pUT11 [URA3 --> TRP1 converter]

87553™

Description

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

Storage Conditions

Product format: Freeze-dried

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

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

Insert Information

Target gene: URA3 --> TRP1

Vector Information

Construct size (kb): 6.699999809265137
Intact vector size: 6.700
Vector name: pUT11 (plasmid)
Type of vector: plasmid
Construction: pUC19
Host range: *Saccharomyces cerevisiae*; *Escherichia coli*
Vector information:
gene disruption cassette: ura3::TRP1/kanR
Features: gene disruption cassette: ura3::TRP1/kanR
Markers: kanR; ampR; TRP1
Replicon: pMB1
Restriction sites: EcoRI; SmaI

Growth Conditions

Medium:
ATCC Medium 1948: LB medium (ATCC medium 1065) with 50 mcg/ml ampicillin and 20 mcg/ml kanamycin
Temperature: 37°C

Notes

Restriction digests of the clone give the following sizes (kb): HindIII--4.6,

2.0; SmaI--3.8, 2.7.
- ATCC staff

A marker swap vector designed to change the S. cerevisiae host phenotype by one-step gene disruption of the URA3 gene with the TRP1 and kanR markers.
- Yeast 13: 647-653, 1997

To convert the host phenotype from URA3 to TRP1, transform with the SmaI digested vector and select for Trp+ transformants.
- Yeast 13: 647-653, 1997

Some combinations of marker swap plasmids and target locus may result in relatively high reversion rates. In most but not all cases the frequencies of successful convertants are greater than 30%.
- Yeast 13: 647-653, 1997

When swapping markers on an episomal plasmid, appropriate phenotype may result from loss of the plasmid unless a second selectable or scorable marker is used to ensure plasmid maintenance.
- Yeast 13: 647-653, 1997

Vector was constructed by replacing an internal StuI fragment of URA3 with a SmaI fragment containing the TRP1 and kanR coding sequences. TRP1 and URA3 are in the same orientation.
- Yeast 13: 647-653, 1997

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pUT11 [URA3 --> TRP1 converter] (ATCC 87553)

References

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

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