

Research Use Only. Not for use in diagnostic procedures.

Bioware[®] Brite Cell Line SKOV3 Red-FLuc

Product No.: BW119276

Material Provided

Cells: 2 x 1 mL frozen aliquots (BW119276V)

Format: 1.0 x 10⁶ cells / mL in 95% FBS, 5% DMSO

DESIGNATION	SKOV3 Red-FLuc
Tissue	Human: ovarian adenocarcinoma
Source of Parental Line	ATCC (HTB-77)
Gene Transfer Vehicle	Red-FLuc -Puro 3d generation lentivirus
Bioluminescence In Vitro	At least 10,000 photons/cell/sec . Exact number will vary depending on imaging and culturing conditions.
Recommended Media	McCoy's 5a Modified Medium ATCC Cat. No. 30-2007. Supplement the above with 10% Hyclone Fetal Bovine Serum (FBS) GE HealthCare Cat. No. SH300071
Recommended Storage Conditions	Remove frozen cells from dry ice packaging and immediately place cells at a temperature below -130° C, preferably in liquid nitrogen vapor, until ready to use.
Average Doubling Time	35 hours
Other Recommendations	When initially thawing, use T25 flask or 10cm plate. Cells should be ready to expand within 2-5 days. Antibiotics can be used in the media if desired after the initial thaw (puromycin at 2ug/mL). Refer to Cell Culture Guidelines for more detailed instructions.

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The Features

Perkin Elmer Bioware® Brite cell line models offer researchers the ability to:

- Monitor early tumor development
- Monitor tumor growth and metastases *in vivo*
- Quantify tumor burden in the whole animal
- Follow responses to therapeutic treatments non-invasively in longitudinal studies using the same cohorts of mice

Murine Pathogen Free

All Perkin Elmer cell lines are confirmed to be pathogen free by the IMPACT Profile I (PCR) at the University of Missouri Research Animal Diagnostic and Investigative Laboratory.

Cell Line Stability

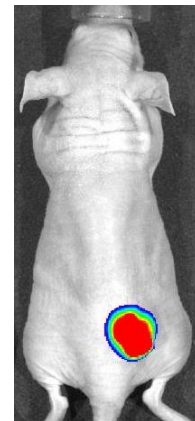
Cell may undergo genotypic changes resulting in reduced responsiveness over time in normal cell culture conditions. Genetic instability is a biological phenomenon that occurs in all stably transfected cells. Therefore, it is recommended to prepare an adequate number of frozen stock at early passages.

Product Warranty

PerkinElmer warrants that cells will be viable upon shipment from PerkinElmer for a period of thirty days, provided they have been properly stored and handled during this period.

Human Ovarian Cancer Cell Line: SKOV3 Red-FLuc

SKOV3 Red-FLuc is a luciferase expressing cell line which was stably transfected with firefly luciferase gene from *Luciola Italica* (Red-FLuc). The cell line was established by transducing lentivirus containing Red-FLuc luciferase under the control of human ubiquitin C promoter. These cells will serve as a new tool to detect drug efficacy *in vitro* and *in vivo* with high sensitivity.



Bioluminescence image
of SKOV3 Red-FLuc
subcutaneous tumor

Growth Curve of SKOV3 Red-FLuc cells

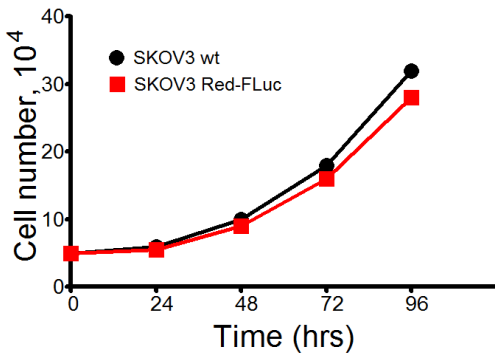


Figure 1. 4×10^4 cells were plated on 6cm plate and the total numbers of cells were counted every 24 h using a Nexcelom automatic cell counter.

In Vitro BLI Signal Stability

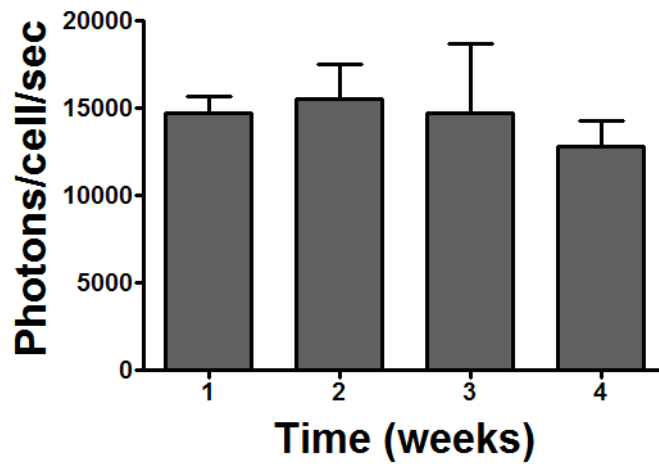
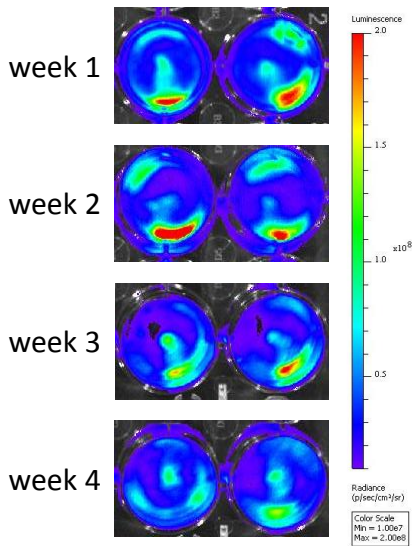
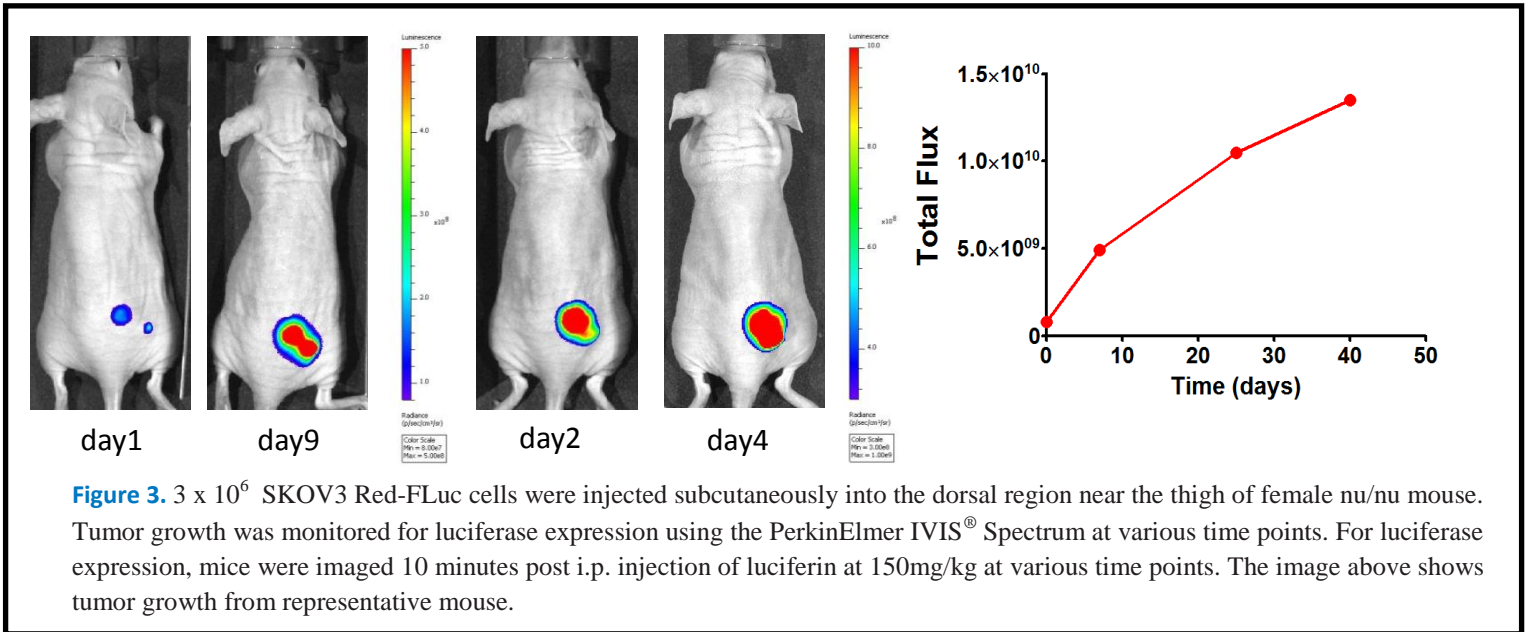
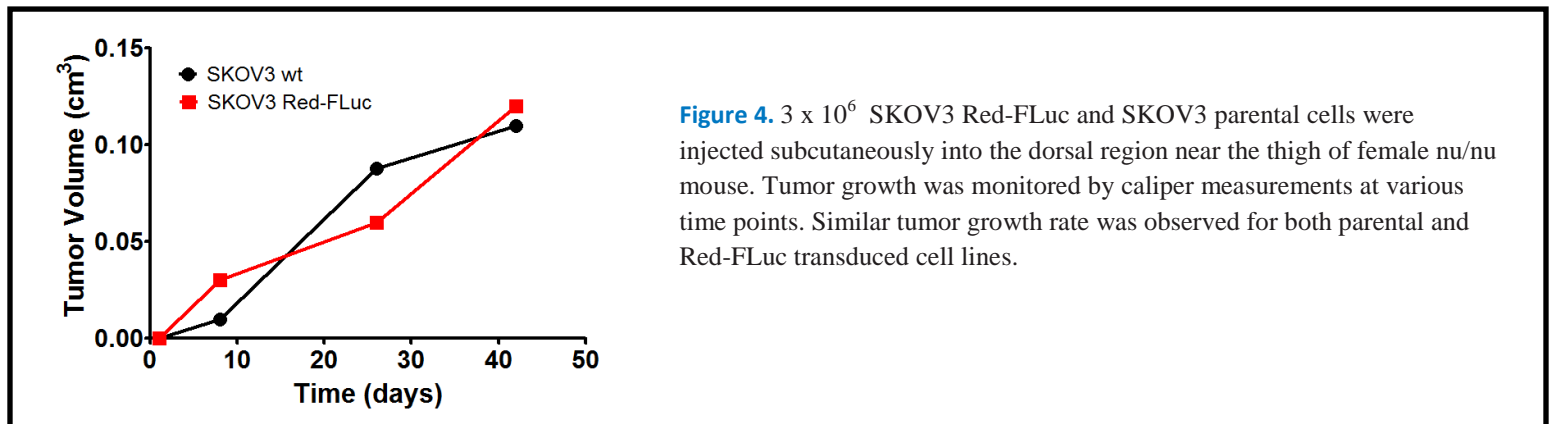


Figure 2. 5×10^4 cells were plated per well in 24-well plates. Cells were incubated at 37 °C for recovery overnight and luciferase assay was performed using the PerkinElmer IVIS[®] SpectrumCT. Each experiment was done in quadruplicates. The cells were maintained in continuous culture over four weeks and weekly luciferase assay was performed. Bioluminescence data was analyzed using the Living Image 4.0 software.

Subcutaneous Tumor Growth in a Nu/nu Mouse



Tumor Growth Comparison Between Wild Type and Red-FLuc Cells



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