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Reverse transcription using SuperScript IV V.2 👄

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EXTERNAL LINK

https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0205608

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https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0205608

MATERIALS

CATALOG # VENDOR NAME

18090050 SuperScript™ IV Reverse Transcriptase Thermo Fisher Scientific

Mix the following reagents from the kit. Please scale up if more RT reaction is desired.

Reagent	Amount (uL)
Primer (Random or dT)	0.5
dNTP (10mM)	1
RNA	11

Incubate the mixture at § 72 °C for © 00:02:00 . Then, incubate samples on ice for few minutes.



This step allows denaturation of RNA and proper priming for the downstream cDNA synthesis.

Mix the following reagents from the kit. Please scale up if more RT reaction is desired.

Reagent	Amount (uL)
RT Buffer (5x)	4
DTT(10mM)	1
RNase Inhibitor	1

Add the 6uL to the 12.5uL mix from Step 3.

Incubate the samples at § 37 °C for © 00:05:00. Then, add 1.5uL SuperScript RT IV enzyme to the reaction and mix well.

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5 Incubate the samples using the following incubation settings:

Temp (C)	Time (minutes)
25	5
45	40
55	10
75	10

- 5.1 Add 1uL RNase H to the cDNA samples and incubate at $\$ 37 °C for $\$ 00:20:00 .
- 5.2 Dilute the cDNA samples using Nuclease free water.

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