

Product data sheet

MV4-11/Luciferase stable cell line

Catalog Number CL-1222 Storage: Liquid nitrogen

Components: 1 vial contains ~2 x10⁶ cells in Cell freezing medium

Product description

MV4-11/Luciferase cells are derived from the human MV4-11 macrophage cell line by stably integration of a constitutive 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/Luciferase cells express Firefly luciferase under the control of the CMV promoter, can be used for *in vitro* assays and *in vivo* imaging.

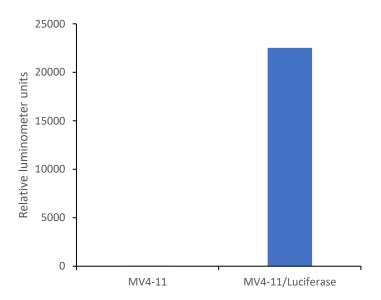


Figure 1. Firefly luciferase expression in MV4-11/luciferase stable cell line.

The luminescence intensity of ~3000 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% 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: RPMI-1640, 10% 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 4 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 addition or replacement of fresh medium. Start cultures at 2 X 10⁵ cells/mL and maintain between 1 X 10⁵ and 1 X 10⁶ cells/mL.