

- 1. Gene expression analysis
- 2. Single cell RT-qPCR
- 3. Virus detection kits

Product features

- Contains enzymes purified by a variety of chromatography methods in several stages.
- Contains Reverse Transcriptase enzyme that is stable in rising temperature and activates in temperature range of 42 - 70°C.
- The DNA polymerase included in the mix, is inactive at room temperature and its activation requires preheating at 95 °C for 5 min.
- The enzyme with hot start capability increases reaction specificity and sensitivity
- HS-Taq DNA polymerase activation requires not more than 5min heating
- High sensitivity for detection of viral RNA or low RNA concentration
- Using a specific antibody for the Taq DNA polymerase enzyme to inactivate the enzyme at room temperature
- Can be used with all standard Real Time PCR apparatus
- High efficiency of product production
- · High speed and accuracy during testing
- High repeatability
- No contamination with bacterial DNA



Recommended RT-qPCR reaction mix

- 1. Defrost the reaction mixture and stir thoroughly.
- 2. Put thin-wall PCR tubes on ice and add the following components considering the final volume of a reaction mixture equal to 20µl:

Component	Volume	Final concentration
ONE Step RT-qPCR Master Mix, 2X	10µl	1X
Primer & Prob Mix	variable	-
RNA template	Variable	1pg – 1µg
Sterile water	up to 20µl	-

Recommended RT-qPCR cycles

Step	Temperatur e	Incubatio n time	Number of cycles
RT enzyme activity	55°C	10 min	1
Taq DNA Polymerase activation	95°C	5 min	1
Denaturation	95°C	10 sec	40-45
Annealing and extension	60°C	45 sec	40-45



Signs

Signs	Definitions	
-20.	Temperature range on product use	
RUO	For Research Use Only	
	Name and address of the manufacturer of the product	
REF	Product technical code	
	Product shipping conditions	
Σ	Number of usable tests	







Unit 9, Rouyesh building, Science and Technology Park, Tarbiat Modares University, Pajouhesh Blvd, Tehran, Iran

- +982191082111
- hi@sinaclon.com
- www.sinaclon.com



ONE Step RT-qPCR Master Mix, 2X

REF MM2191





Wet or Dry Ice





(Not more than 50 Freeze-Thawing cycles)

Components

•	
ONE Step RT-qPCR Master Mix, 2X	1ml

Description

ONE Step RT-qPCR Master Mix, 2X is developed for synthesize first-strand cDNA and simultaneously amplify the desired sequence in a single reaction. It includes all of components necessary to cDNA synthesis and Real-time PCR (the high efficiency Reverse Transcriptase and Hot Start Taq DNA polymerase, dNTPs, Mg²⁺, stabilizers, RNase inhibitor and RT-qPCR reaction components) except primers, probes and RNA template. This master mix enables fast and highly reproducible procedures on the most common real-time PCR apparatus, from either total RNA or mRNA, and it was specifically developed for probe-detection technology.

(OQM-049-00/00) (1)