pLUC Phagemid in *Escherichia coli* HB101

77414™

Description

This is a promoter-cloning vector for analysis of eukaryotic promoters, using the luciferase reporter gene. It differs from pLUCS (ATCC# 77415) only in the polylinker. It was constructed from pSVOALdelta5? by inserting a 2.6 kb BamHI fragment, containing the firefly (Photinus pyralis) luciferase gene and SV40 sequences in the BamHI site of pBluescriptSK+, followed by the removal of the 3? BamHI site. It permits beta-galactosidase blue/white color selection for identification of recombinants. The color is weaker than from the parent vector and transformed cells may need to be grown 18-24 hours at 37^0C. The order of the major features in the phagemid is: 3? lacZ ? XhoI/MCS/BamHI ? 5? luc 3? ? SV40 small t intron ? SV40 polyadenylation signal ? NotI ? SstII ? 5? lacZ ? pMB1 ori ? ampR ? f1 ori.

Clone type: Vector

Shipping information: *Escherichia coli* containing the phagemid

Storage Conditions

Product format: Freeze-dried

Storage conditions: 2°C to 8°C

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.

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Certificate of Analysis

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

Vector Information

Construct size (kb): 5.40
Vector name: pLUC (phagemid)
Construction: pSVOALdelta5', pBluescriptSK+
Insert detection: lacZ'
Markers: ampR
Promoters: lac
Replicon: pMB1; f1
Terminator: SV40 polyadenylation

Growth Conditions

Medium:
ATCC Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin
Temperature: 37°C

Notes

Restriction digests of the clone gave the following sizes (in kb): BamHI 5.4 ; HindIII 5.4; XhoI 5.4. ATCC Staff

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pLUC Phagemid in *Escherichia coli* HB101 (ATCC 77414)

References

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

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Revision

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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