



## OneStep RT-PCR kit

OneStep RT-PCR is convenient system for setting up one-tube RT-PCR reactions. It contains master enzyme mix including highly processive dART reverse transcriptase, high fidelity OptiTaq DNA polymerase and unique RNase Inhibitor working well at elevated temperature. Master Buffer contains optimized 2 x buffer including dNTPs, stabilizers and reaction enhancements.

Cat. No.	Size
E0803-01	25 reactions
E0803-02	100 reactions

Kit is designed to sufficient amplification DNA from any RNA with high specificity and sensitivity in a one-step process. Our system is dedicated for analytic as well as cloning purposes.

### Kit Components:

Reagents are provided for 25 or 100 RT-PCR reactions of 25 µl each.

**Storage Conditions:** Store at -20°C

### Quality Control:

All preparations are assayed for contaminating endonuclease and exonuclease and nonspecific RNase and single- and double-stranded DNase activities.

Component	25 rxn kit	100 rxn kit
2 x master buffer mix	350 µl	1.4 ml
Master Enzyme mix	25 µl	100 µl
Nuclease-free Water	1.0 ml	4 x 1.0 ml

### Protocol:

1. In 0.2 PCR tube, combine as follows:

Component:	Amount:
2 x master buffer mix	12.5 µl
sens primer 10 µM	1 µl
reverse primer 10 µM	1 µl
RNA (10 ng-2 µg)	x µl
Master Enzyme mix	1 µl
Nuclease-free Water	to 25 µl

2. Gently mix reaction by pipeting or if needed briefly centrifuge.

3. Transfer the sample to thermal cycler. Incubate as follows:

30 min at 50°C for followed by standard PCR with annealing temperatures suitable for the primers.

5 min	94°C pre-denaturation	30-40 cycles
30 s	94°C denaturation	
30 s	50-65°C annealing	
1 min/1kb	72°C extend	
5 min	72°C final extension	

4. Analyze 5-20 µl of RT-PCR sample by agarose gel electrophoresis with suitable molecular markers.