

Materials List for:

Detection of microRNA Expression in Peritoneal Membrane of Rats Using Quantitative Real-time PCR

Keiji Hirai¹, Hiromichi Yoshizawa², Toshimi Imai², Yusuke Igarashi², Ichiro Hirahara², Susumu Ookawara², Kenichi Ishibashi³, Yoshiyuki Morishita¹

¹Division of Nephrology, First Department of Integrated Medicine, Saitama Medical Center, Jichi Medical University

²Division of Nephrology, Department of Internal Medicine, Jichi Medical University

³Department of Medical Physiology, Meiji Pharmaceutical University

Correspondence to: Yoshiyuki Morishita at ymori@jichi.ac.jp

URL: <https://www.jove.com/video/55505>

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Materials

Name	Company	Catalog Number	Comments
QIA shredder	Qiagen	79654	biopolymer-shredding system in a micro centrifuge spin-column
miRNeasy Mini kit	Qiagen	217004	silica-membrane based spin column
QIAzol Lysis Reagent	Qiagen	79306	phenol/guanidine-based lysis reagent
Buffer RLT	Qiagen	79216	wash buffer 1
Buffer RWT	Qiagen	1067933	wash buffer 2
miScript II RT kit	Qiagen	218161	includes 10× Nucleics Mix containing deoxynucleotides, ribonucleotide triphosphates, and oligo-dT primers; miScript Reverse Transcriptase Mix containing poly(A) polymerase and reverse transcriptase and; miScript HiSpec buffer
miScript SYBR Green PCR kit	Qiagen	218073	includes QuantiTect SYBR Green PCR Master Mix and miScript Universal Primer
RNU6-2 primer	Qiagen	MS00033740	not disclosed
miRNA-142-3p primer	Qiagen	MS00031451	5'-UGUAGUGUUUCC UACUUUAUGGA-3'
miRNA-21-5p primer	Qiagen	MS00009079	5'-UAGCUUAUCAG ACUGAUGUUGA-3'
miRNA-221-3p primer	Qiagen	MS00003857	5'-AGCUACAUUGU CUGCUGGGUUUC-3'
miRNA-223-3p primer	Qiagen	MS00033320	5'-UGUCAGUUUG UCAAAUACCCC-3'
miRNA-34a-5p primer	Qiagen	MS00003318	5'-UGGCAGUGUCU UAGCUGGUUGU-3'
miRNA-327 primer	Qiagen	MS00000805	5'-CCUUGAGGGG CAUGAGGGU-3'
MicroAmp Optical 96 well reaction plate for qRT-PCR	Thermo Fisher Scientific	4316813	96-well reaction plate
MicroAmp Optical Adhesive Film	Thermo Fisher Scientific	4311971	adhesive film for 96-well reaction plate
QuantStudio 12K Flex Real-Time PCR system	Thermo Fisher Scientific	4472380	real-time PCR instrument
QuantStudio 12K Flex Software version 1.2.1.	Thermo Fisher Scientific	4472380	real-time PCR instrument software

methylglyoxal	Sigma-Aldrich	M0252	
Midperic	Terumo	not assign	peritoneal dialysis fluid
Sprague–Dawley rats	SLC	not assign	