IVISbrite[™] Bioluminescent Tumor Cell Line

IVISbrite[™] SKOV3 Red F-luc Bioluminescent Tumor Cell Line

Product Number: 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 F-luc
Tissue	Human: ovarian adenocarcinoma
Source of Parental Line	ATCC (HTB-77)
Gene Transfer Vehicle	Red F-luc -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. SH30071.
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.



The Features

Revvity IVISbrite[™] 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 Revvity 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

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

Human Ovarian Cancer Cell Line: SKOV3 Red F-luc

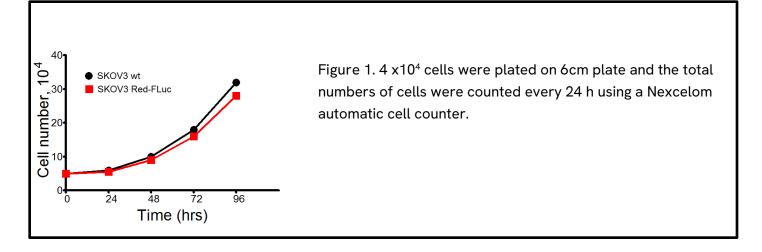
SKOV3 Red F-luc is a luciferase expressing cell line which was stably transfected with firefly luciferase gene from *Luciola Italica* (Red F-luc). The cell line was established by transducing lentivirus containing Red F -luc luciferase under the control of human ubiquitin C promoter. These cells will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



Bioluminescence image of SKOV3 Red F-luc subcutaneous tumor



Growth Curve of SKOV3 Red F-luc cells



In Vitro BLI Signal Stability

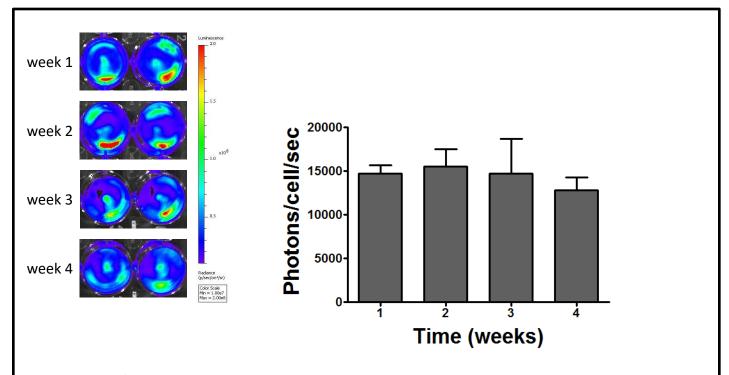


Figure 2. 5 x10⁴ cells were plated per well in 24-well plates. Cells were incubated at 37 °C for recovery overnight and luciferase assay was performed using the Revvity IVIS[®] SpectrumCT. Each experiment was done in quadruplicates. The cells were maintained in continuous culture over four weeks and weekly luciferase assay was performed. Bioluminescence data was analyzed using the Living Image 4.0 software.



Subcutaneous Tumor Growth in a Nu/nu Mouse

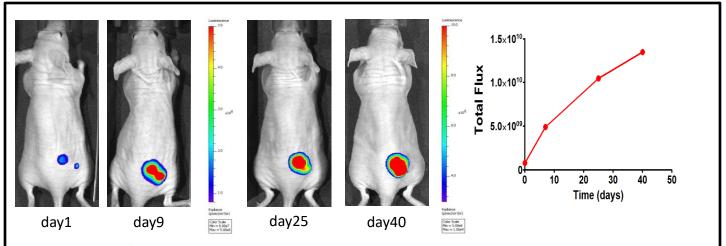


Figure 3. 3 x 10⁶ SKOV3 Red F-luc cells were injected subcutaneously into the dorsal region near the thigh of female nu/nu mouse. Tumor growth was monitored for luciferase expression using the Revvity IVIS[®] Spectrum at various time points. For luciferase expression, mice were imaged 10 minutes post i.p. injection of luciferin at 150mg/kg at various time points. The image above shows tumor growth from representative mouse.

Tumor Growth Comparison Between Wild Type and Red F-luc Cells

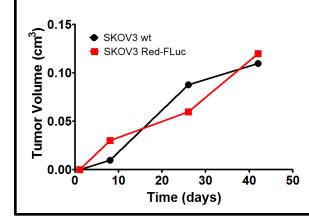


Figure 4. 3 x 10^6 SKOV3 Red F-luc and SKOV3 parental cells were injected subcutaneously into the dorsal region near the thigh of female nu/nu mouse. Tumor growth was monitored by caliper measurements at various time points. Similar tumor growth rate was observed for both parental and Red F-luc transduced cell lines.

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