

Easy Verification

With an all-in-one kit*

Extract total RNA

Synthesize cDNA

Amplify & verify

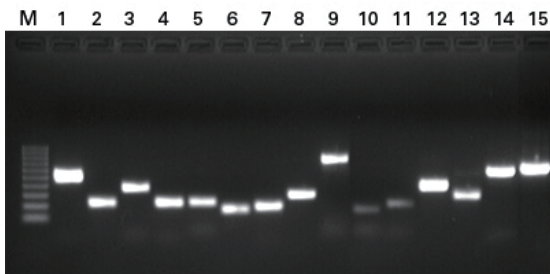
Pluripotency Check Kit

簡單確認 iPS 細胞的多功能性 'stemness'

- 確效有信心：使用文獻確效的 Primer set，一共可測得 9 個 Pluripotent 基因及兩個 House keeping genes
- Primer pair 可區分是否誘導出內生性的 pluripotency
- 選擇性高：Primer set 或是 All-in-one kit 可以選擇

Primers are designed to distinguish between endogenous and exogenous expression

Primer Set	Amplicon Size	Primer Set	Amplicon Size
Oct3/4(Total)	485 bp	Klf4 (Total)	739 bp
Oct3/4(Endogenous)	224 bp	Klf4 (Endogenous)	206 bp
Nanog(Total)	364 bp	Ecat1	164 bp
Nanog(Endogenous)	223 bp	Eras	210 bp
c-Myc(Total)	228 bp	Esg1	376 bp
c-Myc(Endogenous)	170 bp	Rex1	287 bp
Sox2 (Total)	193 bp	GAPDH (Control)	568 bp
Sox2 (Endogenous)	297 bp	β -Actin (Control)	603 bp



Confirming the pluripotent status of an mES culture. Total RNA was extracted from ES-E14TG2a mouse embryonic stem cells (mES), followed by cDNA synthesis and amplification according to the protocol outlined in PT5086-2. M: 100 bp DNA Marker. Lane 1, Total Oct3/4. Lane 2: Endogenous Oct3/4. Lane 3: Total Nanog. Lane 4: Endogenous Nanog. Lane 5: Total c-Myc. Lane 6: Endogenous c-Myc. Lane 7: Total Sox2. Lane 8: Endogenous Sox2. Lane 9: Total Klf4. Lane 10: Ecat1. Lane 11: ERas. Lane 12: Esg1. Lane 13: Rex1. Lane 14: GAPDH (control). Lane 15: β -Actin (control). Endogenous Klf4, data not shown.

New

iPS Efficiency Check qPCR Kit

如何辨別體細胞是否能有效轉型為 iPSC?

衰老標誌基因 (Senescence markers) 的表現會大幅抑制 iPSC reprogramming 的效率，藉由 iPS Efficiency Check qPCR Kit 能定量出衰老標誌的表現量，進而決定：

- 成體細胞的 Reprogrammability
- Reprogramming 前或期間，4 個主要衰老標誌的表現量
- 是否需要利用 RNAi 方式進行 Knockdown，以提高成體細胞轉型成為 iPSC 的效率。

Table I: iPS Efficiency Check qPCR Primers

Primer Set	Amplicon Size
<i>Arf</i>	67 bp
<i>Ink4a</i>	59 bp
<i>p21</i>	140 bp
<i>p53</i>	109 bp
<i>beta-Actin</i>	151 bp

訂購資訊 歡慶新品上市，全面 85 折優惠中！

Catalog	Product Name	Package	特價
631965	Pluripotency Check PCR Kit	Each	29,800
631966	Pluripotency Check PCR Primer Set	16 x 25 rxns	16,000
632009	iPS Efficiency Check qPCR Kit	Each	27,300
632010	iPS Efficiency Check qPCR Primer Set	50 rxn	16,000