



Product Sheet

# pJAK14 [JK388] (ATCC® 77289™)

Please read this **FIRST**



## 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](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

## Description

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

## Propagation

**Growth Conditions**  
**Temperature:** 37.0°C  
**Medium**  
ATCC® Medium 1236: LB Medium (ATCC medium 1065) with 25 mcg/ml kanamycin

## Vector Information

Size (kb): 11.000000000000000  
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](http://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](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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