

Thermo Scientific Verso™ RT-PCR Kits

The new Thermo Scientific Verso™ RT-PCR system combines a new reverse transcription enzyme, improved priming options and optimized buffers to generate high yield and full length cDNA. With a variety of kit options for both 1- and 2-step RT-PCR reactions, Verso™ provides optimum flexibility and sensitivity in an easy to use format.

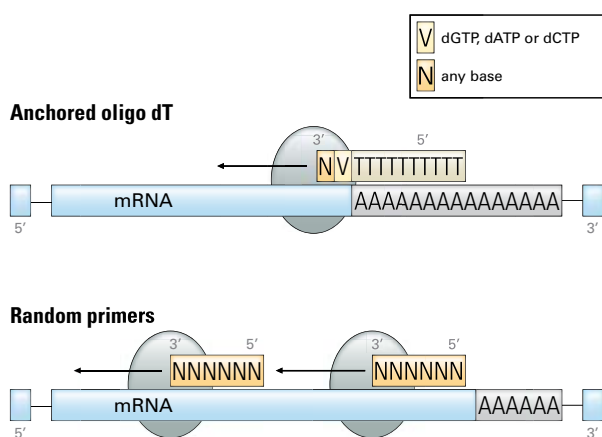


Fig. 1: Principle of cDNA synthesis using anchored oligo dT priming or random priming.



RNA Template Flexibility

Verso™ RT kits offer the flexibility of using anchored oligo dT or random hexamers in your reaction. The combination of anchored oligo dT and random hexamers give greater coverage and yield of cDNA from RNA (see figure above) resulting in a more efficient reaction.

Increased PCR Sensitivity

The proprietary Verso™ RT formulation generates a high yield of full length cDNA. Thermo-Start™ DNA polymerase kits are available to provide maximum specificity to your PCR reaction.

System Flexibility

Several kit options are available from cDNA synthesis to ReddyMix™ formulations that reduce post PCR handling steps.

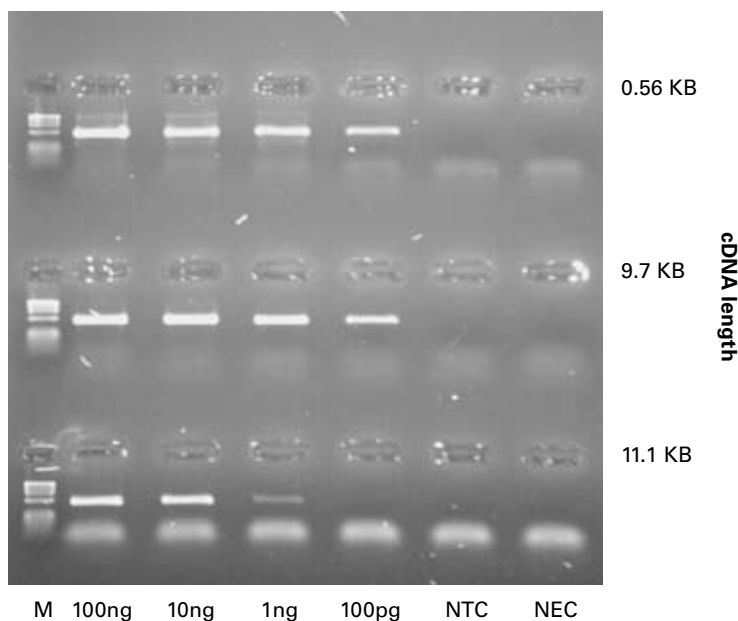
Time Savings

An RNase inhibitor is included with the Verso™ RT enzyme. This mix of enzymes significantly reduces the amount of RNase contamination while eliminating the extra steps of adding an inhibitor to the reaction. Other time savings are recognized when using the ReddyMix™ buffer system for loading of PCR products directly onto an agarose gel (Fig. 3).

High yield transcripts up to 11KB in length:

Fig. 2: Primer sets, approximately 300bp long, were designed to anneal at 0.56kb, 9.7kb and 11.1kb from the mRNA/poly A tail junction. Reverse transcription of the primers at the different lengths demonstrates the capability of Verso™ to transcribe through long fragments of DNA. Longer fragments can be transcribed with appropriate optimization.

M: Marker Lane
 NTC: No Template Control
 NEC: No Enzyme Control



Save time with ReddyMix™

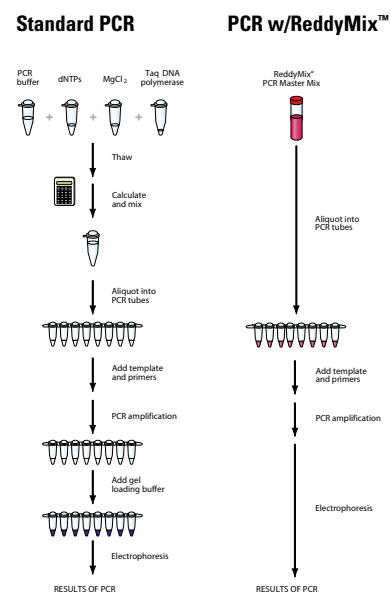


Fig. 3: The left column shows all of the steps that are needed to go from frozen reagents to analysis by agarose gel. The right column shows the reduced steps required when using ReddyMix™, resulting in time savings.

Ordering information:

Cat. No.	Description	Quantity
AB-1453/A	Verso™ cDNA Kit - For synthesis of high quality cDNA from RNA	40 x 20 µl rxns
AB-1453/B	Verso™ cDNA Kit - For synthesis of high quality cDNA from RNA	100 x 20µl rxns
<i>Includes Verso™ enzyme mix incl. RNase inhibitor, 5X cDNA Synthesis Buffer, Random Hexamers, Anchored Oligo dT</i>		
AB-1454/A	Verso™ 1-Step Kit - For quick & sensitive RT-PCR	40 x 50µl rxns
AB-1454/B	Verso™ 1-Step Kit - For quick & sensitive RT-PCR	200 x 50µl rxns
AB-1454/LD/A	Verso™ 1-Step ReddyMix™ Kit - For quick & sensitive RT-PCR with direct loading buffer	40 x 50µl rxns
AB-1454/LD/B	Verso™ 1-Step ReddyMix™ Kit - For quick & sensitive RT-PCR with direct loading buffer	200 x 50µl rxns
<i>Includes Verso™ enzyme mix incl. RNase inhibitor, 2X RT-PCR master mix containing ThermoPrime Plus DNA polymerase, MgCl₂, & dNTPs (and ReddyMix™ Buffer for direct gel loading)</i>		
AB-1455/A	Verso™ 1-Step Hot-Start Kit - For quick & sensitive RT-PCR with enhanced specificity	40 x 50µl rxns
AB-1455/B	Verso™ 1-Step Hot-Start Kit - For quick & sensitive RT-PCR with enhanced specificity	200 x 50µl rxns
<i>Includes Verso™ enzyme mix incl. RNase inhibitor, 2X RT-PCR master mix containing Thermo-Start™ DNA polymerase, MgCl₂, & dNTPs</i>		

* Samples are available on request. For more information visit www.thermo.com/qpcr

© 2007 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific Inc. Purchase of this product includes an immunity from suit under patents specified in the product insert to use only the amount purchased for the purchaser's own internal research. No other patent rights are conveyed expressly, by implication, or by estoppel. Further information on purchasing licenses may be obtained by contacting the Director of Licensing, Applied Biosystems, 850 Lincoln Centre Drive, Foster City, California 94404, USA. Practice of the patented 5' Nuclease Process requires a license from Applied Biosystems. The purchase of this product includes an immunity from suit under patents specified in the product insert to use only the amount purchased for the purchaser's own internal research when used with the separate purchase of Licensed Probe. No other patent rights are conveyed expressly, by implication, or by estoppel. Further information on purchasing licenses may be obtained from the Director of Licensing, Applied Biosystems, 850 Lincoln Centre Drive, Foster City, California 94404, USA.

BRO-VERSO RT-PCR-INT