



Product Sheet

## pAD2 (ATCC® 87469™)

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: pAD2 (ATCC® 87469™)

### 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:** pAD2

**Distribution Host:**

Distribution host: *Escherichia coli* unknown (ATCC 33694)

**Media:**

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

### Conditions

**Temperature:** 37°C

### Vector Information

Size (kb): 6.352

DESCRIPTION OF VECTOR:

Intact vector size: 6.352

Type of vector: phagemid

Cloning sites:

Polylinker sites:

Other unique sites: BamHI

Construction: pRS406

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

Features (with orientation and position when available):

marker(s): URA3, ->

replicon: f1, <-

other: LYS2 deleter cassette

replicon: pMB1

marker(s): ampR, <-

Vector: pAD2 (phagemid)

Construction: pRS406

Marker(s): URA3, ampR

Construct size (kb): 6.352

Features: marker(s): URA3

marker(s): ampR

other: LYS2 deleter cassette

replicon: f1

replicon: pMB1

### 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): 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 ClaI 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

### Biosafety Level: 1



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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.

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**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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