



pBR322Amy

31789™

Description

Organism: *Geobacillus stearothermophilus* (Donk) Nazina et al.

Clone type: Clone

Host: *Escherichia coli* RR1; K-12 RR1

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Patent number:

4,493,893

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Product format: Freeze-dried

Intended Use

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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

Insert size (kb): 5.299999999999998

Type of DNA: genomic

Insert strain: N21

Genome: *Bacillus stearothermophilus*

Target gene: amylase, alpha 1A, salivary

Gene name: alpha-amylase

Gene product: amylase, alpha 1A; salivary(Amylase, salivary, alpha-1A)

Contains complete coding sequence: Unknown

Insert end: HindIII

Vector Information

Construct size (kb): 9.899999618530273

Intact vector size: 4.363

Vector name: pBR322

Type of vector: plasmid

Construction: pBR313

Host range: *Escherichia coli*

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Vector end: HindIII**Vector information:**

Cross references: DNA Seq. Acc.: J01749

Cloning sites: EcoRI; ClaI; HindIII; EcoRV; BamHI; SphI; Sall; XmaIII; NruI; BspMI; BsmI; StyI; Aval; Ball; BspMII; PvuII; Tth111I; NdeI; AflIII; PpaI**Markers:** ampR; tetR**Replicon:** pMB1

Growth Conditions

Medium:

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

Temperature: 37°C

Notes

Restriction digests of the clone give the following sizes (kb): EcoRI--7.4, 1.2 (doublet); HindIII--5.3, 4.6; PstI--7.4, 2.5.

- ATCC staff

The plasmid encodes a thermostable alpha-amylase which is produced intracellularly and not exported.

- U.S. Pat. 4,493,893 dated Jan. 15, 1985

.patent

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Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pBR322Amy (ATCC 31789)

References

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

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