

79012<sup>™</sup>

### Description

Organism: Homo sapiens, human

Clone type: Clone

Host: Escherichia coli HB101 (ATCC 33694)

### **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<sub>1</sub>

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: Notl

#### **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: Notl

Cloning sites: EcoRI; SacI; KpnI; SmaI; BamHI; XbaI; SalI; AccI; HincII; PstI; SphI; HindIII

Enhancer: none



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Insert detection: lacZ'

Markers: ampR

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

Promoters: lac; T7
Replicon: pMB1; f1
Terminator: none

### **Growth Conditions**

Medium:

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

Temperature: 30°C

### Notes

Restriction digests of the clone give the following sizes (kb): Sall--14.8, 2.5; EcoRI--12.8, 4.5; BgIII--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' Notl site); Bglll (intron 3); EcoRl (cDNA segment).

- personal communication

The Notl 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

More information may be available from ATCC (http://www.atcc.org or 703-365-2620).

### **Material Citation**

If use of this material results in a scientific publication, please cite the material in the following manner: pSLH16 [transgene 2] (ATCC 79012)

#### References

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

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### Revision

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