

pBluc*

Description

Organism: Photinus pyralis, firefly

Clone type: Vector

Host: Escherichia coli DH5alpha

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.

BSL₁

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.

Certificate of Analysis





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

Insert Information

Insert size (kb): 1.7

Type of DNA: genomic

Insert information:

Insert 5' end: Asp718 Modification: filled in Insert 3' end: Xbal Modification: filled in Cross references: DNA Seq. Acc.: U03687

Nucleotides 1-1707 of the insert correspond to

nucleotides 784-2490 of U03687.

Genome: firefly

Target gene: luciferase, modified **Gene name:** luciferase, modified

Gene product: luciferase, modified [luc*]

Gene symbol: luc*

Contains complete coding sequence: Yes

Vector Information

Construct size (kb): 4.699999809265137

Intact vector size: 2.964

Vector name: pBluescript SK+ **Type of vector:** phagemid

Construction: pUC19; pBluescript SK+, pUHC131-1

Host range: *Escherichia coli*

Vector end: Smal closer to BamHI site; Smal

Cloning sites: Kpnl; Eco0109l; Apal; Drall; Xhol; Sall; Hincll; Accl; Clal; Bsp106l; Hindlll;

EcoRV; EcoRI; Pstl; Smal; BamHI; Spel; Xbal; EagI; Notl; SacII; BstXI; SacI

Coding sequence: luc*

Enhancer: none

Insert detection: lacZ'

Markers: ampR





MCS: Kpn...Sacl

Polylinker sites: Kpnl; Eco0109l; Apal; Drall; Xhol; Sall; Hincll; Accl; Clal; Bsp106l; Hindlll; EcoRV; EcoRI; Pstl; Smal; BamHI; Spel; Xbal; Eagl; Notl; SacII; BstXI; SacI

Promoters: In vitro transcription T7 (phi10); lac; T3

Replicon: pMB1, f1 **Terminator:** none

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/PstI--3.0, 1.7; BamHI/BstEII--4.0, 0.7; NcoI--4.7.

- ATCC staff

One of two vectors (ATCC 87108 and 87109) containing a luciferase gene altered to conserve amino acid sequence and function but to remove internal restriction sites to facilitate excision.

- Gene 141: 75-77, 1994

These constructs differ in their orientation. The sites listed in the polylinker (MCS) can be used to excise the gene for insertion into another plasmid.

- Gene 141: 75-77, 1994

Material Citation

If use of this material results in a scientific publication, please cite the material in the





following manner: pBluc* (ATCC 87109)

References

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

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