pENTR_L1L2_LitR

SB-1089™

Description

pENTR_L1L2_LitR contains the LitR gene (TetR homolog) flanked by two Gateway® recombination *att* sites (*att*L1 and *att*L2). LitR, a transcriptional regulator from *Vibrio* bacteria, can repress gene transcription by binding its cognate operator sequence (TGACAAATTTATAAATTGTCA) and occluding polymerase activity. It is one of regulators in the ATCC® Synthetic Biology Yeast Tool Kit (Detailed information is described in the ATCC® Synthetic Biology Solutions User Guide). A synthetic promoter, pGPD-LitR (SB-1069®), is available for pairing with this regulator for the control of a gene expression in yeast *Saccharomyces cerevisiae*.

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.

Insert Information

Insert size (kb): 0.65
M13 forward: 5'- GTTTTCCCAGTCACGAC - 3'
M13 reverse: 5'- CAGGAAACAGCTATGAC - 3'

Vector Information

Construct size (kb): 3.4249
Type of vector: Entry vector
Markers: kanR

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: pENTR_L1L2_LitR (ATCC SB-1089)

References

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

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