pdeltaADE2

99604™

Description

Clone type: Vector
Host: *Escherichia coli* MC1066

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: ATP phosphoribosyltransferase; uridine monophosphate synthetase

Vector Information

Construct size (kb): 8.4
Intact vector size: 8.400
Vector name: pdeltaADE2 (plasmid)
Type of vector: plasmid
Construction: pBluescript, URA3, hisG, ADE2 sequences
Host range: *Saccharomyces cerevisiae*; *Escherichia coli*
Vector information:
other: ADE2 flanking sequence
other: ADE2 flanking sequence
other: ADE2 flanking sequence
Coding sequence: hisG, ->; hisG, ->; hisG
Markers: ampR; URA3
Replicon: pMB1
Restriction sites: BamHI

Growth Conditions

Medium:
ATCC Medium 2057: M9 salts with supplements
Temperature: 37°C

Notes

Restriction digests of the clone give the following sizes (kb): BamHI--5.2, 3.2; EcoRI--5.0, 3.4; HindIII--7.0, 1.3.
- ATCC staff

E. coli containing plasmid should be grown on medium lacking pyrimidines to select for URA3-containing cells.
- personal communication

The 5.2 kb BamHI insert contains two direct repeats of the Salmonella hisG gene flanking URA3 and about 700 bp of homology to sequences upstream and downstream
of the ADE2 gene flanking the hisG-URA3-hisG sequence.
- Cell 66: 1279-1287, 1991

This deleter vector is used to create designer yeast strains with a non-revertable ade2 auxotrophic marker deletion.
- Cell 66: 1279-1287, 1991

The two step selection process requires a ura3 transformation host (this host can be created using pJL164 (ATCC 87471)). After transformation with the BamHI digested plasmid, URA3 integrants are selected on ura- plates.
- Cell 66: 1279-1287, 1991

The designer deletion strain is then recovered by selection on 5-FOA plates (loss of URA3 and ADE2 markers by a homologous recombination event between the two hisG repeats).
- Cell 66: 1279-1287, 1991

The deleted host retains the coding sequence for six C-terminal amino acids of ADE2.
- Cell 66: 1279-1287, 1991

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pdeltaADE2 (ATCC 99604)

References

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

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Revision

This information on this document was last updated on 2021-05-19

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