

## Product data sheet

KASUMI-1/GFP-luciferase stable cell line

Catalog Number CL-1490

Storage: Liquid nitrogen

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

## Product description

KASUMI-1/Luciferase cells are derived from the human KASUMI-1 myeloblast cell line by stably integration of a constitutive Firefly luciferase expression construct. KASUMI-1 cell line was generated from acute myeloblastic leukemia, has been widely used in cancer research and drug development. KASUMI-1/Luciferase cells stably express Firefly luciferase, can be used for *in vitro* assays and *in vivo* imaging.

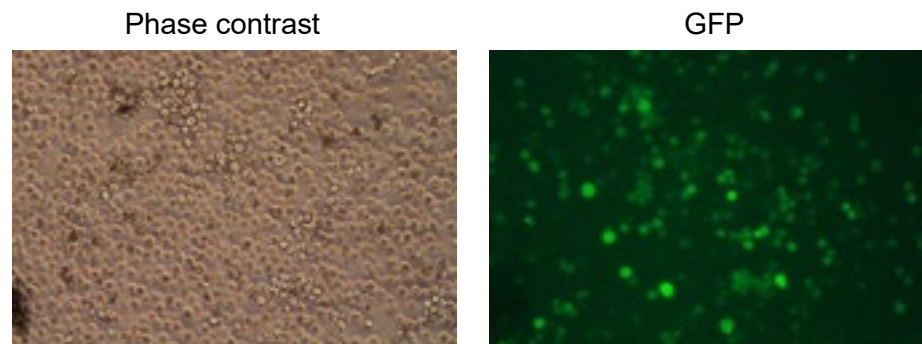


Figure 1. GFP expression in KASUMI-1/GFP-luciferase stable cell line

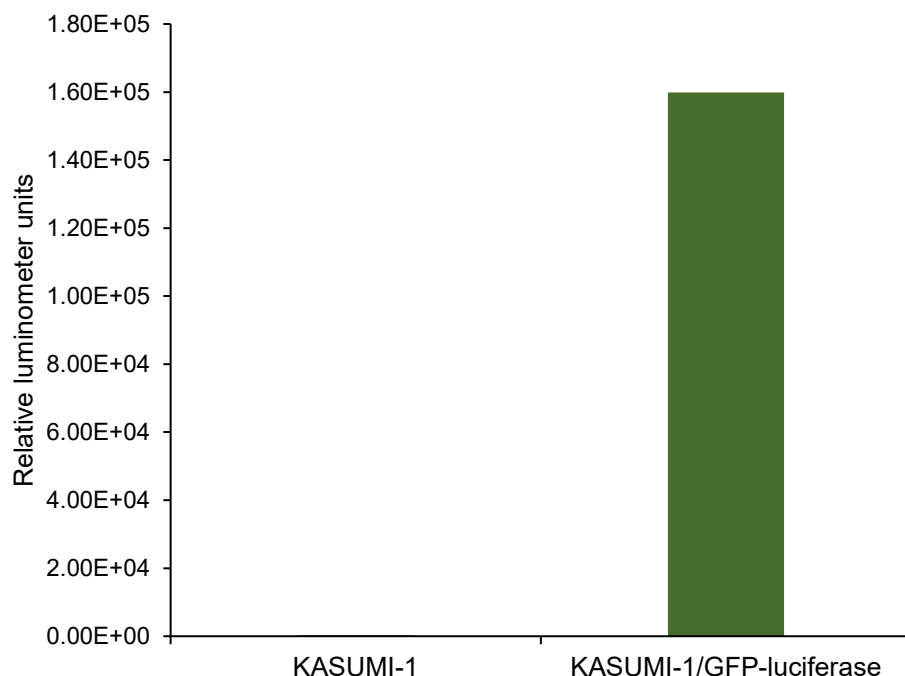


Figure 2. Firefly luciferase expression in KASUMI-1/GFP-luciferase stable cell line.

The luminescence intensity was detected by Bright-Glo™ luciferase Assay System (Promega, Cat E2610).

## Cell line description

Organism: Homo sapiens (human)

Tissue: Peripheral blood

Cell Type: myeloblast

Morphology: myeloblast

Culture Properties: Suspension

Disease: Acute myeloblastic leukemia

Biosafety Level: 2

## Medium

1. Complete culture medium: RPMI-1640, 20% fetal bovine serum (FBS)  
0.5 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, 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% CO<sub>2</sub>.

#### Sub-culturing

Cultures can be maintained by the addition of fresh medium. Alternatively, cultures can be established by centrifugation with subsequent resuspension at  $3 \times 10^5$  viable cells/ml. Maintain cell density between  $3 \times 10^5$  and  $3 \times 10^6$  viable cells/ml.

Renew or add fresh medium every 2-3 days.