



pACYC177/ET3d/yNMT

87052™

Description

Organism: *Saccharomyces cerevisiae* Meyen ex E.C. Hansen

Clone type: Vector

Host: *Escherichia coli* BL21(DE3)

Storage Conditions

Product format: Freeze-dried

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

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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.

Insert Information

Insert size (kb): 1.3999999999999999

Type of DNA: genomic

Insert information:

Insert 5' end: NcoI

Insert 3' end: BglII

Cross references: DNA Seq. Acc.: M23726

Nucleotides 5-1392 of the insert correspond to nucleotides 190-1577 of M23726.

Chromosome: XII

XII R

Target gene: peptide N-myristoyl transferase

Gene name: peptide N-myristoyl transferase

Gene product: peptide N-myristoyl transferase(glycylpeptide N-tetradecanoyltransferase) [NMT1]

Gene symbol: NMT1

Contains complete coding sequence: Yes

Vector Information

Construct size (kb): 4.900000095367432

Vector name: pACYC177/ET3d

Type of vector: plasmid

Construction: pACYC177,pET3d

Host range: *Escherichia coli*

Vector end: NcoI; BamHI

Cloning sites: NcoI; NcoI+BamHI

Coding sequence: NMT1

Markers: kanR

Promoters: Expression: T7 (phi10)

Replicon: p15A

Ribosome-binding site: gene 10

Growth Conditions

Medium:

ATCC Medium 1236: LB Medium (ATCC medium 1065) with 25 mcg/ml kanamycin

Temperature: 37°C

Notes

Restriction digests of the clone give the following sizes (kb): NdeI--5.5; NcoI--5.5; StuI--3.9, 1.5. U25270, Expression cloning vector pACYC177/ET3d/yNMT, complete sequence.

- ATCC staff

Expression system compatible with ColE1 plasmids, for cotransformation and production of myristoylated proteins.

- J. Biol. Chem. 268: 7064-7068, 1993

Expression of this gene in the presence of 100 uM myristic acid allows myristoylation of recombinant proteins produced by a second ColE1 plasmid.

- J. Biol. Chem. 268: 7064-7068, 1993

Introduction of the NcoI site during amplification introduced a single base substitution T->G at nt 4.

- J. Biol. Chem. 268: 7064-7068, 1993

Material Citation

If use of this material results in a scientific publication, please cite the material in the

following manner: pACYC177/ET3d/yNMT (ATCC 87052)

References

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

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Revision

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

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Product Sheet

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