



# pRS426 phagemid in *E. coli*

77107™

## Description

This is a YE-type shuttle vector encoding the beta-galactosidase alpha peptide, permitting blue-white visual detection. It can be used to produce ssDNA and it contains promoters for in vitro RNA synthesis and priming sites useful for sequencing. It also contains the REP3 and FRT sequences necessary for high copy propagation in yeast. In *S. cerevisiae*, the copy number is about 20 per haploid cell. In non-selective growth, plasmids are lost through mitotic segregation at rates in the range of 4.4 +/- 1.4% of progeny per doubling.

**Clone type:** Vector

**Shipping information:** *Escherichia coli* containing the phagemid

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## Storage Conditions

**Product format:** Frozen

**Storage conditions:** -80°C or colder

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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):** 5.726

**Vector name:** pRS426 (phagemid)

**Construction:** pJS92, pRS306, pBluescript II SK+

**Insert detection:** lacZ'

**Markers:** ampR; URA3

**MCS:** KpnI...SacI

**Promoters:** T7 (phi10); T3; lac

**Replicon:** 2 micron; f1; pMB1

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## Growth Conditions

**Medium:**

ATCC Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin

**Temperature:** 37°C

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## Notes

Restriction digests of the clone gave the following sizes (in kb): BamHI 5.8 ; EcoRI 5.8; PstI 4.0, 1.7 ; PvuII 5.2, 0.54. ATCC Staff

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pRS426 phagemid in E. coli (ATCC 77107)

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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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## Contact Information

ATCC

10801 University Boulevard

Manassas, VA 20110-2209

USA

US telephone: 800-638-6597

Worldwide telephone: +1-703-365-2700

Email: [tech@atcc.org](mailto:tech@atcc.org) or contact your local distributor

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