

eLUCidate™



Genlantis

A Division of Gene Therapy Systems, Inc.

Luciferase Reporter Cell Lines

| Cat. No. | Content | Amount |
|------------|--|---|
| EL-ISRE293 | eLUCidate™ HEK 293, TLR3/ISRE 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, NF-κB Reporter Cell Line | EL-NFKBRAW |
| eLUCidate™ RAW 264.7, IL-8 Reporter Cell Line | EL-IL8RAW |
| 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 293, AP-1 Reporter Cell Line | EL-AP1293 |
| 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™ 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 |

INTRODUCTION

The eLUCidate TLR3/ISRE reporter cell line is a stably transfected HEK 293 cell line which expresses full-length human Toll-like receptor 3 (TLR3) and Renilla luciferase reporter gene under the transcriptional control of the interferon stimulated response element (ISRE). The eLUCidate TLR3/ISRE reporter cell line is functionally validated by TLR3 ligand assay, in which upon activation by poly (I:C), TLR3 quickly initiates TRIF-dependent signaling pathway and mediates nuclear translocation of IRF3 that induces ISRE activity.

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 and 5 µg/ml Blasticidin.

2. Thawing and Growing Cells

- 2.1 Aliquot 10 ml of Growth Medium to a 15 ml sterile tube.
- 2.2 Quickly thaw cells 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 and Blasticidin.
- 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 and Blasticidin 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 and Blasticidin 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.