Quantitative reverse transcriptase-PCR analysis V.1

PeerJ

Kiichi Hirota[1], Yoshiyuki Matsuo[1]

[1]Kansai Medical University

Dec 11, 2019

1 Works for me

dx.doi.org/10.17504/protocols.io.v7ne9me

Yoshiyuki Matsuo

EXTERNAL LINK

https://doi.org/10.7717/peerj.8157

THIS PROTOCOL ACCOMPANIES THE FOLLOWING PUBLICATION

Kusunoki M, Hayashi M, Shoji T, Uba T, Tanaka H, Sumi C, Matsuo Y, Hirota K, Propofol inhibits stromatoxin-1-sensitive voltage-dependent K channels in pancreatic β-cells and enhances insulin secretion. PeerJ doi: 10.7717/peerj.8157

1 Total RNA was purified using RNeasy™ (Qiagen, Valencia, CA, USA).

2 For cDNA synthesis, 1 µg of total RNA was reverse transcribed using QuantiTect Reverse Transcription Kit (Qiagen).

3 Real-time PCR was performed using QuantiTect SYBR green PCR kit (Qiagen). PCR primers were purchased from Qiagen.

4 Amplification and detection were performed using Rotor-Gene Q real-time PCR cycler (Qiagen).

The change in expression of each target mRNA was calculated relative to the level of 18S rRNA.