MAY 15, 2019

OPEN ACCESS

DOI:
dx.doi.org/10.17504/protocols.io.2v6ge9e

External link:
<https://doi.org/10.1371/journal.pone.0226005>

Protocol Citation: Lisa-Maria Rosenthal, Giang Tong, Katharina Schmitt 2019. cDNA synthesis using the Applied Biosystems™ High-Capacity cDNA Reverse Transcription Kit. **protocols.io** <https://dx.doi.org/10.17504/protocols.io.2v6ge9e>

MANUSCRIPT CITATION: Rosenthal L, Leithner C, Tong G, Streitberger KJ, Krech J, Storm C, Schmitt KRL (2019) RBM3 and CIRP expressions in targeted temperature management treated cardiac arrest patients—A prospective single center study. PLoS ONE 14(12): e0226005. doi: [10.1371/journal.pone.0226005](https://doi.org/10.1371/journal.pone.0226005)

License: This is an open access protocol distributed under the terms of the [Creative Commons Attribution License](https://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

cDNA synthesis using the Applied Biosystems™ High-Capacity cDNA Reverse Transcription Kit

PLOS One

Lisa-Maria Rosenthal¹, Giang Tong¹, Katharina Schmitt¹

¹Deutsches Herzzentrum Berlin, Berlin, Germany

Lisa-Maria Rosenthal
 Deutsches Herzzentrum Berlin

ABSTRACT

cDNA synthesis using the Applied Biosystems™ High-Capacity cDNA Reverse Transcription Kit

MATERIALS

MATERIALS

Applied Biosystems™ High-Capacity cDNA Reverse Transcription Kit **Applied Biosystems Catalog #4368814**

Protocol status: Working
We use this protocol and it's working

Created: May 15, 2019

Last Modified: May 15, 2019

PROTOCOL integer ID:
23198

- 1 Allow the kit components to thaw on ice.
Prepare the 2X RT master mix on ice.

Component	Volume (μL)
10X RT Buffer	2.0
25X dNTP Mix (100 mM)	0.8
10X RT Random Primers	2.0
MultiScribe™ Reverse Transcriptase	1.0
RNase Inhibitor	1.0
Nuclease-free H ₂ O	3.2
Total per reaction	10.0

Place the 2X RT master mix on ice and mix gently.

- 2 Pipette 10 μL of 2X RT master mix into individual tube.
- 3 Pipette 10 μL of RNA sample (800 - 1000ng total RNA) into each tube, pipetting up and down two times to mix.
Seal the plates or tubes.

- 4 Briefly centrifuge the tubes to spin down the contents and to eliminate any air bubbles.
- 5 Place the tubes on ice until you are ready to load the thermal cycler.
- 6 Program the thermal cycler using the conditions below.

Settings	Step 1	Step 2	Step 3	Step 4
Temperature	25 °C	37 °C	85 °C	4 °C
Time	10 minutes	120 minutes	5 minutes	∞