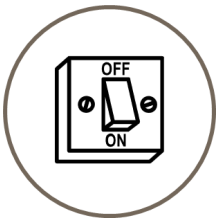
Stable Cell Lines

Custom Development Services

OriGene offers a comprehensive Stable Cell Line Development Service, allowing researchers to customize each step of the process to meet specific experimental needs. This service encompasses vector selection, cell line development, and validation, providing flexibility and control over the creation of stable cell lines.

Off-the-shelf

Custom made



Inducible

Cell Line Development Project Design

At OriGene, you have the power to customize every step of the stable cell line development process. From vector selection to final delivery, we offer a spectrum of options designed to cater to your specific needs.

Vector Selection	Cell Line Development	Cell Line Validation	Delivery
Subcloning	Cell line selection	Western Blot	Constitutive: 2-3 months
Gene Synthesis	Viral/non-viral transfection options	Mycoplasma Detection	Inducible: 3-4 months
Sequencing/ Expression Validation (**TrueORF Gold**)		Custom options available	
Inducible vs. Constitutive			

Inducible Stable Cell Line Development: For studies involving toxic targets or requiring controlled gene expression, OriGene's All-in-one Tet-On system provides a refined inducible expression platform. This system is designed to significantly stimulate the expression of the gene of interest upon induction, offering a valuable tool for functional analyses.

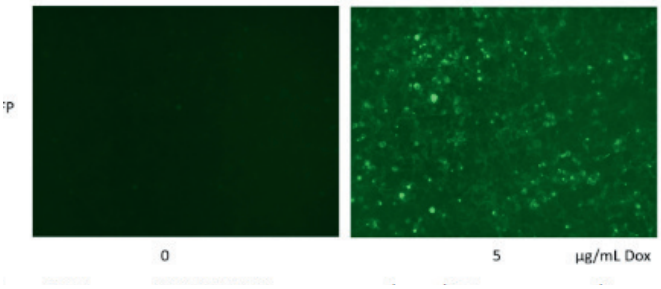


Figure 1. Human GPR37 cDNA gene was cloned into a mammalian Tet-On inducible vector (PS100133). HEK293T cells were transfected with a PS100133-GPR37 construct. Single stable HEK293T colonies were established after 4 weeks of hygromycin drug selection and treated with or without Dox at 5 µg/mL for 3 days. High GFP expression was observed by the treatment of Dox for 3 days.

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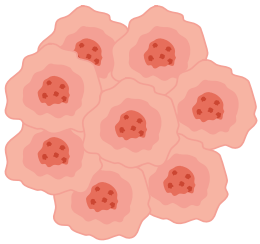
Stable Cell Lines

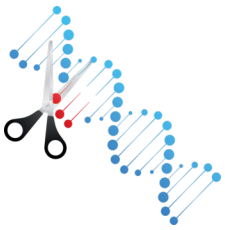
Stable cell lines available off-the-shelf

OriGene offers a comprehensive range of cell line products for cancer research and therapy development. Our **pre-made stable cancer cell lines**, suitable for in vivo tumor monitoring and in vitro visualization and immunocytochemistry, are available with Luciferase and/or GFP labeling for enhanced tracking and encompass a variety of tumor types, including breast, liver, pancreas, and colon.



Labeled cancer cell lines

Cancer biomarker mutant



CRISPR-CAS9

Cancer Biomarker Mutant Cell Lines are engineered with mutations found in oncogenes and tumor suppressor genes like KRAS and BRAF. These cell lines are crucial for studying cancer development and targeted therapy effectiveness. OriGene also provides **CRISPR-Cas9 stable cell lines**, enabling precise gene editing. With various cell types and selection markers available, these lines offer flexibility for diverse research applications.

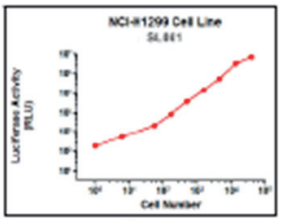


Figure 1. Luciferase activity of dual-labeled cancer cell line (NCi-H1299 Lung Cancer Cell Line

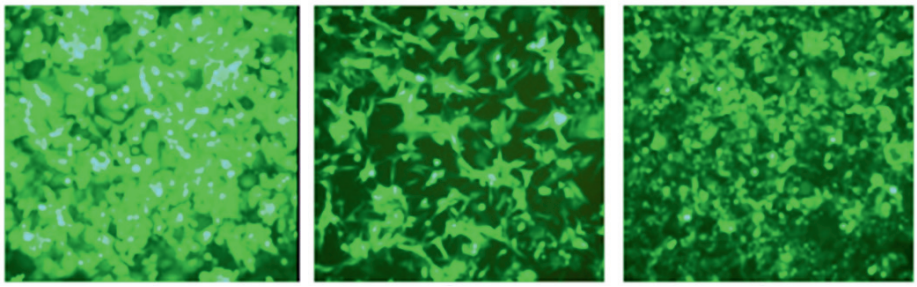


Figure 2. GFP labeled cancer cell lines; (a) NCI-H1299 Lung Cancer Cell Line, (b) NCI-H1975 Lung Cancer Cell Line, HCC70 Breast Cancer Cell Line

For researchers developing CAR-T cell therapies, we offer **luciferase-labeled cancer cell lines that express the CAR-T target**. These cell lines are labeled with firefly luciferase, allowing for sensitive detection and quantification of cell viability. They are essential for evaluating the effectiveness of CAR-T cell therapies.

These diverse stable cell line offerings from OriGene support a spectrum of cancer research needs, from basic biology studies to advanced therapeutic development.

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