



ptkLUC+

87632™

Description

Clone type: Vector

Host: *Escherichia coli* HB101 (ATCC 33694)

Storage Conditions

Product format: Frozen

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

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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): 4.710999965667725

Intact vector size: 4.711

Vector name: ptkLUC+ (plasmid)

Type of vector: plasmid

Host range: vertebrate cells

Vector information: Other unique sites: NarI BclI FseI ClaI SmaI KpnI SacI PvuII BsaI BglI FspI PvuI XmnI SspI

Cloning sites: HindIII; Sall; BamHI; ClaI; SmaI; KpnI; SacI

Markers: ampR

MCS: HindIII...BamHI, ->, 1-36

Polylinker sites: HindIII; Sall; BamHI; [tk-promoter luc+ SV40 poly (A)] ClaI; SmaI; KpnI; SacI

Promoters: TK, 37-200

Replicon: pMB1, 2587-2587

Reporter group: luciferase (luc+), ->, 238-1890

Terminator: SV40 late polyadenylation, 1922-2143; SV40 large T-antigen polyadenylation, 4337-4708

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 give the following sizes (kb): BamHI--4.7;
HindIII--4.7.

- 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 vectors pTATALUC+ (ATCC 87631) and ptkLUC+ (ATCC 87632) were designed for the characterization of isolated cis regulatory elements. The promoters driving luc+ transcription in these two vectors represent different 5' deletions of the tk promoter ending at -32 and -105, respectively.

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: ptkLUC+ (ATCC 87632)

References

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

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