ATCC

Product Sheet

pKS3 [KS334] (ATCC® 53583™)

Escherichia coli

Please read this FIRST

Biosafety Level
1

Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Escherichia coli* (ATCC® 53583™)

Shipping Information

Distributed: freeze-dried

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Designation: pKS3 [KS334]

Notes

Restriction digests of the clone give the following sizes (kb): BamHI--uncut; EcoRI--4.4, 1.55, 0.35; PstI--6.0; HindIII--6.0.
- ATCC staff

pKS3 encodes a Tsr-alkaline phosphatase chimeric protein, with Tsr being N-terminal and anchoring the protein in the membrane. The alkaline phosphatase portion is exposed in the periplasm and retains activity. If the chimeric protein is degraded by proteases, the alkaline phosphatase becomes soluble in the periplasm and retains activity. The host chromosome contains an insertionally inactivated gene for the periplasmic protease htrA (degP), and thus shows reduced protease activity and increased stability of periplasmic proteins.
- Proc. Natl. Acad. Sci. USA 85: 1576-1580, 1988

.patent

Distributed In

Distribution host: *Escherichia coli* KS334

Insert Information

DNA: genomic
DESCRIPTION OF INSERT COMPONENT:
Genome: Escherichia coli
Gene symbol: phoA
Gene name: alkaline phosphatase
Contains complete coding sequence?: U
Localization: 9 min
Genome: Escherichia coli
Gene symbol: tsr
Gene name: methyl-accepting chemotaxis protein I (inner membrane protein)
Contains complete coding sequence?: U
Type of DNA: genomic
Insert end:
Insert end:
Insert size (kb):
Cross references:
Gene product: methyl-accepting chemotaxis protein I (inner membrane protein) [tsr]
Target Gene: methyl-accepting chemotaxis protein I (inner membrane protein)

Vector Information

Construct size (kb): 6.0
DESCRIPTION OF VECTOR COMPONENT:
Name of vector: pBR322
Intact vector size: 4.363
Type of vector: plasmid
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
Polylinker sites:
Construction: pBR313
Host range: Escherichia coli
Features (with orientation and position when available):
marker(s): tetR
replicon: pMB1

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marker(s): ampR
Cross references: DNA Seq. Acc.: J01749

Propagation

Growth Conditions
Temperature: 30.0°C
Medium
ATCC® Medium 1896: 1065 plus ampicillin (100 mcg/ml) and XP (40 mcg/ml)

References

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

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

Additional information on this culture is available on the ATCC web site at www.atcc.org.

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