



Optimized Luciferase Reporter Gene Vector Set

87654™

Storage Conditions

Product format: Freeze-dried

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends

that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Host: *Escherichia coli* HB101 (ATCC 33694)

Notes

Restriction digests of the clone give the following sizes (kb): BamHI--4.8, 0.6; EcoRI--3.2, 2.2.

- ATCC staff

The vector contains modified luciferase (luc+) gene from the firefly *Photinus pyralis* in order to increase the yield of recoverable luciferase activity after transfection and to eliminate potential cryptic regulatory elements.

The vector contains the human cytomegalovirus (CMV) enhancer upstream of the tk promoter.

- BioTechniques 23: 436-438, 1997

This combination confers strong transcriptional activation not only in a variety of vertebrate cell lines, but also in vivo in whole fish embryos injected with the vector DNA.

- BioTechniques 23: 436-438, 1997

The optimized luciferase reporter gene vectors (ATCC 87630 - 87633) provide valuable tools for the analysis of eukaryotic regulatory DNA elements.

- BioTechniques 23: 436-438, 1997

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Optimized Luciferase Reporter Gene Vector Set (ATCC 87654)

References

References and other information relating to this material are available at www.atcc.org.

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Product Sheet

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Contact Information

ATCC

10801 University Boulevard

Manassas, VA 20110-2209

USA

US telephone: 800-638-6597

Worldwide telephone: +1-703-365-2700

Email: tech@atcc.org or contact your local distributor
