

RT-PCR Product Selection Guide

Choose the right reverse transcriptase for your RT-PCR application. The overall performance depends on the choice between one-step or two-step RT-PCR, and the selection of reverse transcriptase.

Success in RT-PCR and cDNA synthesis requires the effective purification and protection of RNA template.

- **Achieve unsurpassed sensitivity**
Exceptionally small amounts of template are sufficient for one- or two-step RT-PCR.
- **Obtain full-length cDNA transcripts**
mRNA up to 12 kb can be reverse transcribed.
- **Overcome difficult templates**
High secondary structure RNA is not a problem.
- **Efficiently label cDNA**
The amplification product can be used in various applications.

Product Size	Two-Step RT-PCR		One-Step RT-PCR	
	Transcriptor Reverse Transcriptase	Transcriptor First Strand cDNA Synthesis Kit	Titan One Tube RT-PCR System / Kit	<i>C. therm</i> One Step RT-PCR System
12 kb	■	■	■	■
9 kb	■	■	■	■
6 kb	■	■	■	■
3 kb	■	■	■	■
Yield	■■■■	■■■■	■■■	■■
Sensitivity	■■■■	■■■■	■■■	■■
Difficult Templates	■■■■	■■■■	■■	■■■
Reaction Temperature	42 – 65°C	42 – 65°C	40 – 60°C	60 – 70°C
Full-Length cDNA	■■■■	■■■■	■■■	■■

PCR Enzyme dNTPacks

Choose Roche Applied Science's dNTPacks, convenient products that combine PCR-Grade Nucleotides, thermostable enzymes and enzyme blends, and all associated components such as buffers and PCR-enhancing additives. Our PCR Grade Nucleotides are assayed for function in RT-PCR, ensuring optimal performance of all components. Each dNTPack contains the additive-free sodium salt nucleotides as a ready-to-use mix (10 mM of each dNTP).

- **Profit from best performance**
Superior enzymes, combined with a mix of ultrapure PCR-Grade Nucleotides, ensure highest sensitivity and performance of amplification reactions.
- **Safeguard your precious reaction components**
The extensive investment in generating template material should not be risked by using nucleotides from another supplier.