pNKY1009

87624™

Description

Clone type: Vector
Host: *Escherichia coli* FD 27747 [DB6507] (ATCC 35673)

Storage Conditions

Product format: Frozen

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.

Insert Information

Target gene: ATP phosphoribosyltransferase; uridine monophosphate synthetase

Vector Information

Construct size (kb): 9.60
Intact vector size: 9.600
Vector name: pNKY1009 (plasmid)
Type of vector: plasmid
Construction: YRp7, pNKY51
Host range: *Saccharomyces cerevisiae*; *Candida robusta*; *Escherichia coli*
Vector information:
Other unique sites: PvuII
Features (with orientation and position when available):
Coding sequence: 3' TRP1, <-; hisG, ->; hisG, ->; 5' TRP1, <-; ROP, ->; 3' TRP1; 5' TRP1; ROP; hisG
Markers: ampR; URA3
Replicon: pMB1; ARS1, →
Restriction sites: BglII; EcoRI

Growth Conditions

Medium:
ATCC Medium 2057: M9 salts with supplements
Temperature: 37°C

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

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

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pNKY1009 (ATCC 87624)

References

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

Warranty

The product is provided 'AS IS' and the viability of ATCC® products is warranted for 30 days from the date of shipment, provided that the customer has stored and handled the product according to the information included on the product information sheet, website, and Certificate of Analysis. For living cultures, ATCC lists the media formulation and reagents that have been found to be effective for the product. While other unspecified media and reagents may also produce satisfactory results, a change in the ATCC and/or depositor-recommended protocols may affect the recovery, growth, and/or function of the product. If an alternative medium formulation or reagent is used, the ATCC warranty for viability is no longer valid. Except as expressly set forth herein, no other warranties of any kind are provided, express or implied, including, but not limited to, any implied warranties of merchantability, fitness for a particular purpose, manufacture according to cGMP standards, typicality, safety, accuracy, and/or noninfringement.

Disclaimers

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. Any proposed commercial use is prohibited without a license from ATCC.

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 or complete and the customer bears the sole responsibility of confirming the accuracy and completeness of any such information.

This product is sent on the condition that the customer is responsible for and assumes all risk and responsibility in connection with the receipt, handling, storage, disposal, and use of the ATCC product including without limitation taking all appropriate safety and handling precautions to minimize health or environmental risk. As a condition of receiving the material, the customer agrees that any activity undertaken with the ATCC product and any progeny or modifications will be conducted in compliance with all applicable laws, regulations, and guidelines. This product is provided 'AS IS' with no representations or warranties whatsoever except as expressly set forth herein and in no event shall ATCC, its parents, subsidiaries, directors, officers, agents, employees, assigns, successors, and affiliates be liable for indirect, special, incidental, or consequential damages of any kind in connection with or arising out of the customer's use of the product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of such materials.

Please see the material transfer agreement (MTA) for further details regarding the use of this product. The MTA is available at www.atcc.org.

Copyright and Trademark Information

Revision

This information on this document was last updated on 2024-10-25

Contact Information

ATCC
10801 University Boulevard
Manassas, VA 20110-2209
USA
US telephone: 800-638-6597
Worldwide telephone: +1-703-365-2700
Email: tech@atcc.org or contact your local distributor