pJIR751 [JIR2439]

87016™

Description

Shuttle expression vector derived from pJIR418 (ATCC# 77387) permitting expression of antibiotic resistance in both hosts. The erythromycin resistance gene (ermBP), expressed in both *Clostridium perfingens* and *Escherichia coli*, was derived from *C. perfingens* and is inactivated by insertions at the ScaI site. The vector contains the following restriction sites (approximate kb from the EcoRI site): BglI ? 0.2, 2.50; NdeI ? 0.27, 2.09; PvuI ? 0.17; PvuII ? 0.14, 5.78; ScaI ? 4.45; SmaI ? 4.98. The order of the major features of the plasmid are: lacZ? ? EcoRI/MCS/HindIII lacZ? - pIP404 ori ? rep ? ermBP ? pMB1 ori.

Clone type: Vector

Shipping information: *Escherichia coli* containing the plasmid

Storage Conditions

Product format: Frozen

Storage conditions: -80°C or colder

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): 5.95
Vector name: pJIR751 (plasmid)
Type of vector: plasmid
Construction: pJIR418
Vector information:
other: rep
Insert detection: lacZ'
Markers: eryR; ermBP
MCS: /strong> EcoRI...HindIII
Promoters: lac
Replicon: pIP404; pMB1

Growth Conditions

Medium:
ATCC Medium 2305: 1065 plus erythromycin (150 mcg/ml)
Temperature: 37°C

Notes

The standard reverse sequencing primer is not useful with this vector due to the duplication of the 181 bp region between pUC18 sites PvuII and EcoRI.Restriction digests of the vector give the following sizes (kb): BglI 3.85, 2.1; PvuI 5.95; SmaI 5.95. ----------ATCC staff

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pJIR751 [JIR2439] (ATCC 87016)

References

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

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