

Product Components List

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)
- 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](#)
- TB Green® Advantage® qPCR Premix (Cat. No. 639676; 200 rxns) [>>View Components](#)

For storage conditions, please see the Certificate of Analysis supplied with each component.

Product Documents

Documents for our products are available for download at takarabio.com/manuals

The following documents apply to this product:

- iPS Efficiency Check qPCR Protocol-At-A-Glance
- NucleoSpin RNA II & RNA L Total RNA Isolation User Manual
- SMART MMLV Reverse Transcriptase Protocol-At-A-Glance
- TB Green Advantage qPCR Premix User Manual

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

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