culture has been well established from the thawed cells.
- 2. Freeze medium: FBS with 6% DMSO

## Culture procedure

### Thawing of frozen cells

- 1. Thaw the frozen cryovial by gentle agitation in a 37 °C water bath in 1-2 minutes.
- 2. Remove the cryovial from the water bath as soon as the contents are thawed, and decontaminate by wiping with 70% ethanol.
- 3. Transfer the thawed cell suspension to a centrifuge tube containing 10 ml of Complete culture medium, centrifuge at 125 g for 5-10 minutes.
- 4. Remove the medium by aspiration, resuspend the cells with 10 ml of the Complete culture medium by gently pipetting up and down.
- 5. Transfer the cells to a 10 cm cell culture dish.
- 6. Place the cells in a 37°C incubator with 5% CO2.

#### Sub-culturing

Volumes are given for a 10 cm cell culture dish. Increase or decrease the amount of dissociation medium needed proportionally.

- 1. Remove the medium by aspiration.
- 2. Briefly rinse the cell layer with 1xDPBS to remove all traces of serum that contains trypsin inhibitor.
- 3. Add 1 ml of Trypsin-EDTA (0.25%) solution to the dish and observe cells under an inverted microscope until cell layer is dispersed.
- 4. Add 4 ml of complete growth medium and aspirate cells by gently pipetting.
- 5. Add appropriate aliquots of the cell suspension to new culture vessels. Incubate cultures at 37°C with 5% CO2.

FenicsBIO 1448 South Rolling Rd. Halethorpe, MD 21227, USA www.FenicsBIO.com info@FenicsBIO.com Tel: 1-800-811-8291