pSVLfur

79823™

Description

A gene for the paired basic amino acid cleaving enzyme (furin, membrane associated receptor protein) from human (1). The cDNA was modified with EcoRI linkers, cloned into pSVL, and transformed into *Escherichia coli*. DNA is prepared and provided as dried DNA.

Organism: *Homo sapiens*, human
Clone type: Clone
Shipping information: Rehydrate with TE

Storage Conditions

Product format: Freeze-dried
Storage conditions: 2°C to 8°C

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): 4.0999999999999996
Type of DNA: cDNA
Insert information:
DESCRIPTION OF INSERT COMPONENT:
Genomic copy number: unique
associated receptor protein)
Cross references: DNA Seq. Acc.: X17094
Genome: Homo sapiens
Chromosome: 15
15 q26.1
Target gene: paired basic amino acid cleaving enzyme (furin, membrane associated receptor protein)
Gene name: paired basic amino acid cleaving enzyme (furin, membrane
Gene product: paired basic amino acid cleaving enzyme (furin, membrane associated receptor protein)(paired basic amino acid cleaving enzyme, furin, paired basic amino acid cleaving enzyme) [FUR]
Gene symbol: PACE; FUR
Contains complete coding sequence: Yes
Insert end: Modification: EcoRI linkers

Vector Information

Construct size (kb): 9.0

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Intact vector size: 4.889
Vector name: pSVL
Type of vector: plasmid
Construction: pBR322, SV40
Host range: vertebrate cells
Vector end: EcoRI
Cloning sites: XhoI; XbaI; SmaI; XmaI; SacI; BamHI
Markers: ampR
Polylinker sites: XhoI; XbaI; SmaI; XmaI; SacI; BamHI
Promoters: SV40 late
Replicon: pMB1; SV40
Terminator: SV40 late poly(A)

Handling Procedures

Dissolve DNA in TE (10 mM Tris pH 7.5 and 1 mM EDTA) to desired concentration. DNA can be transformed into standard *E. coli* hosts for further . *E. coli* transformed with pSVLfur can be grown in LB with 50 mg/mL ampicillin. The insert contains the following restriction endonuclease sites (approximate kb from the 5 end). *Pst* I, 0.48, 2.42, 3.62; *Kpn* I, 0.58, 3.97; *Bam*H I, 1.84. Digestion of the plasmid with *Bam*H I results in bands at 6.4 kb and 2.4 kb. Digestion of the plasmid with *Eco*R I results in the bands at 4.1 kb, 2.7 kb, 2.2 kb. Digestion of the plasmid with *Kpn* I results in bands at 3.9 kb, 3.4 kb and 1.8 kb.

Notes

Restriction digests of the clone give the following sizes (kb): BamHI--6.6, 2.4; EcoRI--4.1, 2.7, 2.2; KpnI--3.9, 3.4, 1.8; PstI--3.1, 2.5, 2.0, 1.3; SmaI--5.8, 3.4.
- ATCC staff

The insert contains the following restriction sites (approximate kb from the 5' end): PstI--0.48, 2.42, 3.62; KpnI--0.58, 3.97; BamHI--1.84.
- GenBank/EMBL/DDBJ

Corresponds to nt 101-4180 of the sequence record. Constructed by introducing an EcoRI site in the SmaI site of the vector.
- personal communication

Contains the complete coding sequence (nt 217-2601).
- Mol. Biol. Rep. 14: 265-275, 1990

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pSVLfur (ATCC 79823)

References

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

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