ATCC

Product Sheet

YCplac22 (ATCC® 87585™)

Please read this FIRST

Biosafety Level
1

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: YCplac22 (ATCC® 87585™)

Shipping Information

Distributed: freeze-dried

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Designation: YCplac22
Distribution Host:
Distribution host: *Escherichia coli* HB101 (ATCC 33694)
Media:
ATCC® Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin

Conditions

Temperature: 37.0°C

Vector Information

Size (kb): 4.8540000915527340
DESCRIPTION OF VECTOR:
Intact vector size: 4.854
Type of vector: plasmid
Cloning sites: EcoRI SacI KpnI SmaI BamHI XbaI HincII AccI SalI PstI SphI HindIII
Polylinker sites: EcoRI SacI KpnI SmaI BamHI XbaI HincII AccI SalI PstI SphI HindIII
Other unique sites: EcoRV XcaI AatII NarI SpeI NaeI NheI BglII
Construction: pUC19
Host range: Saccharomyces cerevisiaeCandida 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): TRP1, <-, 2063-2740
marker(s): ampR, ->, 3053-3913
replicon: pMB1, 4666-4666
Vector: YCplac22 (plasmid)
Promoters: Promoter lac
Construction: pUC19
Marker(s):TRP1,ampR
Construct size (kb): 4.854000091552734
Features: insert detection: lacZ'
marker(s): TRP1
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.

Notes

Restriction digests of the clone give the following sizes (kb): AvaI--2.9, 1.9; HindIII--4.8; XbaI--4.8.
- 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).
- Gene 74: 527-534, 1988

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The HindIII, PstI and the XbaI sites from the TRP1 gene of the 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

Additional information on this culture is available on the ATCC web site at www.atcc.org.
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