pCMV-His-ACS

99656™

Description

Organism: *Homo sapiens*, human
Clone type: Clone
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): 2.2000000000000002
Type of DNA: cDNA
Insert source: human
Insert tissue: human
Genome: Homo sapiens
Target gene: acetyl-CoA synthetase
Gene name: acetyl-CoA synthetase
Gene product: acetyl-CoA synthetase [CMV-His-ACS]
Gene symbol: CMV-His-ACS
Contains complete coding sequence: Yes
Insert end: EcoRI; BamHI

Vector Information

Construct size (kb): 7.599999904632568
Intact vector size: 5.400
Vector name: pcDNA3.1(-)
Type of vector: phagemid
Host range: *Escherichia coli*
Vector end: BamHI; EcoRI
Cloning sites: NheI; ApaI; XbaI; XhoI; NotI; EcoRV; EcoRI; BamHI; Asp718I; KpnI; HindIII; AflII
Markers: neoR; G418R; ampR
MCS: NheI...HindIII, ->, 895-110
Polylinker sites: NheI; PmeI; ApaI; XbaI; XhoI; NotI; BstXI; EcoRV; EcoRI; BstXI; BamHI; Asp718I; KpnI; HindIII; AflII; PmeI
Primer site: pcDNA3.1 reverse primer, <-, 1022-1039
Promoters: CMV; T7; SV40
Replicon: f1, →, 1298-1711; SV40, →, 1776-2055; pMB1, 3618-4291
Terminator: bGH polyadenylation, ->, 1021-1235; SV40 polyadenylation, ->, 2986-3358

Growth Conditions

Medium:
ATCC Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin
Temperature: 37°C

Notes

Restriction digests of the clone give the following sizes (kb):
BamHI/NotI--5.4,2.2; BamHI--7.6; HindIII--6.85,0.45,0.3; XhoI--7.6.
- ATCC staff

Encodes a 731-amino acid fusion protein that contains the full length human ACS. Consists of an initiator methionine, six consecutive histidines, an anti-Xpress antibody epitope (DLYDDDDK), and aa 2-701 of human ACS.
- J. Biol. Chem. 275: 26458-26466, 2000

Expression is driven by the CMV promoter/enhancer in the vector.
- J. Biol. Chem. 275: 26458-26466, 2000

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pCMV-His-ACS (ATCC 99656)

References

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

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