

### Product data sheet

MV4-11/GFP-luciferase stable cell line

Catalog Number: CL-1495 Storage: Liquid nitrogen

Components: 1 vial contains ~2 x10<sup>6</sup> cells in Cell freezing medium

# **Product description**

MV4-11/GFP-luciferase cells are derived from the human MV4-11 macrophage cell line by stably integration of a constitutive turboGFP and Firefly luciferase expression construct. MV4-11 cell line was generated from biphenotypic B myelomonocytic leukemia, has been widely used in cancer research and drug development. MV4-11/GFP-luciferase cells stably express turboGFP and Firefly luciferase, can be used for *in vitro* assays and *in vivo* imaging.

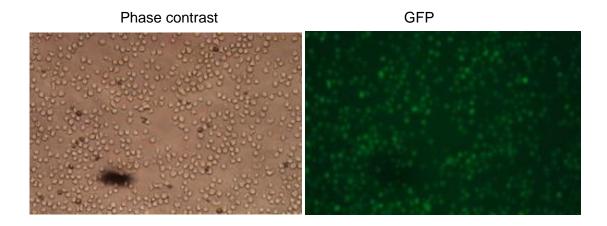


Figure 1. GFP expression in MV4-11/GFP-luciferase stable cell line

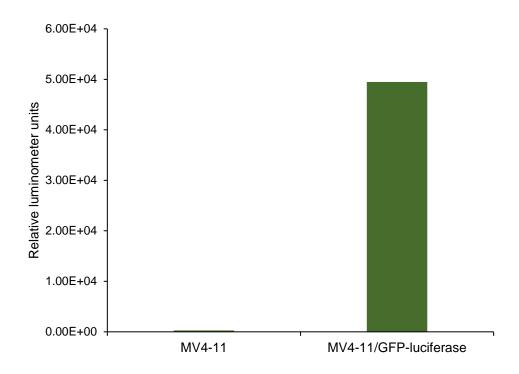


Figure 2. Firefly luciferase expression in MV4-11/GFP-luciferase stable cell line. The luminescence intensity of ~5000 cells was detected by Bright-Glo™ luciferase Assay System (Promega, Cat E2610).

# **Cell line description**

Organism: Homo sapiens (human)

Tissue: Peripheral blood
Cell Type: macrophage
Morphology: Lymphoblast
Culture Properties: Suspension

Disease: Biphenotypic B Myelomonocytic Leukemia

Biosafety Level: 2

#### Medium

- Complete culture medium: RPMI-1640, 10-20% 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: Fetal bovine serum (FBS), 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 2 ml of the Complete culture medium by gently pipetting up and down.
- 5. Transfer the cells to a T-25 suspension cell culture flask.
- 6. Place the cells in a 37°C incubator with 5% CO2.

### Sub-culturing

Cultures can be maintained by the addition of fresh medium or replacement of medium. Alternatively, cultures can be established by centrifugation with subsequent resuspension at 2 x 10<sup>5</sup> viable cells/ml. Maintain cell density between 1x10<sup>5</sup> and 2x10<sup>6</sup> viable cells/ml.

Renew or add fresh medium every 2-3 days.