

## Product data sheet

22Rv1/Luciferase stable cell line

Catalog Number: CL-1266

Storage: Liquid nitrogen

Components: 1 vial contains  $\sim 2 \times 10^6$  cells in Cell freezing medium

### Product description

22Rv1/Luciferase cells are derived from the human prostate cancer 22Rv1 cell line by stably integration of a constitutive Firefly luciferase expression construct. 22Rv1 is a human prostate carcinoma epithelial cell line derived from a xenograft that was serially propagated in mice after castration-induced regression and relapse of the parental, androgen-dependent CWR22 xenograft. The cell line expresses prostate specific antigen (PSA). 22Rv1 cell line has been widely used in cancer research and drug development. 22Rv1/Luciferase cells express Firefly luciferase under the control of the CMV promoter, can be used for *in vitro* assays and *in vivo* imaging.

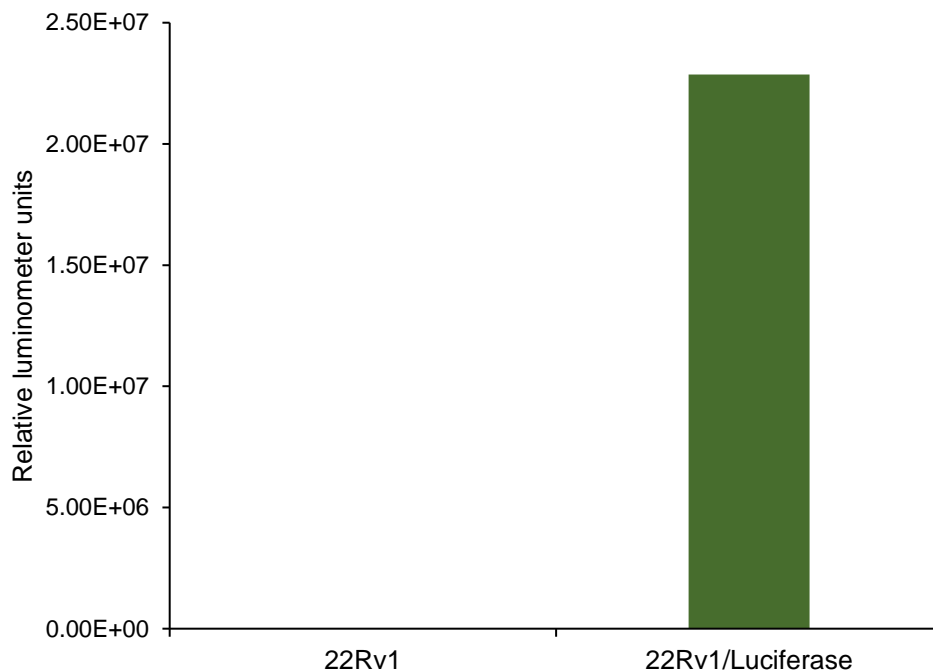


Figure 1. Firefly luciferase expression in 22Rv1/Luciferase stable cell line.

The luminescence intensity of  $\sim 5000$  cells was detected by Bright-Glo™ luciferase Assay System (Promega, Cat E2610).

## Cell line description

Organism: Homo sapiens (human)

Tissue: Prostate

Cell Type: epithelial

Morphology: epithelial

Culture Properties: adherent

Disease: Carcinoma

Biosafety Level: 2

## Medium

1. Complete culture medium: RPMI-1640 with 10% fetal bovine serum (FBS)  
1 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 500 g for 5 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% CO<sub>2</sub>.

### 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% CO<sub>2</sub>.