



pJIR750 [JIR2438]

87015™

Description

Shuttle expression vector derived from pJIR418 (ATCC# 77387) permitting expression of antibiotic resistance in both hosts. The chloramphenicol resistance gene (catP), expressed in both *Clostridium perfringens* and *Escherichia coli*, was derived from *C. perfringens* and is inactivated by insertions at the EcoRV site. The vector contains the following restriction sites (approximate kb from the EcoRI site): BglI ? 0.2, 2.50; ClaI ? 4.99, 5.03; EcoRV ? 4.72; NdeI ? 0.27, 2.09; PvuI ? 0.17; PvuII ? 0.14, 6.39; SmaI ? 4.98.

The order and orientation of the major features of the plasmid are: lacZ? ?

EcoRI/MCS/HindIII lacZ? - pIP404 ori ? βrep ? βcatP ? pMB1 ori. ?

Plasmid 29: 233-235, 1993.

Clone type: Vector

Shipping information: *Escherichia coli* containing the plasmid in glycerol stock

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

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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): 6.567999839782715

Vector name: pJIR750 (plasmid)

Type of vector: plasmid

Construction: pJIR418

Vector information:

other: rep

Insert detection: lacZ'

Markers: cmpR; cmlR; catP

MCS: EcoRI...HindIII

Promoters: lac

Replicon: pIP404; pMB1

Growth Conditions

Medium:

ATCC Medium 1675: LB Agar/Broth (1065) w/ 10ug/ml Chloramphenicol

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 4.4, 2.2; ClaI 6.6; EcoRV 6.6

- ATCC staff

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pJIR750 [JIR2438] (ATCC 87015)

References

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

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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
