pNK2811

77355™

Description

This construct permits translational fusions of kan to target genes. Kanamycin resistance is expressed after transpositions in the correct orientation and reading frame into an expressed target gene. It contains a 2.2 kb mini-Tn10 cassette conferring erythromycin resistance and a promoterless kan gene (`kan gene), bounded by inverted repeats of the outermost 70 bp of IS10R and embedded (as an EcoRI/HindIII fragment) in hisG and hisD. It also contains the wild type transposase gene regulated by the Ptac promoter, inducible by IPTG, oriented opposite to `kan, and separated from `kan by 4 tandem repeats of the rrnB terminator. The order of the major features in the insert is: XbaI ? HindIII ? transposase ? Ptac ? rrnB terminators ? HindIII ? `kan ? erm ? EcoRI ? XbaI. - Methods Enzymol. 204: 139-180, 1991.

Organism: *Escherichia coli* (Migula) Castellani and Chalmers
Clone type: Clone
Shipping information: *Escherichia coli* containing the plasmid

Storage Conditions

Product format: Freeze-dried
Storage conditions: 2°C to 8°C

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

Insert size (kb): 7.2000000000000002
Type of DNA: genomic
Target gene: transposase; Tn10
Gene product: transposase, Tn10

Vector Information

Construct size (kb): 9.199999809265137

Growth Conditions

Medium:
ATCC Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin
Temperature: 37°C

Handling Procedures

1. Open vial according to instructions.2. Asceptically add 0.3 to 0.4 mL of liquid medium to the freeze-dried pellet and mix well. Transfer 100 *u*L to a test tube containing 5 mL LB+ ampicillin (50-100 ug/mL). A loopful of culture can also be streaked on an agar plate of the same. Incubate cultures at 37°C. 3. Isolate DNA using standard plasmid preparation procedures.

Notes

Restriction digests of the clone give the following sizes (kb) : EcoRI 9.2 ; HindIII 6.6, 2.5 ; PstI 5.2, 2.95, 0.98 ; XbaI 6.8, 2.1. ATCC Staff

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pNK2811 (ATCC 77355)

References

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

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