

iPS Efficiency Check qPCR Primer Set

Catalog No.
632010

Amount
50 rxns

Lot Number
Specified on product label.

Description

The iPS Efficiency Check qPCR Primer Set provides primers for quantitative real-time PCR expression analysis of four senescence markers (Arf, Ink4a, p21 and p53) and one housekeeping gene (beta-Actin). High expression of these markers in target cells is known to be a barrier to iPS cell generation. Consequently, the expression levels of these genes 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.

Package Contents

- 50 µl Murine Arf Primer Mix (10 µM each)
- 50 µl Murine Ink4a Primer Mix (10 µM each)
- 50 µl Murine p21 Primer Mix (10 µM each)
- 50 µl Murine p53 Primer Mix (10 µM each)
- 50 µl Murine beta-Actin Control Primer Mix (10 µM each)
- 3 tubes EASY Dilution Buffer (1X; 1 ml/tube)

Storage Conditions

- Store at -20°C.

Shelf Life

- 1 year from date of receipt under proper storage conditions

Shipping Conditions

- Dry ice (-70°C)

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

Quality Control Data

First-strand cDNA was synthesized from mouse embryonic fibroblast (MEF) total RNA using SMART® MMLV Reverse Transcriptase (Cat. No. 639522) and an oligo(dT) primer. The resulting first-strand cDNA was then subjected to real time PCR with TB Green® Advantage® qPCR Premix (Cat. No. 639676) and each primer pair in the iPS Efficiency Check qPCR Primer Set. The resulting standard curves yielded R² values ≥0.99, amplification efficiencies between 90–110%, and dissociation curves with single peaks. The no template controls (NTCs) gave either no signal or Ct values >35.

Amplicons of the following sizes were observed:

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Certificate of Analysis

Cat. No. 632010

iPS Efficiency Check qPCR Primer Set

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

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

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NOTICE TO PURCHASER:

Our products are to be used for **Research Use Only**. They may not be used for any other purpose, including, but not limited to, use in humans, therapeutic or diagnostic use, or commercial use of any kind. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without our prior written approval.

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