

eLUCidate™



Luciferase Reporter Cell Lines

Cat. No.	Content	Amount
EL-P53HELA	eLUCidate™ HeLa, p53 Reporter Cell Line	2-3 x 10 ⁶ cells in 1 ml 90% FBS, 10% DMSO

Shipping	Dry ice
Storage	Liquid nitrogen

RELATED PRODUCTS	Catalog #
eLUCidate™ RAW 264.7, IL-8 Reporter Cell Line	EL-IL8RAW
eLUCidate™ HEK 293, AP-1 Reporter Cell Line	EL-AP1293
eLUCidate™ HEK 293, MIP-2 Reporter Cell Line	EL-MIP2293
eLUCidate™ RAW 264.7, MIP-2 Reporter Cell Line	EL-MIP2RAW
eLUCidate™ HEK 293, TNF-α Reporter Cell Line	EL-TNFA293
eLUCidate™ RAW 264.7, TNF-α Reporter Cell Line	EL-TNFARAW
eLUCidate™ HEK 293, TNF-β Reporter Cell Line	EL-TNFB293
eLUCidate™ RAW 264.7, TNF-β Reporter Cell Line	EL-TNFBRAW
eLUCidate™ HEK 293, GATA3 Reporter Cell Line	EL-GATA3293
eLUCidate™ HEK 293, NFAT Reporter Cell Line	EL-NFAT293
eLUCidate™ RAW 264.7, NFAT Reporter Cell Line	EL-NFATRAW
eLUCidate™ HeLa, STAT1 Reporter Cell Line	EL-STAT1HELA
eLUCidate™ RAW 264.7, STAT1 Reporter Cell Line	EL-STAT1RAW
eLUCidate™ HEK 293, STAT3 Reporter Cell Line	EL-STAT3293
eLUCidate™ RAW 264.7, INOS Reporter Cell Line	EL-INOSRAW
eLUCidate™ NIH-3T3, IL-6 Reporter Cell Line	EL-IL63T3
eLUCidate™ MCF7, Nrf2 Reporter Cell Line	EL-NRF2MCF7
eLUCidate™ HeLa, HRE Reporter Cell Line	EL-HREHELA
eLUCidate™ HEK 293, TCF/LEF Reporter Cell Line	EL-LEF293T
eLUCidate™ HEK 293T, RIG-I Reporter Cell Line	EL-RIGI293T
eLUCidate™ HEK 293T, MDA5 Reporter Cell Line	EL-MDA5293T
eLUCidate™ HEK 293, TLR3/IFNB Reporter Cell Line	EL-IFNB293
eLUCidate™ HEK 293, TLR3/ISRE Reporter Cell Line	EL-ISRE293
eLUCidate™ HeLa, TLR4/IL-8 Reporter Cell Line	EL-IL8HELA
eLUCidate™ RAW 264.7, NF-κB Reporter Cell Line	EL-NFKBRAW
eLUCidate™ HEK 293, NF-κB Reporter Cell Line	EL-NFKB293
eLUCidate™ HEK 293, TLR2/NF-κB Reporter Cell Line	EL-TLR2293
eLUCidate™ HEK 293, TLR3/NF-κB Reporter Cell Line	EL-TLR3293
eLUCidate™ HEK 293, TLR7/NF-κB Reporter Cell Line	EL-TLR7293
eLUCidate™ HEK 293, TLR8/NF-κB Reporter Cell Line	EL-TLR8293
eLUCidate™ HEK 293, TLR9/NF-κB Reporter Cell Line	EL-TLR9293
eLUCidate™ HEK 293, SRE Reporter Cell Line	EL-SRE293
eLUCidate™ HEK 293, SRF-RE Reporter Cell Line	EL-SRFRE293
eLUCidate™ HEK 293, CRE Reporter Cell Line	EL-CRE293

INTRODUCTION

The eLUCidate p53 reporter cell line is a stably transfected HeLa cell line which expresses Renilla luciferase reporter gene under the transcriptional control of the p53 response element. p53 is a tumor suppressor widely recognized as the guardian of the genome, reflecting its importance in ensuring the proper functioning of the cell. It is well-known for its function as a transcription factor, capable of mediating both transcriptional activation and repression, which brings about many cellular outcomes such as cell cycle arrest, apoptosis, cellular senescence and DNA repair. The eLUCidate p53 cell line is tested by inducing with doxorubicin.

MATERIALS AND METHODS

1. General Culture Conditions

Cells should be grown at 37°C with 5% CO₂ using **Growth Medium** (DMEM plus 10% FBS and 1% Pen/Strep). Where needed, add 3 µg/ml Puromycin.

2. Thawing and Growing Cells

- 2.1 Aliquot 10 ml of Growth Medium to a 15 ml sterile tube.
- 2.2 Remove cells from storage and quickly thaw in a 37°C water bath.
- 2.3 Transfer cells to the tube in 2.1.
- 2.4 Spin cells down at 1,000 rpm for 10 minutes.
- 2.5 Resuspend cells in pre-warmed Growth Medium.
- 2.6 Transfer cells to a T25 flask (or equivalent) and culture at 37°C in a CO₂ incubator.
- 2.7 At first passage, transfer cells into Growth Medium with Puromycin.
- 2.8 Split cells when they reach about 80-90% confluence.

3. Cell Passaging

- 3.1 Detach cells using Detachin™ Cell Detachment Solution (Cat #: T100100).
- 3.2 Add 10 ml Growth Medium with Puromycin to cells and transfer to a sterile 50 ml centrifuge tube.
- 3.3 Pellet cells by centrifuging at 1,000 rpm for 10 min.
- 3.4 Resuspend cells in Growth Medium with Puromycin to achieve 1:10 or 1:20 dilution ratio, and plate as needed.

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