



# pJAK16 [JK396] 77291™

Product Sheet

## Description

**Clone type:** Vector

**Host:** *Escherichia coli* XL1-Blue

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## Storage Conditions

**Product format:** Freeze-dried

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## 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.

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## 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.

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

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## Vector Information

**Construct size (kb):** 12.60000038146973

**Intact vector size:** 12.600

**Vector name:** pJAK16 (plasmid)

**Type of vector:** plasmid

**Construction:** pMMB67EH (ATCC 37622), pSa

**Host range:** broad host range

**Cloning sites:** EcoRI; SacI; Ecl136II; KpnI; BamHI; XbaI; Sall; PstI; HindIII

**Markers:** cmlR

**MCS:** EcoRI...HindIII, ->

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

**Promoters:** tac

**Replicon:** oriV; oriT; RSF1010

**Repressor gene:** lacIq

**Terminator:** rrnB

**Transcription terminator:** rrnB

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## Growth Conditions

**Medium:**

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

**Temperature:** 37°C

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## Notes

Restriction digests of the clone give the following sizes (kb): EcoRI--12.6; HindIII--12.6; SphI--9.0, 3.6.

- 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

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pJAK16 [JK396] (ATCC 77291)

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## References

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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