

## iPS Efficiency Check qPCR Kit

**Catalog No.**  
632009

### Description

The iPS Efficiency Check qPCR Kit offers a simple way to check the expression levels of key senescence markers in target cells before and during somatic cell reprogramming. High levels of senescence markers in somatic cells—relative to those in embryonic stem (ES) or induced pluripotent stem (iPS) cells—have been shown to negatively affect cell reprogramming. Consequently, the levels of these markers can be used to determine a target cell's reprogrammability, and whether siRNA or knockdown construct(s) are required to enhance the efficiency of iPS cell generation. The kit includes 5 primer mixes—specific for genes encoding four senescence markers (Arf, Ink4a, p21, and p53) and one control gene—plus the reagents necessary for RNA extraction, first-strand cDNA synthesis, and quantitative real-time PCR.

### Package Contents

- NucleoSpin® RNA II (10 preps; Cat. No. 740955.10) >> [View Components](#)
- SMART™ MMLV Reverse Transcriptase (2,000 units, 20 rxns; Cat. No. 639522) >> [View Components](#)
- iPS Efficiency Check qPCR Primer Set (Cat. No. 632010) >> [View Components](#)
- SYBR® Advantage® qPCR Premix (200 rxns; Cat. No. 639676) >> [View Components](#)

### Product User Manuals

User manuals for Clontech products are available for download at [www.clontech.com/manuals](http://www.clontech.com/manuals)  
The following user manuals apply to this product:

- iPS Efficiency Check qPCR Protocol (PT5168-2)
- NucleoSpin® RNA II & RNA L Total RNA Isolation User Manual (PT4019-1)
- SMART™ MMLV Reverse Transcriptase Protocol-at-a-Glance (PT4045-2)
- SYBR® Advantage® qPCR Premix User Manual (PT3883-1)

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This document has been reviewed and approved by the Clontech Quality Assurance Department.

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