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© cDNA protocol - Thermo Scientific RevertAid RT

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1 Works for me

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ABSTRACT

cDNA protocol - Thermo Scientific RevertAid RT

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Prepare workspace

- 1 Thaw RNA and reagents on ice. Label four foil lids: one to replace RNA lid, one for reaction and two for aliquots
- 2 UV sterilize 3 RNase free PCR plates, 8 boxes 10uL filter tips, and DEPC treated H₂O
- 3 Once thawed, flash spin down RNA in plate centrifuge and spin down reagents in mini centrifuge

cDNA conversion

4 Add $\Box 1 \mu L$ RNA ($\Box .1 ng - \Box 5 \mu g$) to empty PCR plate

S Random Hexamer Primer Thermo
Add □1 μL Fisher Catalog #S0142

6 Add \blacksquare 10 μ L DEPC treated H₂O

If used amount other than $\ \Box 1 \ \mu L$ RNA (step 1), adjust H_2O volume to bring total reaction volume to $\ \Box 12 \ \mu L$

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Add 4 µL 5X reaction buffer 8 Add 11 µL Scientific Catalog #E00381 (20)U/uL) 9 ØdNTP Mix (10 mM each) Thermo Fisher Add 2 µL Scientific Catalog #R0191 10 Add 11 µL ⊠ RevertAid Reverse Transcriptase (200 U/µL) Thermo Fisher Catalog #EP0441 Total reaction volume should be **■20** µL Mix gently with pipette and centrifuge briefly on "short" 11 12 Place in thermocycler and run program "cDNA" Thermocycler cDNA program: Lid 105°C. 25°C 5 min, 42°C 60 min, 70°C for 5 min, ∞ hold 4°C.

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Aliquot product into microplates and seal with labeled foil lid

14 Store at & -20 °C for up to 1 week or & -80 °C for longer term storage