



# pAD2 87469™

## Description

**Clone type:** Vector

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

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## Storage Conditions

**Product format:** Frozen

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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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## Insert Information

**Target gene:** 2-aminoadipate reductase

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## Vector Information

**Construct size (kb):** 6.352

**Intact vector size:** 6.352

**Vector name:** pAD2 (phagemid)

**Type of vector:** phagemid

**Construction:** pRS406

**Host range:** *Saccharomyces cerevisiae*; *Escherichia coli*

**Vector information:**

Other unique sites: BamHI

other: LYS2 deleter cassette

other: LYS2 deleter cassette

**Markers:** ampR; URA3

**Replicon:** f1,  $\leftarrow$ ; 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 give the following sizes (kb): KpnI--6.3;  
KpnI/SstI--4.3, 2.0; ClaI--6.3.

- ATCC staff

Deleter vector for constructing designer yeast strains with a non-revertable deletion of a *lys2* auxotrophic marker.

- Yeast 14: 115-132, 1998

The two step selection process requires a *ura3* transformation host (this host can be created using pJL164 (ATCC 87471)). After transformation with the *Clal* linearized vector, URA3 integrants are selected on *ura-* plates.

- Yeast 14: 115-132, 1998

The designer deletion strain is then recovered by selection on 5-FOA plates (loss of URA3 and LYS2 markers by a homologous recombination event).

- Yeast 14: 115-132, 1998

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pAD2 (ATCC 87469)

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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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## Revision

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