pAM34

77185™

Description

Clone type: Vector
Host: *Escherichia coli* JS219

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

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

Vector Information

Construct size (kb): 6.0
Intact vector size: 6.000
Vector name: pAM34 (plasmid)
Type of vector: plasmid
Construction: pBR322, R100.1, pCK1
Host range: *Escherichia coli*
Cloning sites: BamHI; SalI; PstI; SphI; XmaIII; HindIII; EcoRI; SacI; KpnI
Insert detection: T4gene32 ter
Markers: spcR; ampR
Polylinker sites: BamHI; SalI; PstI; SphI; HindIII; EcoRI; SacI; KpnI; BamHI
Replicon: pMB1
Repressor gene: lacIq

Growth Conditions

Medium:
ATCC Medium 1122: LB with IPTG medium (ATCC medium 1065) with 10 ml/L filter-sterilized 100 mM IPTG (isopropylthio-beta-galactoside)
Temperature: 37°C

Notes

Restriction digests of the clone give the following sizes (kb): EcoRI--6.0; BamHI--4.3, 1.8; HindIII--6.0; PstI--6.0; KpnI--3.4, 2.7.
- ATCC staff

Integration vector permitting positive selection for inserts.
- Gene 105: 17-22, 1991

Transcription of the replication primer RNA is regulated by the lacZpo promoter/operator. In the presence of lacIq, replication is entirely dependent on the presence of inducer.
- Gene 105: 17-22, 1991

The repressible replication system permits temporary maintenance of the plasmid, construction of strains with stable integrants of vector derivatives, and recovery of sequences adjacent to cloned fragments.
- Gene 105: 17-22, 1991

Can be selected with 100 ug/mL ampicillin and/or 75 ug/mL spectinomycin. Permits positive selection because deletion of the aadA fragment is not viable.
- Gene 105: 17-22, 1991

The order of the major features in this plasmid is: lacZpo - ori - rom - transcription terminator - BamHI - MCS - XmaIII - aadA (spcR) - MCS - BamHI - transcription terminator - bla - lacIq.
- Gene 105: 17-22, 1991

pAM35 (ATCC 77186) differs from pAM34 (ATCC 77185) by deletion of the DraII fragment in pAM34 carrying lacIq.
- Gene 105: 17-22, 1991

E. coli JS219 is MC1061 malPp delta534::lacIq.
- Nucleic Acids Res. 16: 6327-6338, 1988

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pAM34 (ATCC 77185)

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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