



pES8 [SMD 0242]

53099™

Product Sheet

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

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

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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): 0.63

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): 4.989999771118164

Intact vector size: 4.363

Vector name: pBR322

Type of vector: plasmid

Construction: pBR313

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Host range: *Escherichia coli*

Vector end: PstI

Vector information:

Cross references: DNA Seq. Acc.: J01749

Cloning sites: EcoRI; ClaI; HindIII; EcoRV; BamHI; SphI; SalI; XmaII; NruI; BspMI; BsmI; Styl; Aval; Ball; BspMII; PvuII; Tth111I; NdeI; AflIII; PpaI; PstI; PvuI; Scal; 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--5.0;

RsaI--2.5 (doublet); PstI--4.2, 0.60.

- 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) with nearly 100% accuracy. To be used in conjunction with pES5(2) (ATCC 53098). 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: pES8 [SMD 0242] (ATCC 53099)

References

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

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