MiRNA Taqman RT

Mix	**7ul/Rxn**
Primer	**3ul/Rxn**
RNA (10ng/ul)	**4ul/Rxn**
Enzyme	**1ul/Rxn**

Master mix

100mM dNTPs (with dTTP)	**0.15**	**15**
10× Reverse Transcription Buffer	**1.50**	**150**
RNase Inhibitor, 20U/μL	**0.19**	**19**
Nuclease-free water	**5.16**	**516**
Total	**7.00**	**700**

Please make 100ul alloquots.

MI-RT program for RT reaction

MiRNA qPCR/any taqman qpcr

Mix	5ul/Rxn
Primer mix(20x)	0.5ul/Rxn (If you buy commercial primer, you can treat it as 50x)
H2O	0.5ul/Rxn
RT product	4ul/Rxn (this can be adjusted to allow enough datapoint readout)

One step sybr green (gene specific primers)

Mix	5ul/Rxn
Primer (10x)	1ul /Rxn
RT product	4ul/Rxn
One-stem sbyr green	

One-step RT-QPCR using SYBR green kit.

	5 reaction	1 reaction
Mix	25ul	5ul
Primer 1(10uM)	1ul	0.2ul
Primer 2(10uM)	1ul	0.2ul
Enzyme	1ul	0.2ul
Template (5ng/ul)	20ul	4ul
H2O	2ul	0.4ul

RT with 18s or other mRNA controls

100mM dNTPs (with dTTP)	**0.6**
10× Reverse Transcription Buffer	**1.5**

10x RT random primer		**1.5**
RNase Inhibitor, 20U/µL		**0.75**
Nuclease-free water	**5.9**	
Total		**10.25**

Mix 11ul/Rxn
RNA (10ng/ul) 4ul/Rxn
Multiscript 0.75ul/Rxn

25C 10'
37C 120'
85C 5"
4C for ever