



Product Sheet

## YCplac33 (ATCC® 87586™)

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: YCplac33 (ATCC® 87586™)

### 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:** YCplac33

**Distribution Host:**

Distribution host: *Escherichia coli* HB101 (ATCC 33694)

### Propagation

**Growth Conditions**

**Temperature:** 37.0°C

**Medium**

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

### Vector Information

Size (kb): 5.6030001640319820

DESCRIPTION OF VECTOR:

Intact vector size: 5.603

Type of vector: plasmid

Cloning sites: EcoRI SacI KpnI SmaI BamHI XbaI HincII AclI SalI PstI SphI HindIII

Polylinker sites: EcoRI SacI KpnI SmaI BamHI XbaI HincII AclI SalI PstI SphI HindIII

Other unique sites: EcoRV NdeI AatII NarI SpeI NaeI NheI BglII ClaI NsiI StuI

Construction: pUC19

Host range: *Saccharomyces cerevisiae*/*Candida robusta*; *Escherichia coli*

Features (with orientation and position when available):

promoter: lac, -, 143-171

insert detection: lacZ', -, 216-500

MCS: HindIII...EcoRI, -, 234-285

centromere: CEN4, 504-1480

replicon: ARS1, 1481-2225

marker(s): URA3, <-, 2563-3365

marker(s): ampR, -, 3802-4662

replicon: pMB1, 5420-5420

Vector: YCplac33 (plasmid)

Promoters: Promoter lac

Construction: pUC19

Marker(s):URA3,ampR

Construct size (kb): 5.603000164031982

Features: insert detection: lacZ'

marker(s): URA3

marker(s): ampR

promoter: lac

replicon: ARS1

replicon: pMB1

MCS: HindIII...EcoRI

centromere: CEN4

### 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): Aval-3.7, 1.9;

Clal-5.7; PstI-5.6.

- ATCC staff

One of 9 shuttle vectors (ATCC 87585 - 87593) allowing lacZ detection of cloned inserts and containing the pUC19 MCS with all 10 cloning sites unique. Vectors differ in mode of replication (YE, YC or YI-type) and yeast marker (LEU2, URA3 or TRP1).



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- Gene 74: 527-534, 1988

The PstI restriction site from the URA3 gene of *S. cerevisiae* were removed by using oligo-directed mutagenesis.

- Gene 74: 527-534, 1988



### Biosafety Level: 1

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.

### ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

### 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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