



# pTOPO-ACS

99655™

## Description

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

**Clone type:** Clone

**Host:** *Escherichia coli*

**Deposited As:** human

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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):** 2.1000000000000001

**Type of DNA:** cDNA

**Insert strain:** human HeLa

**Genome:** Homo sapiens

**Target gene:** acetyl-CoA synthetase

**Gene name:** acetyl-CoA synthetase

**Gene product:** acetyl-CoA synthetase

**Contains complete coding sequence:** Yes

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### Vector Information

**Construct size (kb):** 6.0

**Intact vector size:** 3.908

**Vector name:** pCR2.1-TOPO

**Type of vector:** plasmid

**Cloning sites:** HindIII; KpnI; SacI; BamHI; SpeI; BstXI; EcoRI; EcoRI; EcoRV; BstXI; NotI; XhoI; NsiI; XbaI; ApaI

**Insert detection:** lacZalpha, -, 1-571

**Markers:** kanR; ampR

**MCS:** bases, -, 234-357

**Polylinker sites:** HindIII; KpnI; SacI; BamHI; SpeI; BstXI; EcoRI; EcoRI; EcoRV; BstXI; NotI; XhoI; NsiI; XbaI; ApaI

**Primer site:** M13 reverse priming site, -, 205-221; M13 forward (-20) priming site, -, 391-406; M13 forward (-40) priming site, -, 411-426

**Promoters:** T7

**Replicon:** f1 origin, →, 548-962; ColE1 origin, →, 3113-3786

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### Growth Conditions

**Temperature:** 37°C

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## Notes

Restriction digests of the clone give the following sizes (kb): BamHI--6.0;  
BamHI/NotI--3.9, 2.1; EcoRI--3.8, 2.0.0.2; HindIII--4.1, 1.5,0.3.  
- ATCC staff

The pTOPO-ACS contains a 2.1 kb insert that encodes the full length cDNA for human acetyl CoA synthetase (ACS) (amino acids 1-701). The plasmid was constructed in the following manner. Polymerase chain reaction was used to amplify the full length human ACS with twelve 5 prime untranslated region (UTR) nucleotides and 29 nucleotides of the 3 prime UTR. The PCR product was ligated directly into pCR 2.1-TOPO (Invitrogen).  
- personal communication

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pTOPO-ACS (ATCC 99655)

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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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