pJAK14 [JK388]

77289™

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): 11.0
Intact vector size: 11.000
Vector name: pJAK14 (plasmid)
Type of vector: plasmid
Construction: pMMB67EH (ATCC 37622), Tn5
Host range: broad host range
Cloning sites: EcoRI; SacI; Ecl136II; KpnI; BamHI; XbaI; HindIII
Markers: neoR; kanR
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
Terminator: rrnB
Transcription terminator: rrnB

Growth Conditions

Medium:
ATCC Medium 1236: LB Medium (ATCC medium 1065) with 25 mcg/ml kanamycin
Temperature: 37°C

Notes

Restriction digests of the clone give the following sizes (kb): EcoRI--11.0; HindIII--11.0; PstI--8.2, 1.85, 1.0.
- 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. Differs from pJAK15 (ATCC 77290) only in the orientation of the polylinker.
- 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: pJAK14 [JK388] (ATCC 77289)

References

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

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