

Luciferase Reporter Cell Lines

Cat. No.	Content	Amount
EL-NFKBRAW	eLUCidate™ RAW 264.7, NF-κB Reporter Cell Line	2-3 x 10 ⁶ cells in 1 ml 90% FBS, 10% DMSO

Shipping	Dry ice
Storage	Liquid nitrogen

INTRODUCTION

The eLUCidate NF-κB reporter cell line is a stably transfected RAW 264.7 cell line which expresses Renilla luciferase reporter gene under the transcriptional control of the NF-κB response element. NF-κB is a key transcription factor involved in immune and inflammatory responses, developmental processes, cellular growth, and apoptosis. The eLUCidate NF-κB reporter cell line is tested by inducing with various toll-like receptor (TLR) ligands and provides an effective way to monitor or screen for activators/inhibitors of the NF-κB signaling pathway.

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.

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™ HEK 293, NF-κB Reporter Cell Line		EL-NFKB293
eLUCidate™ HeLa, p53 Reporter Cell Line		EL-P53HELA
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

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.

LIMITED LICENSE: The purchase price paid for the eLUCidate™ Reporter Cell Lines (hereto "eLUCidate") grants end users a non-transferable, non-exclusive license to use the cells for internal research use only as described in this manual; in particular, research use only excludes and without limitation, resale, repackaging, or use for the making or selling of any commercial product or service without the written approval of Genlantis -- separate licenses are available for resale or other commercial applications. eLUCidate is not to be used for human research, diagnostic applications, or included/used in any drug intended for human use. Care and attention should be exercised in handling eLUCidate by following appropriate research laboratory practices and kit instructions, including the proper use of protective lab wear during use. Purchasers may refuse this license by returning the enclosed materials unused. By keeping or using Attachin, you agree to be bound by the terms of this license as governed by the laws of the State of California.