



pEB-C5

(Plasmid #28213)

Purpose

5 reprogramming factors (OCT4, SOX2, KLF4, c-MYC and LIN28) are expressed as a single poly-cistronic unit

Depositing Lab

[Linhao Cheng](#)

Publication

[Chou et al Cell Res. 2011 Mar;21\(3\):518-29. doi: 10.1038/cr.2011.12. Epub 2011 Jan 18.](#)

([How to cite](#) ↓)

Sequence Information

[Sequences \(6\)](#).

Ordering

This material is available to academics and nonprofits only.

Item	Catalog #	Description	Quantity	Price (USD)	
Plasmid	28213	Standard format: Plasmid sent in bacteria as agar stab	1	\$94	Add to Cart

Backbone

Vector backbone: pCEP4

Backbone manufacturer: invitrogen

Backbone size w/o insert (bp): 10200

Vector type: Mammalian Expression

Selectable markers: Hygromycin

Growth in Bacteria

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

Growth Temperature: 37°C

Growth Strain(s): Stbl3

Growth instructions: STBL3

Copy number: High Copy

Gene/Insert

Gene/Insert name: Oct4, Sox2, Klf4, c-Myc, Lin28

Species: M. musculus (mouse)

Insert Size (bp): 7612

Entrez Gene: [Myc](#) (a.k.a. (also known as) Myc2, Niard, Nird, bHLHe39)

Entrez Gene: [Sox2](#) (a.k.a. (also known as) Sox-2, lcc, ysb)

Entrez Gene: [Pou5f1](#) (a.k.a. (also known as) NF-A3, Oct-3, Oct-3/4, Oct-4, Oct3, Oct3/4, Oct4, Otf-3, Otf-4, Otf3, Otf3-rs7, Otf3g, Otf4)

Entrez Gene: [Klf4](#) (a.k.a. (also known as) EZF, Gklf, Zie)

Entrez Gene: [Lin28a](#) (a.k.a. (also known as) Gm10299, Lin-28, Lin28, Tex17, lin-28A)

Cloning Information

Cloning method: Restriction Enzyme

5' sequencing primer: N/A

[\(Common Sequencing Primers\)](#)

Resource Information

Articles Citing this Plasmid:

- [10 References](#)

Terms and Licenses

Academic/Nonprofit Terms:

- [UBMTA](#)

Industry Terms:

- Not Available to Industry

Trademarks:

- Zeocin® is an InvivoGen trademark.

Depositor Comments

Please note that Addgene's sequencing results using the CMV-F and pCEP-F primers found 2 sequence variants within and after the CMV enhancer. One is a C->G mismatch at position 775 within the CMV enhancer and the second is a deletion at position 949 just after the end of the CAG enhancer, as compared

to the full plasmid sequence provided by the depositing scientist. The significance of the two sequence variants is unclear; however, the plasmid functions as described in the associated publication. Addgene's other 4 sequencing results completely matched the depositor's sequence.

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:

pEB-C5 was a gift from Linzhao Cheng (Addgene plasmid # 28213 ; <http://n2t.net/addgene:28213> ;
RRID:Addgene_28213)

For your **References** section:

Efficient human iPS cell derivation by a non-integrating plasmid from blood cells with unique epigenetic and gene expression signatures. Chou BK, Mali P, Huang X, Ye Z, Dowey SN, Resar LM, Zou C, Zhang YA, Tong J, Cheng L. *Cell Res.* 2011 Mar;21(3):518-29. doi: 10.1038/cr.2011.12. Epub 2011 Jan 18. 10.1038/cr.2011.12 [PubMed 21243013](#)

