YCplac33

87586™

Description

Clone type: Vector
Host: *Escherichia coli* HB101 (ATCC 33694)

Storage Conditions

Product format: Frozen

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.

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.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Insert Information

Target gene: beta-galactosidase

Vector Information

Construct size (kb): 5.603000164031982
Intact vector size: 5.603
Vector name: YCplac33 (plasmid)
Type of vector: plasmid
Construction: pUC19
Host range: *Saccharomyces cerevisiae*; *Candida robusta*; *Escherichia coli*
Cloning sites: EcoRI; SacI; KpnI; SmaI; BamHI; XbaI; HincII; AccI; SalI; PstI; SphI; HindIII
Insert detection: lacZ', ->, 216-500
Markers: ampR; URA3
MCS: HindIII...EcoRI, ->, 234-285
Polylinker sites: EcoRI; SacI; KpnI; SmaI; BamHI; XbaI; HincII; AccI; SalI; PstI; SphI; HindIII
Promoters: lac
Replicon: ARS1, 1481-2225; pMB1, 5420-5420

Growth Conditions

Medium:
ATCC Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin
Temperature: 37°C

Notes

Restriction digests of the clone give the following sizes (kb): AvaI--3.7, 1.9;

ClaI--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).
- 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

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: YCplac33 (ATCC 87586)

References

References and other information relating to this material are available at www.atcc.org.

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