

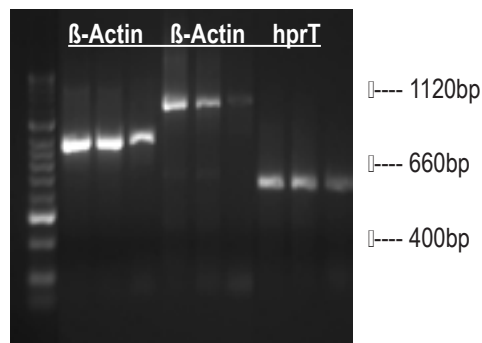


## One Step RT-PCR Kit

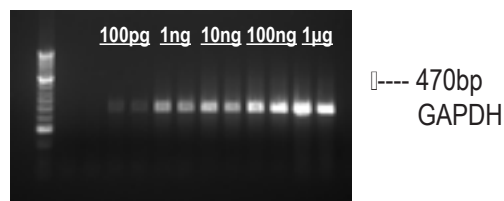
- Highly sensitive blend of Reverse Transcriptase and Hot Start Taq Polymerase
- 2x RT-PCR Mix optimized for as little as 100pg Total RNA
- Simple to use: One-step set-up

PHENIX One-Step RT-PCR Kit has been designed for highly sensitive one-step RT-PCR reactions using any RNA template. The kit employs an enzyme formulation which includes Hot Start Taq Polymerase (our widely used hot-start DNA polymerase) and an ultra-stable reverse transcriptase which is highly sensitive even when the amount of template is a limiting factor.

The kit provides highly specific reverse transcription and PCR in a single tube, using gene-specific primers on either total RNA or mRNA. The kit is provided with RNase inhibitor to protect template RNA from degradation. The proprietary buffer is highly optimized and balanced, leading to outstanding results. The kit is ideal for the synthesis of double-stranded cDNA products for subsequent cloning, sequencing, expression or transcription analysis.



**Synthesis of a range of amplicon sizes with the One-Step RT-PCR Kit.** PHENIX One-Step RT-PCR Kit was used to generate amplicons of differing sizes using serial dilutions of total RNA from mouse fibroblast strain 3T6 (1µg to 10ng) with a variety of gene-specific primers. Samples were analyzed on a 2% agarose gel. Marker is a HyperLadder II.



**Sensitivity of PHENIX One-Step RT-PCR Kit.** RT-PCR was carried out on HeLa cell total RNA, at the indicated concentrations, using gene-specific primers. Reverse transcription was performed at 45°C for 30 minutes and then followed by 40 cycles of PCR. Samples were analyzed on a 2% agarose gel. Marker is HyperLadder™ II.

### Ordering Information

Cat No	Description	Unit	Price
DNP-RT25	One Step RT-PCR Kit (cDNA synthesis and PCR in one-tube/step)	25 Rxns	\$110.00