



# pCOH17.1

## 95488™

Product Sheet

### Description

**Organism:** *Homo sapiens*, human

**Clone type:** Clone

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### Storage Conditions

**Product format:** Freeze-dried

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### 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.

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### BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

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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](http://www.atcc.org).

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## Insert Information

**Insert size (kb):** 1.7270000000000001

**Type of DNA:** cDNA

**Insert source:** liver

**Insert tissue:** Liver

**Insert information:**

DESCRIPTION OF INSERT COMPONENT:

Genomic copy number: unique

Cross references: DNA Seq. Acc.: M33318

Nucleotides 1-1726 of the insert correspond to nucleotides 22-1748 of M33318.

**Genome:** Homo sapiens

**Chromosome:** 19

**Gene name:** cytochrome P450, subfamily IIA (phenobarbital-inducible)

**Gene product:** cytochrome P450, subfamily IIA (phenobarbital-inducible)(coumarin 7-hydroxylase) [CYP2A6]

**Gene symbol:** CYP2A6

**Contains complete coding sequence:** Yes

**Insert end:** EcoRI

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## Vector Information

**Construct size (kb):** 6.0999999904632568

**Intact vector size:** 2.686

**Vector name:** pUC19

**Type of vector:** plasmid

**Construction:** pUC71K

**Host range:** *Escherichia coli*

**Vector end:** EcoRI

**Vector information:**

Cross references: DNA Seq. Acc.: X02514

**Cloning sites:** EcoRI; SacI; KpnI; SmaI; BamHI; XbaI; HincII; AclI; Sall; PstI; SphI; HindIII

**Insert detection:** lacZ', <-

**Markers:** ampR

**MCS:** EcoRI...HindIII, ->

**Polylinker sites:** EcoRI; SacI; KpnI; SmaI; BamHI; XbaI; HincII; AclI; Sall; PstI; SphI; HindIII

**Promoters:** lac

**Replicon:** pMB1, <-

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## Growth Conditions

### Medium:

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

**Temperature:** 37°C

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## Notes

Restriction digests of the clone give the following sizes (kb): EcoRI--2.7, 1.7, 1.7; BamHI--3.3, 1.7, 0.95; HindIII--6.3; PstI--2.8, 1.7, 1.65; XbaI--6.3.

- ATCC staff

The construct contains two copies of the insert in a head-to-tail orientation.

The insert contains the following restriction sites (approximate kb from the 5' end): PstI--0.13; PvuII--0.13; ClaI--0.49; StuI--0.7, 1.33; BamHI--0.78;

SacI--1.34.

- personal communication

The open reading frame of this insert is 4 aa shorter than that described in the sequence record M33318, but the first Met encoded here appears to support initiation and the protein product is functional.

- Eur. J. Pharmacol. 248: 95-102, 1993

## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pCOH17.1 (ATCC 95488)

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## References

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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## Revision

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## 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](mailto:tech@atcc.org) or contact your local distributor

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