PES5(2) Plasmid in *Escherichia coli*

53098™

Description

Clone type: Clone
Host: *Escherichia coli* LE392
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Patent number:
4,769,319
Technical information: ATCC Product Experience does not have technical information on patent deposits that are not produced or characterized by ATCC. Additional information can be found in the corresponding patent available from the patent holder or with the U.S. and/or international patent office.

Storage Conditions

Product format: Freeze-dried

Intended Use

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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

Insert size (kb): 0.29999999999999999
Type of DNA: genomic
Insert source: liver
Insert tissue: Liver
Genome: bovine
Target gene: male-specific DNA
Gene name: male-specific DNA
Gene product: male-specific DNA
Contains complete coding sequence: Unknown
Insert end: RsaI or EcoRI

Vector Information

Construct size (kb): 4.659999847412109
Intact vector size: 4.363
Vector name: pBR322

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Type of vector: plasmid
Construction: pBR313
Host range: *Escherichia coli*
Vector end: PstI
Vector information:
Cross references: DNA Seq. Acc.: J01749
Cloning sites: EcoRI; ClaI; HindIII; EcoRV; BamHI; SphI; SalI; XmaIII; NruI; BspMI; BsmI; StyI; AvaI; BalI; BspMII; PvuII; Tth111I; NdeI; AflIII; PpaI; PstI; PvuI; ScaI; SspI; AatII
Markers: ampR; tetR
Replicon: pMB1

Growth Conditions

Medium:
ATCC Medium 1273: LB medium (ATCC medium 1065) with 20 mcg/ml tetracycline
Temperature: 37°C

Notes

Restriction digests of the clone give the following sizes (kb): EcoRI--4.6; RsaI--2.2, 2.0, 0.6; PstI--4.4, < 0.5; BamHI--4.6.
- ATCC staff

Isolated from a library constructed by digesting genomic male DNA with RsaI followed by EcoRI. The 2.5 to 6 kb size fraction was dCMP-tailed and cloned into dGMP-tailed pBR322. Insert contains bovine male-specific DNA for use in sexing embryos using as few as 6 cells (<100 picograms DNA) with nearly 100% accuracy. To be used in conjunction with pES8 (ATCC 53099). pES5(2) (ATCC 53098) does not hybridize to pES8 (ATCC 53099) under stringent conditions. Neither probe hybridizes with female bovine total DNA (Hereford) nor with either sex of swine or sheep.
- U.S. Pat. 4,769,319 dated Sept. 6, 1988

.patent

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: PES5(2) Plasmid in *Escherichia coli* (ATCC 53098)

References

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

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