pDEST45y

SB-1003™

Description

pDEST45y is a *Saccharomyces cerevisiae/Escherichia coli* shuttle vector in the ATCC® Synthetic Biology Yeast Tool Kit. It contains two Gateway® recombination *att* sites (*att*R2 and *att*R4) for the assembly of a promoter and a gene via the Gateway® LR reaction (Gateway® Technology User Manual). For the detailed Gateway® reaction, please refer to the manufacturer's instructions. An ADH1 transcriptional terminator is located downstream of *att*R2. The transcription unit (TU), consisting of a promoter, a gene, and the terminator, can be released from the vector by a rare-cut restriction enzyme, *I-SceI*. Two 45 bp unique nucleotide sequences (UNS-4: GGTGAATTCCCTTATGTGAGTGTAAAAGGCAGGCGAGTTTGTCCC and UNS-5: GGTTGCTTGCAAAAGCAGTAATTGGAAAGCACTCTCAAAGAATCC) in the vector flanking the TU determine the TU's position for building multiple transcription units (detailed information is described in the ATCC® Synthetic Biology Solutions User Guide).

Volume: 2 µg to 3 µg

Storage Conditions

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.

Vector Information

Construct size (kb): 6.282
Type of vector: Destination vector
Markers: cmR; ampR

Handling Procedures

Before opening the vial, centrifuge at 6,000 x g for 30 seconds. Add 30 µL of Molecular Grade Water and incubate the vial at 4°C overnight to dissolve the DNA. Each vial contains 2-3 µg plasmid DNA (measured by PicoGreen® dsDNA quantitation assay).

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pDEST45y (ATCC SB-1003)

References

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

Warranty

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