



pJAK12 [JK386] 77287™

Description

Clone type: Vector

Host: *Escherichia coli* SCS1

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

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): 10.80000019073486

Intact vector size: 10.800

Vector name: pJAK12 (plasmid)

Type of vector: plasmid

Construction: pMMB67EH (ATCC 37622), R100.1

Host range: broad host range

Cloning sites: EcoRI; SacI; Ecl136II; KpnI; SmaI; XmaI; BamHI; XbaI; SalI; PstI; HindIII

Markers: strR; spcR

MCS: EcoRI...HindIII, ->

Polylinker sites: EcoRI; SacI; Ecl136II; KpnI; XmaI; SmaI; BamHI; XbaI; AccI; SalI; HincII; PstI; SphI; HindIII

Promoters: tac

Replicon: oriV; oriT; RSF1010

Repressor gene: lacIq

Restriction sites: SphI; SphI

Terminator: rrnB

Transcription terminator: rrnB

Growth Conditions

Medium:

ATCC Medium 1445: Nutrient agar/broth w/ streptomycin 20 ug/ml

Temperature: 37°C

Notes

Restriction digests of the clone give the following sizes (kb): EcoRI--10.8; HindIII--10.8; SphI--9.7, 1.1.

- ATCC staff

A shuttle vector permitting autoregulated high-level expression in all gram-negative bacteria. Compatible with common E. coli cloning vectors, as well as vectors derived from IncP and IncW plasmids. Belongs to a group of vectors (ATCC 37622-37623, 77287-77292) differing only in antibiotic resistance and polylinker orientation.

- personal communication

Can be mobilized by conjugative IncP helper plasmids [e.g. pRK2013 (ATCC 37159), pUB307] into *Klebsiella aerogenes*, *Proteus mirabilis*, *Pseudomonas aeruginosa*, *Serratia marcescens*, and other gram-negative bacteria.

- Gene 48: 119-131, 1986

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pJAK12 [JK386] (ATCC 77287)

References

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

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Revision

This information on this document was last updated on 2024-10-25

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