Product Sheet

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

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): 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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