



pCXLE-hOCT3/4

(Plasmid #27076)

Purpose

Non-integrating (episomal) expression of human OCT3/4

Depositing Lab

[Shinya Yamanaka](#)

Publication

[Okita et al Nat Methods. 2011 May;8\(5\):409-12](#)

([How to cite](#) ↓)

Sequence Information

[Sequences \(5\)](#)

Ordering

This material is available to academics and nonprofits only.

Item	Catalog #	Description	Quantity	Price (USD)	
Plasmid	27076	Standard format: Plasmid sent in bacteria as agar stab	1	\$85	Add to Cart

Backbone

Vector backbone: pCXLE

Backbone size w/o insert (bp): 10180

Vector type: Mammalian Expression

Growth in Bacteria

Bacterial Resistance(s): Ampicillin, 100 µg/mL

Growth Temperature: 37°C

Growth Strain(s): DH5alpha

Copy number: High Copy

Gene/Insert

Gene/Insert name: OCT3/4

Species: H. sapiens (human)

Insert Size (bp): 1108

Entrez Gene: [POU5F1](#) (a.k.a. (also known as) OCT3, OCT4, OTF-3, OTF3, OTF4, Oct-3, Oct-4, Oct3/4)

Cloning Information

Cloning method: Restriction Enzyme

5' cloning site: EcoRI (not destroyed)

3' cloning site: EcoRI (not destroyed)

5' sequencing primer: pCAG-F

3' sequencing primer: WPRE-R

([Common Sequencing Primers](#))

Resource Information

A portion of this plasmid was derived from a plasmid made by: pCEP4 is from Invitrogen. CAG Promoter was from Dr. Jun-ichi Miyazaki of Osaka University Graduate School of Medicine. In publication using this plasmid, please cite: Efficient selection for high-expression

transfectants with a novel eukaryotic vector. Gene 108:193-200, 1991.
Niwa, H., Yamamura, K. & Miyazaki, J.

Articles Citing this Plasmid:

- [43 References](#)

Terms and Licenses

Academic/Nonprofit Terms:

- [UBMTA](#)

Industry Terms:

- Not Available to Industry

Trademarks:

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How to cite this plasmid

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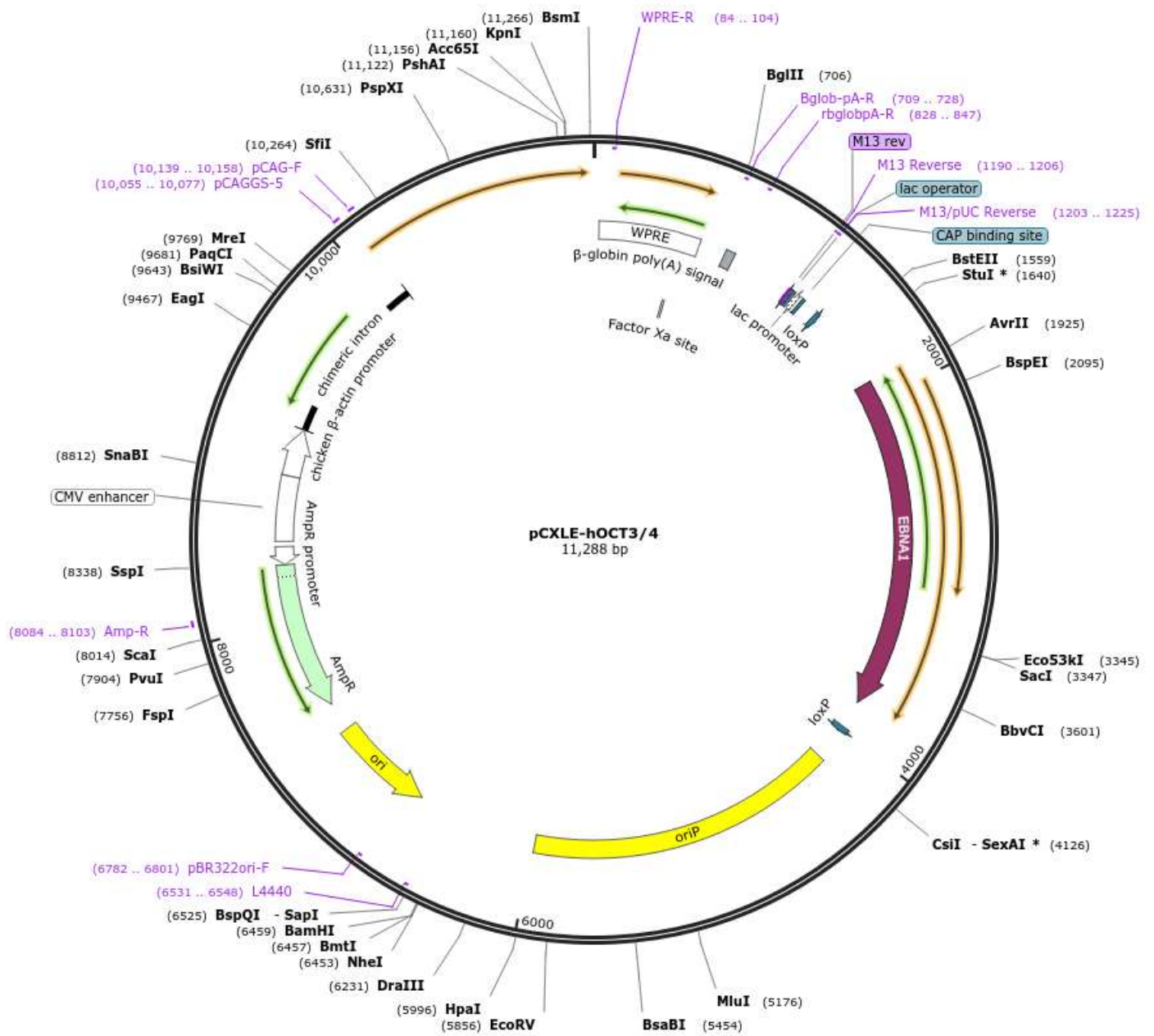
These plasmids were created by your colleagues. Please acknowledge the Principal Investigator, cite the article in which the plasmids were described, and include Addgene in the Materials and Methods of your future publications.

For your **Materials & Methods** section:

pCXLE-hOCT3/4 was a gift from Shinya Yamanaka (Addgene plasmid # 27076 ; <http://n2t.net/addgene:27076> ; RRID:Addgene_27076)

For your **References** section:

A more efficient method to generate integration-free human iPS cells. Okita K, Matsumura Y, Sato Y, Okada A, Morizane A, Okamoto S, Hong H, Nakagawa M, Tanabe K, Tezuka KI, Shibata T, Kunisada T, Takahashi M, Takahashi J, Saji H, Yamanaka S. *Nat Methods*. 2011 May;8(5):409-12 10.1038/nmeth.1591 [PubMed](#) [21460823](#)



Yamanaka Lab's Plasmid Stock # 51-71

Name: pCXLE-hOct^{3/4}

Size: 11.3k bp

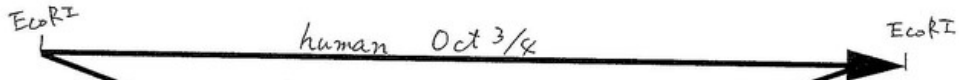
Constructed by: K. Okita

Date: May 2009

Insert Description: pTopo-hOct^{3/4} (#43-8)

Size: 1.1k bp

Enzyme used: EcoRI



Vector

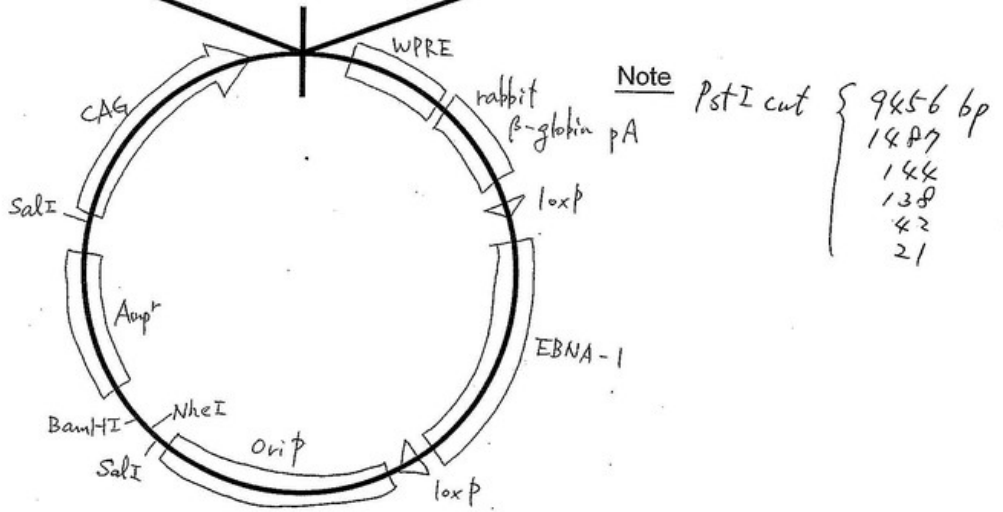
Description:

pCXLE-GFP
(#51-69)

Size: 10.2k bp

Enzyme used:

EcoRI





pCXLE-hSK

(Plasmid #27078)

Purpose

Integration-free (episomal) expression of human SOX2 and KLF4

Depositing Lab

[Shinya Yamanaka](#)

Publication

[Okita et al Nat Methods. 2011 May;8\(5\):409-12](#)

([How to cite](#) ↓)

Sequence Information

[Sequences \(8\)](#)

Ordering

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Item	Catalog #	Description	Quantity	Price (USD)	
Plasmid	27078	Standard format: Plasmid sent in bacteria as agar stab	1	\$85	Add to Cart

Backbone

Vector backbone: pCXLE

Backbone size w/o insert (bp): 10180

Vector type: Mammalian Expression

Growth in Bacteria

Bacterial Resistance(s): Ampicillin, 100 µg/mL

Growth Temperature: 37°C

Growth Strain(s): DH5alpha

Copy number: High Copy

Gene/Insert

Gene/Insert name: SOX2, KLF4

Species: H. sapiens (human)

Insert Size (bp): 2513

Entrez Gene: [KLF4](#) (a.k.a. (also known as) EZF, GKLF)

Entrez Gene: [SOX2](#) (a.k.a. (also known as) ANOP3, MCOPS3)

Cloning Information

Cloning method: Restriction Enzyme

5' cloning site: EcoRI (not destroyed)

3' cloning site: EcoRI (not destroyed)

5' sequencing primer: pCAG-F

3' sequencing primer: WPRE-R

([Common Sequencing Primers](#))

Resource Information

A portion of this plasmid was derived from a plasmid made by: pCEP4 is from Invitrogen. CAG Promoter was from Dr. Jun-ichi Miyazaki of Osaka University Graduate School of Medicine. In publication using this plasmid, please cite: Efficient selection for high-expression transfectants with a novel eukaryotic vector. Gene 108:193-200, 1991.

Niwa, H., Yamamura, K. & Miyazaki, J. Mutation(s) made by Provider
lab: Two genes are connected with the foot-and-mousht desease virus
2A self-cleaving sequence.

Articles Citing this Plasmid:

- [312 References](#)

Terms and Licenses

Academic/Nonprofit Terms:

- [UBMTA](#)

Industry Terms:

- Not Available to Industry

Trademarks:

- Zeocin® is an InvivoGen trademark.

How to cite this plasmid

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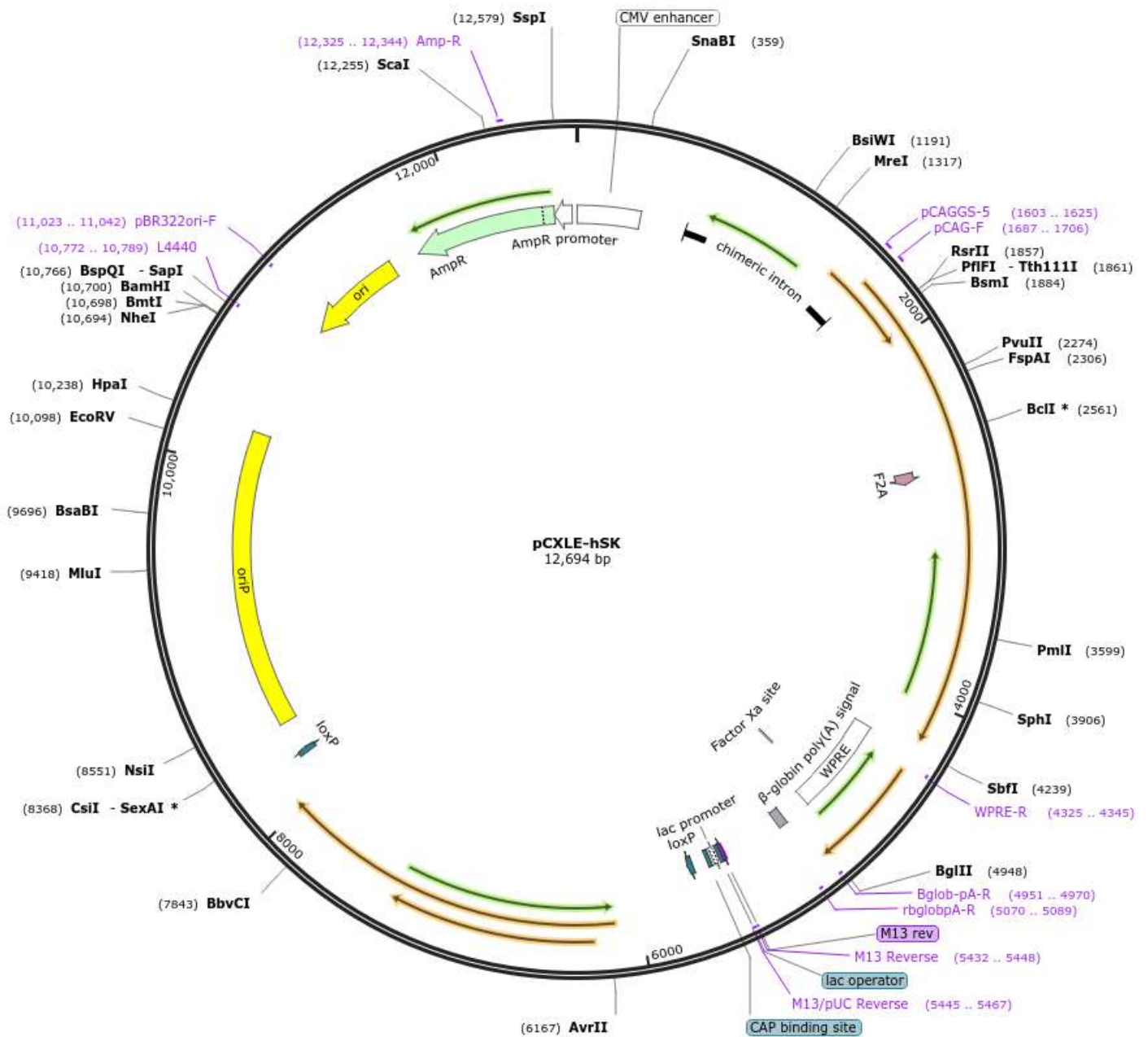
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pCXLE-hSK was a gift from Shinya Yamanaka (Addgene plasmid # 27078 ; <http://n2t.net/addgene:27078> ; RRID:Addgene_27078)

For your **References** section:

A more efficient method to generate integration-free human iPS cells. Okita K, Matsumura Y, Sato Y, Okada A, Morizane A, Okamoto S, Hong H, Nakagawa M, Tanabe K, Tezuka KI, Shibata T, Kunisada T, Takahashi M, Takahashi J, Saji H, Yamanaka S. *Nat Methods*. 2011 May;8(5):409-12 10.1038/nmeth.1591 [PubMed](#)
[21460823](#)



Yamanaka Lab's Plasmid Stock # 51-74

Name: pCXLE-hSK

Size: 12.7k bp

Constructed by: K. Okita

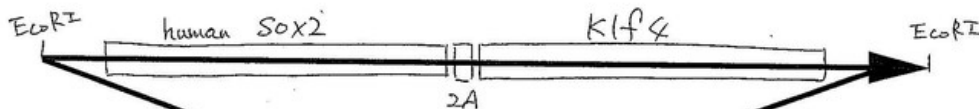
Date: May 2009

Insert

Description: pBS-hSox2-2A-Klf4 (#46-38)

Size: 2.5k bp

Enzyme used: EcoRI



Vector

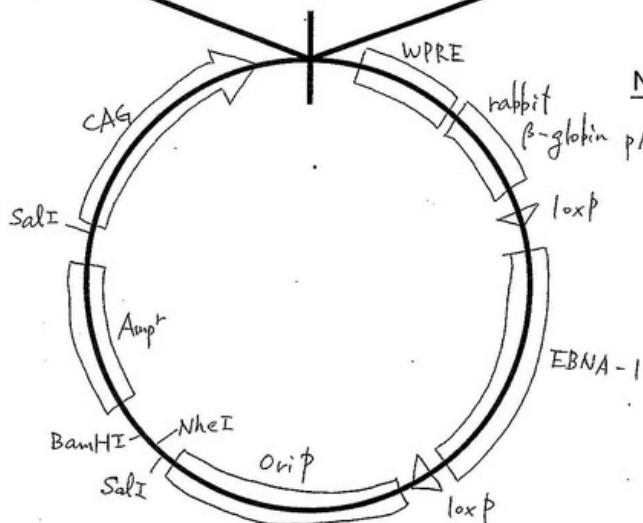
Description:

pCXLE-GFP.
(#51-69)

Size: 10.2k bp

Enzyme used:

EcoRI



Note

pstI cut { 9645 bp
1169
1013
866



pCXLE-hUL

(Plasmid #27080)

Purpose

Integration-free (episomal) expression of human L-MYC and LIN28

Depositing Lab

[Shinya Yamanaka](#)

Publication

[Okita et al Nat Methods. 2011 May;8\(5\):409-12](#)

([How to cite](#) ↓)

Sequence Information

[Sequences \(5\)](#)

Ordering

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Item	Catalog #	Description	Quantity	Price (USD)	
Plasmid	27080	Standard format: Plasmid sent in bacteria as agar stab	1	\$85	Add to Cart

Backbone

Vector backbone: pCXLE

Backbone size w/o insert (bp): 10180

Vector type: Mammalian Expression

Growth in Bacteria

Bacterial Resistance(s): Ampicillin, 100 µg/mL

Growth Temperature: 37°C

Growth Strain(s): DH5alpha

Copy number: High Copy

Gene/Insert

Gene/Insert name: L-MYC

Alt name: LIN28

Species: H. sapiens (human)

Insert Size (bp): 1871

Entrez Gene: [LIN28A](#) (a.k.a. (also known as) CSDD1, LIN-28, LIN28, ZCCHC1, lin-28A)

Entrez Gene: [MYCL](#) (a.k.a. (also known as) L-Myc, LMYC, MYCL1, bHLHe38)

Cloning Information

Cloning method: Restriction Enzyme

5' cloning site: EcoRI (not destroyed)

3' cloning site: EcoRI (not destroyed)

5' sequencing primer: pCAG-F

3' sequencing primer: WPRE-R

([Common Sequencing Primers](#))

Resource Information

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Articles Citing this Plasmid:

- [301 References](#)

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- [UBMTA](#)

Industry Terms:

- Not Available to Industry

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How to cite this plasmid

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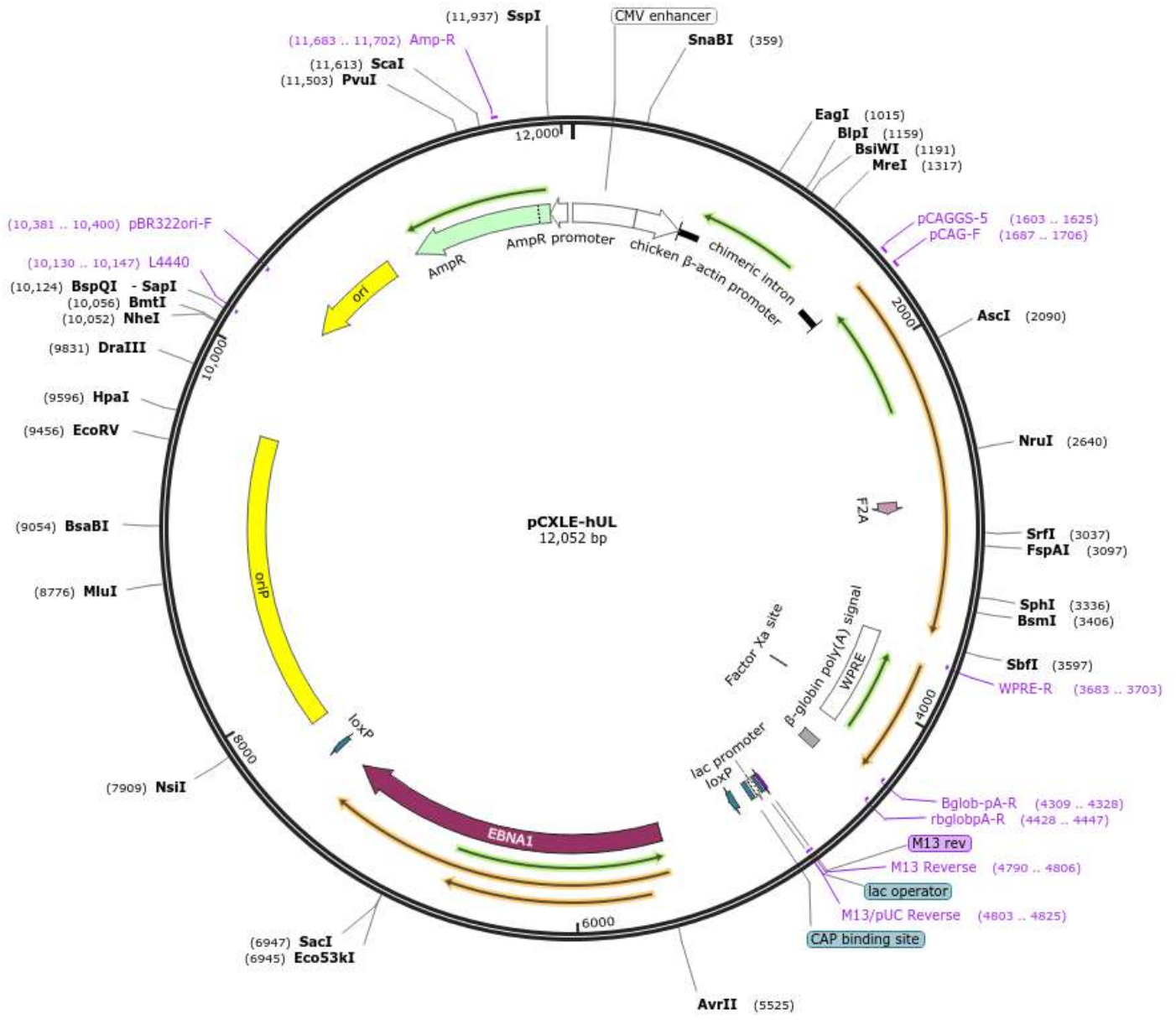
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For your **References** section:

A more efficient method to generate integration-free human iPS cells. Okita K, Matsumura Y, Sato Y, Okada A, Morizane A, Okamoto S, Hong H, Nakagawa M, Tanabe K, Tezuka KI, Shibata T, Kunisada T, Takahashi M, Takahashi J, Saji H, Yamanaka S. *Nat Methods*. 2011 May;8(5):409-12 10.1038/nmeth.1591 [PubMed 21460823](#)



Yamanaka Lab's Plasmid Stock # 52-28

Name: pCXLE-hUL

Size: 12.1 k bp

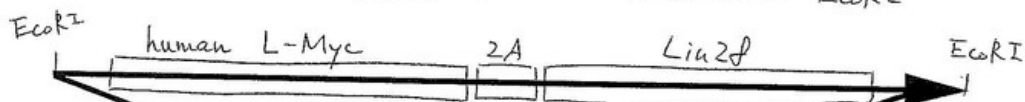
Constructed by: K. Okita

Date: 2009.5.19

Insert Description: pCX-hUL

Size: 1.9 k bp

Enzyme used: EcoRI



Vector

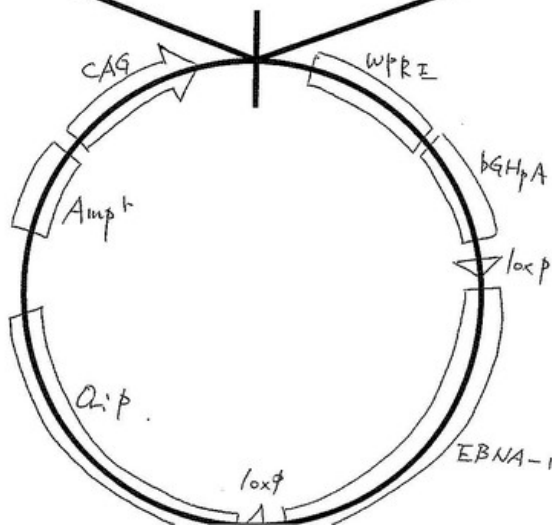
Description:

pCXLE-GFP.
(#51-69)

Size: 10.2 k bp

Enzyme used:

EcoRI



Note

PstI cut { 9757 bp
1169
1125