SKOV3-GFP-LUC cells were generated from the human ovarian cancer cell line SKOV3 by transduction with replication-defective lentivirus encoding eGFP and luciferase. Expression of eGFP was confirmed by flow cytometry (Figure 1) and expression of luciferase was confirmed by luminescence after exposure to luciferin (Figure 2).

Storage

Store vial in liquid nitrogen immediately upon receipt.

Formulation

Cells are cryopreserved in 0.5 ml - 1 ml of 90% FBS + 10% DMSO.

Thaw Protocol

Partially immerse the vial in a 37°C water bath with gentle shaking until most of the medium is thawed. In a tissue culture hood, add 1 ml of pre-warmed culture medium into the vial and immediately transfer the contents of the vial to a centrifuge tube containing 5-10 ml of pre-warmed culture medium. Centrifuge the tube at room temperature for 5 minutes, aspirate the supernatant and suspend the cell pellet in 5-10 ml of pre-warmed culture medium.

Culture Protocol

SKOV3-GFP-LUC is an adherent cell line. Culture the cells in DMEM containing 10% FBS using a humidified incubator set to 5% CO2. When the cell monolayer is nearly confluent, use trypsin-EDTA to detach the cells from the culture flask and immediately neutralize the trypsin by adding fresh, pre-warmed culture medium to the cells. Cells should be passaged at least twice per week.

Notices & Disclaimer

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2600 Hilltop Dr, Building B, Richmond, CA 94806
1.866.339.0871 | info@promab.com
510.740.3625 | customerservice@promab.com

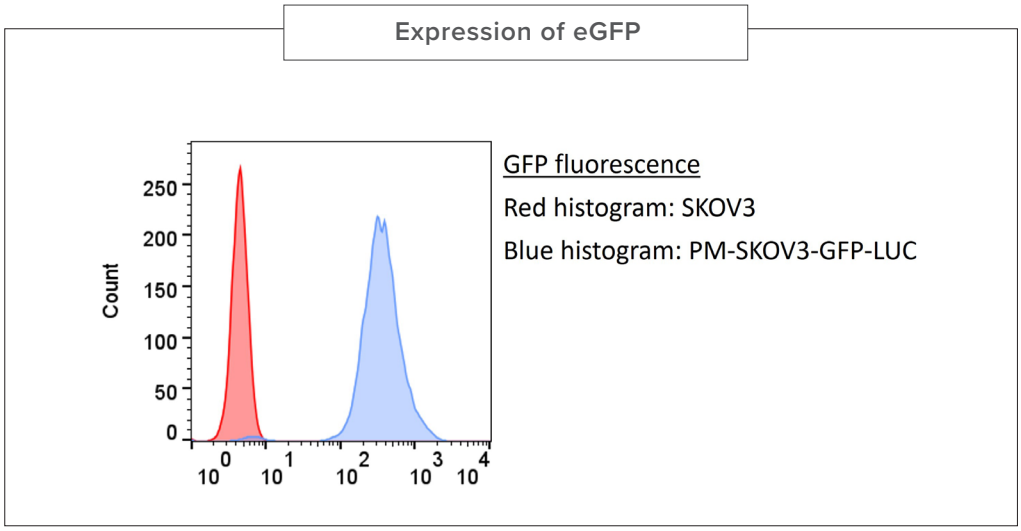

Figure 1. PM-SKOV3-GFP-LUC cells and parental SKOV3 cells were analyzed for GFP fluorescence by flow cytometry. Only the PM-SKOV3-GFP-LUC cells were fluorescent.

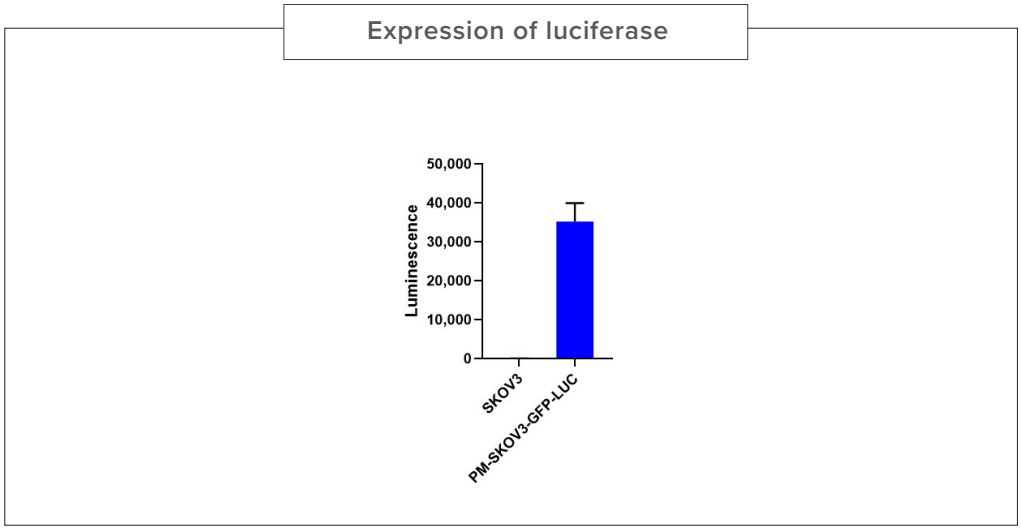

Figure 2. PM-SKOV3-GFP-LUC cells and parental SKOV3 cells were lysed and incubated with luciferin to assess luciferase expression. Only PM-SKOV3-GFP-LUC cells became luminescent.

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