pAD4

87470™

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: O-acetylhomoserine sulfhydrylase

Vector Information

Construct size (kb): 7.375
Intact vector size: 7.375
Vector name: pAD4 (phagemid)
Type of vector: phagemid
Construction: pRS406
Host range: *Saccharomyces cerevisiae*; *Escherichia coli*
Vector information:
Other unique sites: BamHI
other: MET15 deleter cassette
other: MET15 deleter cassette
Markers: ampR; URA3
Replicon: f1, ←; pMB1

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): KpnI--4.2, 3.1; KpnI/SacI--4.2, 3.1, 0.03; ClaI--7.4.

- ATCC staff

MET15, MET17 and MET25 are synonymous.
- SGD

This deleter vector is used to create designer yeast strains with a non-revertable met15 auxotrophic marker deletion.
- Yeast 14: 115-132, 1998

The two step selection process requires a ura3 transformation host (this host can be created using pJL164 (ATCC 87471)). After transformation with the ClaI linearized vector, URA3 integrants are selected on ura- plates.
- Yeast 14: 115-132, 1998

The designer deletion strain is then recovered by selection on 5-FOA plates (loss of URA3 and MET15 markers by a homologous recombination event).
- Yeast 14: 115-132, 1998

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pAD4 (ATCC 87470)

References

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

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Contact Information

ATCC
10801 University Boulevard
Manassas, VA 20110-2209
USA
US telephone: 800-638-6597
Worldwide telephone: +1-703-365-2700
Email: tech@atcc.org or contact your local distributor