ATCC

Product Sheet

pNKY1009 (ATCC® 87624™)

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: pNKY1009 (ATCC® 87624™)

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: pNKY1009
Distribution Host:
Distribution host: *Escherichia coli* FD 27747 (ATCC 35673)
Media:
ATCC® Medium 2057: M9 salts with supplements

Conditions

Temperature: 37°C

Vector Information

Size (kb): 9.60
DESCRIPTION OF VECTOR:
Intact vector size: 9.600
Type of vector: plasmid
Cloning sites:
Polylinker sites:
Other unique sites: PvuII
Construction: YRp7, pNKY51
Host range: Saccharomyces cerevisiaeCandida robusta; Escherichia coli
Features (with orientation and position when available):
restriction site: EcoRI
coding sequence: 3' TRP1, <-
coding sequence: hisG, ->
marker(s): URA3, ->
coding sequence: hisG, ->
coding sequence: 5' TRP1, <-
restriction site: BglII
coding sequence: ROP, ->
replicon: pMB1
marker(s): ampR, <-
replicon: ARS1, ->
Vector: pNKY1009 (plasmid)
Construction: YRp7, pNKY51
Marker(s):URA3,ampR
Construct size (kb): 9.60
Features: marker(s): URA3
marker(s): ampR
replicon: ARS1
replicon: pMB1
restriction site: BglII
restriction site: EcoRI
coding sequence: 3' TRP1
coding sequence: 5' TRP1
coding sequence: ROP
coding sequence: hisG

References

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

Notes

Restriction digests of the clone give the following sizes (kb): BglII--9.6; EcoRI--5.2, 4.4; BglII/EcoRI--4.6, 4.4, 0.6.
- ATCC staff

E. coli containing plasmid should be grown on medium lacking pyrimidines to select for URA3-containing cells.
- personal communication

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The 4.6 kb EcoRI/BglII insert contains two direct repeats of the Salmonella hisG gene flanking URA3 plus TRP1 sequences flanking the hisG-URA3-hisG sequence.
- Genetics 116: 541-545, 1987

This deleter vector is used to create yeast strains with a trp1 auxotrophic marker deletion.
- Genetics 116: 541-545, 1987

The two step selection process requires a ura3 transformation host (this host can be created using pJL164 (ATCC 87471)). After transformation with the EcoRI/BglII digested plasmid, URA3 integrants are selected on ura- plates.
- Genetics 116: 541-545, 1987

The deletion strain is then recovered by selection on 5-FOA plates (loss of URA3 marker by a homologous recombination event between the two hisG repeats).
- Genetics 116: 541-545, 1987

The plasmid was constructed by inserting the 3.8 kb BamHI-BglII hisG-URA3-hisG fragment into the modified EcoRV site within the TRP1 gene of YEp7.
- Genetics 116: 541-545, 1987

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.

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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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