



pManflag20 [CYT0024P, SCRF 387.0]

77379™

Description

The insert corresponds to the coding sequence for the catalytic domain of the protein (nt 547-1782 of the sequence record). It was constructed by amplification from yeast DNA using primers incorporating XbaI (5') and SalI (3') sites: upstream 5'-

ATATTTCTAGAAGAACTCAGCAATATATT - 3' downstream 5'-

GCGCGTCGACTTATTACTCACGGAATTTTTTCCA - 3'. This plasmid can be used for overexpression of alpha 1,2- mannosyltransferase. The order of the major features of this phagemid is: pMB ori ? f1 ori ? lacI ? tac promoter ? ompA ? flag ?

XbaI/insert/SalI ? rrnB terminator ? ampR.

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

Clone type: Clone

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Patent number:

6,485,930

Technical information: ATCC Product Experience does not have technical information on patent deposits that are not produced or characterized by ATCC. Additional information can be found in the corresponding patent available from the patent holder or with the U.S. and/or international patent office.

Shipping information: *Escherichia coli* containing the phagemid

Storage Conditions

Product format: Freeze-dried

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

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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

Target gene: alpha-1,2-mannosyltransferase

Gene product: alpha-1,2-mannosyltransferase [MNT1]

Insert end: 3' SalI; 5' XbaI

Vector Information

Construct size (kb): 6.800000190734863

Growth Conditions

Medium:

ATCC Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin

Temperature: 37°C

Handling Procedures

Grow cells to mid-log phase in M9 + 2% casamino acids containing 1 mM CaCl₂ and 100 mg/mL ampicillin at 37°C. Induce protein production using 0.005 mM IPTG for 12 hours at 30°C (for proper protein folding and secretion into the periplasm).

Notes

Restriction digests of the clone gave the following sizes (in kb): XbaI/SalI 5.4, 1.3; HindIII 6.3, 0.3, 0.2; EcoRI 6.3, 0.3, 0.2 ; Bgl II 6.8 ; BamHI 6.8.

ATCC Staff

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pManflag20 [CYT0024P, SCRF 387.0] (ATCC 77379)

References

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

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Product Sheet

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