ATCC

Product Sheet

pJAK14 [JK388] (ATCC® 77289™)

Please read this FIRST

Biosafety Level
1

Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: pJAK14 [JK388] (ATCC® 77289™)

Shipping Information

Distributed: freeze-dried

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Designation: pJAK14 [JK388]
Distribution Host:
Distribution host: *Escherichia coli* SCS1

Propagation

Medium
ATCC® Medium 1236: LB Medium (ATCC medium 1065) with 25 mcg/ml kanamycin

Growth Conditions
Temperature: 37.0°C

Vector Information

Size (kb): 11.0000000000000000
DESCRIPTION OF VECTOR:
Intact vector size: 11.000
Type of vector: plasmid
Cloning sites: EcoRI SacI Ecl136II KpnI BamHI XbaI HindIII
Polylinker sites: EcoRI SacI Ecl136II KpnI XmaI SmaI BamHI XbaI AccI SalI
HincII PstI SphI HindIII
Construction: pMMB67EH (ATCC 37622), Tn5
Host range: broad host range; Escherichia coli
Features (with orientation and position when available):
promoter: tac
MCS: EcoRI...HindIII, ->
transcription terminator: rrnB
marker(s): kanR (neoR)
replicon: oriV
replicon: oriT
replicon: RSF1010
repressor gene: lacIq
Vector: pJAK14 (plasmid)
Promoters: Promoter tac
Construction: pMMB67EH (ATCC 37622), Tn5
Marker(s):kanR (neoR)
Construct size (kb): 11.0
Features: marker(s): kanR (neoR)
promoter: tac
replicon: RSF1010
replicon: oriT
replicon: oriV
repressor gene: lacIq
MCS: EcoRI...HindIII
transcription terminator: rrnB

References

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

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.

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- 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

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

Additional information on this culture is available on the ATCC web site at www.atcc.org.
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