



PC21A Plasmid in *Escherichia coli*

39663™

Description

Clone type: Clone

Host: *Escherichia coli* C600

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Patent number:

4,720,454

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

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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): 0.52000000000000002

Type of DNA: cDNA

Insert information:

congenital adrenal hyperplasia)

Cross references: DNA Seq. Acc.: I00524

Genome: bovine

Chromosome: 23

Gene name: cytochrome P450, subfamily XXI (steroid 21-hydroxylase, congenital adrenal hyperplasia)

Gene product: cytochrome P450, subfamily XXI (steroid 21-hydroxylase, congenital adrenal hyperplasia) [CYP21]

Gene symbol: CYP21

Contains complete coding sequence: Unknown

Vector Information

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Product Sheet

Construct size (kb): 4.880000114440918

Intact vector size: 4.363

Vector name: pBR322

Type of vector: plasmid

Construction: pBR313

Host range: *Escherichia coli*

Vector end: PstI

Vector information:

Cross references: DNA Seq. Acc.: J01749

Cloning sites: EcoRI; ClaI; HindIII; EcoRV; BamHI; SphI; SalI; XmaIII; NruI; BspMI; BsmI; Styl; Aval; Ball; BspMII; PvuII; Tth111I; NdeI; AflIII; PpaI; PstI; PvuI; Scal; SspI; AatII

Markers: ampR; tetR

Replicon: pMB1

Growth Conditions

Medium:

ATCC Medium 1273: LB medium (ATCC medium 1065) with 20 mcg/ml tetracycline

Temperature: 37°C

Notes

Restriction digests of the clone give the following sizes (kb): BamHI--4.9;

EcoRI--4.1, 0.8; HindIII--4.9; PstI--4.4, 0.5.

- ATCC staff

Contains internal EcoRI and PstI sites (one each). Detected congenital adrenal hyperplasia in prenatal screening. Encoded protein shows a high degree of homology to 2 peptides from porcine P-450(c21) and limited homology to P-450 induced in rat liver.

- U.S. Pat. 4,720,454 dated Jan. 19, 1988

.patent

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: PC21A Plasmid in *Escherichia coli* (ATCC 39663)

References

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

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Revision

This information on this document was last updated on 2025-05-05

Contact Information

ATCC

10801 University Boulevard

Manassas, VA 20110-2209

USA

US telephone: 800-638-6597

Worldwide telephone: +1-703-365-2700

Email: tech@atcc.org or contact your local distributor
