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Quantitative reverse transcriptase-PCR analysis V.1 [↗](#)

PeerJ

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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](https://doi.org/10.7717/peerj.8157)

- 1 Total RNA was purified using RNeasy™ (Qiagen, Valencia, CA, USA).
- 2 For cDNA synthesis, 1 μ g 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 cyclers (Qiagen).

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



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