



pDG1

53005™

Description

Organism: *Aspergillus niger* var. *macrosporus* Koaze, anamorph

Clone type: Vector

Host: *Escherichia coli* HB101 (ATCC 33694)

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Patent number:

4,885,249

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.

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): 5

Type of DNA: genomic

Genome: *Aspergillus niger* var. *macrosporus*

Target gene: ornithine carbamoyltransferase

Gene name: ornithine carbamoyltransferase

Gene product: ornithine carbamoyltransferase [argB]

Gene symbol: argB

Contains complete coding sequence: Unknown

Insert end: EcoRI; BamHI

Vector Information

Construct size (kb): 12.19999980926514

Intact vector size: 6.430

Vector name: pHC79

Type of vector: cosmid

Construction: pBR322, Charon 4A; pHC79, pBB116

Host range: *Escherichia coli*

Vector end: BamHI; EcoRI

Vector information:

Cross references: DNA Seq. Acc.: L08873

Cloning sites: EcoRI; ClaI; BamHI; Sall; Ecal; PstI

Markers: argB; ampR; tetR

Replicon: pMB1

Terminator: none

Growth Conditions

Medium:

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

Temperature: 30°C

Notes

Restriction digests of the clone give the following sizes (kb):

BamHI/HindIII--9.4, 1.5, 1.3; EcoRI/BamHI--6.3, 5.9; PstI--10.2, 2.0. IMPORTANT:

To prevent amplification of a rearranged and/or deleted cosmid, we recommend streaking on LB + amp plates at 30C and picking small colonies for liquid culture.

- ATCC staff

This was constructed by inserting the 5.0 kb EcoRI/HindIII fragment from pBB116 containing argB into pHC79 cut with EcoRI + HindIII. This is an integrative, positive selection vector conferring arginine prototrophy on an auxotrophic host such as *Aspergillus niger* 350(-)52 (ATCC 20739) (argB-).

- U.S. Pat. 4,855,249 dated Dec. 5, 1989

The argB BamHI/EcoRI fragment contains the following sites (separated by approximate kb): BamHI- 0.8- Sall- 0.4- HindIII- 1.4- Sall- 0.1- HindIII- 0.7- Sall- 0.1- HindIII- 0.7- Sall- 0.7- Sall- 0.5- EcoRI.

- Gene 25: 109-117, 1983

.patent

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pDG1 (ATCC 53005)

References

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

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