



pSLH16 [transgene 2]

79013™

Description

Organism: *Homo sapiens*, human

Clone type: Clone

Shipping information: Rehydrate with TE

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): 14.4

Type of DNA: genomic

Insert information:

DESCRIPTION OF INSERT COMPONENT:

Genomic copy number: unique
(hypercholesterolemia)

Cross references:

Genome: Homo sapiens

Chromosome: 19

19 p13.2

Target gene: low density lipoprotein receptor (familial hypercholesterolemia)

Gene name: low density lipoprotein receptor (familial

Gene product: low density lipoprotein receptor (familial hypercholesterolemia)(low density lipoprotein receptor) [LDLR]

Gene symbol: LDLR

Alleles: A2, E1, E2, A1, A2, B1, B2, D1, D2, K1, K2, Q1, Q2, S2, A1, S1

Contains complete coding sequence: Unknown

Insert end: NotI

Vector Information

Construct size (kb): 17.29998970031738

Intact vector size: 2.900

Vector name: pTZ18R

Type of vector: phagemid

Construction: pUC18, Escherichia coli lacZalpha, pBR322, f1

Host range: *Escherichia coli*

Vector end: NotI

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

Enhancer: none

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79013

Insert detection: lacZ'

Markers: ampR

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

Promoters: lac; T7

Replicon: pMB1; f1

Terminator: none

Notes

Restriction digests of the clone give the following sizes (kb): Sall--14.8, 2.5;

EcoRI--12.8, 4.5; BglII--14.0, 3.3; SstI--17.3; NotI--14.4; 2.9.

- ATCC staff

The insert includes the following restriction sites: Sall (intron 1, 2.0 kb from the 5' NotI site); BglII (intron 3); EcoRI (cDNA segment).

- personal communication

The NotI fragment consists of the following elements: the mouse metallothionein promoter I (1.7 kb); exon 1 of LDLR, containing a SstII site; intron 1 truncated by deletion of a RsaI (77 nt 3' to exon 1) / EcoRI (3.1 kb 5' to exon 2) fragment;

- J. Cell Biol. 111: 347-359, 1990

exons and introns 2-4; a cDNA fragment corresponding to exons 5-18; and transcription termination and polyadenylation signals from the human growth hormone receptor gene (0.6 kb).

- J. Cell Biol. 111: 347-359, 1990

Encodes the normal sequence.

- J. Cell Biol. 111: 347-359, 1990

The expected size of the correctly processed mRNA is 2.9 kb.

- J. Cell Biol. 111: 347-359, 1990

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pSLH16 [transgene 2] (ATCC 79013)

References

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

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Revision

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Product Sheet

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