PPFZ-R4 Plasmid in *Escherichia coli*

39543™

Description

Clone type: Clone

Host: *Escherichia coli* HB101 (ATCC 33694)

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Patent number:

4,935,370

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.

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Product format: Freeze-dried

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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

Type of DNA: cDNA
Genome: bovine
Target gene: prorennin A
Gene name: prorennin A
Gene product: prorennin A(prochymosin)
Contains complete coding sequence: Unknown

Vector Information

Vector name: unknown
Type of vector: plasmid
Host range: *Escherichia coli*
Markers: ampR

Growth Conditions

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Medium:
ATCC Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin
Temperature: 37°C

Notes

Constructed from two fragments of pCR101, a 235 bp BamHI/KpnI fragment (encoding
aa 6-83) and a 4772 bp HindIII/KpnI fragment (encoding aa 83 through TGA stop codon, pMB1, ampR) ligated with a 370 bp HindIII/BamHI fragment of ptrpLI-R4-B48. The 370 bp HindIII/BamHI fragment of ptrpLI-R4-B48 contains trp promoter-operator, ribosome binding site, artificial ATG initiation codon, and chemically derived sequence encoding the first 5 amino acids of the protein. pPFZ-R2 (ATCC 39544) and pPFZ-R4 (ATCC 39543) are the same except that the ATG initiation codon follows the ribosomal binding site of the trp leader peptide by 5 bp in pPFZ-R2 and by 11 bp in pPFZ-R4. pPFZ-R2 (ATCC 39544) shows significantly higher expression of the protein product than pPFZ-R4 (ATCC 39543). The insert contains BamHI sites. A KpnI/SalI digest should give a probe of about 970 bp which contains the sequences encoding aa 83 through the TGA stop codon.
- U.S. Pat. 4,935,370 dated June 19, 1990

.patent

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: PPFZ-R4 Plasmid in *Escherichia coli* (ATCC 39543)

References

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

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Revision

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