



# pENTR\_L1L2\_PhIF

**SB-1032™**

## Description

pENTR\_L1L2\_PhIF contains a PhIF gene (TetR homolog) flanked by two Gateway® recombination *att* sites (*attL1* and *attL2*). PhIF, a transcriptional regulator from *Pseudomonas* bacteria, can repress gene transcription by binding its cognate operator sequence (ATGATACGAAACGTACCGTATCGTTAAGGT) and occluding polymerase activity. It is one of regulators in the ATCC® Synthetic Biology Yeast Tool Kit. The synthetic promoter pGPD- PhIF (ATCC® SB-1070™) can be paired with this regulator for the control of gene expression in *Saccharomyces cerevisiae* (Detailed information is described in the ATCC® [Synthetic Biology Solutions User Guide](#)). Gateway® is a registered trademark of Thermo Fisher Scientific.

**Volume:** 2 µg to 3 µg

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## Storage Conditions

**Storage conditions:** 2°C to 8°C

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## 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.

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## 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.

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## Insert Information

**Insert size (kb):** 0.65

**Insert information:**

**Suggested primers for sequencing:**

**M13 forward:** 5'- GTTTCCCAGTCACGAC - 3'

**M13 reverse:** 5'- CAGGAAACAGCTATGAC - 3'

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## Vector Information

**Construct size (kb):** 3.246

**Type of vector:** Entry vector

**Markers:** kanR

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## 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).

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pENTR\_L1L2\_PhIF (ATCC SB-1032)

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## References

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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## **Revision**

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