pTATALUC+

87631™

Description

Clone type: Vector
Host: *Escherichia coli* HB101 (ATCC 33694)

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.

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): 4.64300012588501
Intact vector size: 4.643
Vector name: pTATALUC+ (plasmid)
Type of vector: plasmid
Host range: vertebrate cells
Cloning sites: HindIII; PstI; SalI; BamHI; ClaI; SmaI; KpnI; SacI; EcoRI
Markers: ampR
MCS: HindIII...BamHI, ->, 1-36
Polylinker sites: HindIII; PstI; SalI; BamHI; [tk-promoter luc+ SV40 poly (A)] ClaI; SmaI; KpnI; SacI; EcoRI
Promoters: truncated TK promoter, 37-131
Replicon: pMB1, 2519-2519
Reporter group: luciferase (luc+), ->, 170-1822
Terminator: SV40 late polyadenylation, 1854-2075; SV40 large T-antigen polyadenylation, 4269-4640

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--4.6; HindIII--4.6; EcoRI--4.6.
- 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.
- Biotechniques 23: 436-438, 1997

The vectors pTATALUC+ (ATCC 87631) and ptkLUC+ (ATCC 87632) were designed for the characterization of isolated cis regulatory elements.
- Biotechniques 23: 436-438, 1997

The promoters driving luc+ transcription in these two vectors represent different 5' deletions of the tk promoter ending at -32 and -105, respectively.
- Biotechniques 23: 436-438, 1997

The vector pTATALUC+ carries only the TATA box to avoid interference of the tk-derived CAAT and GC boxes with the regulatory elements of interest.
- 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: pTATALUC+ (ATCC 87631)

References

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

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