pTOPO-ACS

99655™

Description

Organism: *Homo sapiens*, human
Clone type: Clone
Host: *Escherichia coli*
Deposited As: human

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

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.

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): 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

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

Growth Conditions

Temperature: 37°C

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

Material Citation

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

References

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

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