



# p416 ADH plasmid in *Escherichia coli*

87376™

## Description

This vector is a YX-type (yeast expression) shuttle vector with a low copy number. It also has the ADH promoter for expression and the URA3 yeast marker. The wild type ADH promoter is active when cells are grown in glucose media but can be repressed 2-10 fold on non-fermentable carbon sources. This is one of 31 yeast expression vectors in a set (ATCC® 87669™) differing in promoter (GPD, TEF, ADH, CYC1), selection marker (HIS3, TRP1, LEU2, URA3), and replicon (CEN6/ARSH4, 2 micron).

**Clone type:** Vector

**Host:** *Escherichia coli* HB101 (ATCC 33694)

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## Storage Conditions

**Product format:** Frozen

**Storage conditions:** -70°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):** 6.62

**Vector name:** p416 ADH (plasmid)

**Type of vector:** plasmid

**Construction:** pRS416

**Markers:** ampR; URA3

**MCS:** XhoI...XbaI

**Promoters:** Expression: ADH

**Replicon:** CEN6/ARSH4

**Terminator:** CYC1

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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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## Handling Procedures

1. Open vial according to instructions.
2. Transfer a loopful to a test tube containing 5 mL LB+ ampicillin (50-100

µg/mL). A loopful of culture can also be streaked on an agar plate of the same. Incubate cultures at 37°C.

3. Isolate DNA using standard plasmid preparation procedures.

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## Notes

Restriction digests of the clone gave the following sizes (in kb): SacI/XbaI ? 5.1, 1.5 ; KpnI ? 6.6 ; EcoRI ? 6.6.

?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: p416 ADH plasmid in *Escherichia coli* (ATCC 87376)

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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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