

# Transcriptor High Fidelity cDNA Synthesis Kit

## Transcriptor高保真cDNA合成试剂盒

Accuracy meets  
RT-PCR

RT-PCR的准确性、碱基错配概率、灵敏度和产量……这些您曾经考虑过吗?



选择Transcriptor High Fidelity cDNA Synthesis Kit, 获得更高的准确性和灵敏度的2步法RT-PCR实验结果, 进行后继准确的基因表达和定量分析研究。

- **提升准确性**--保真度达到常用普通转录酶**7倍**(图1)。
- **高灵敏度转录**--起始转录模板RNA量最少为**10 pg**, 可同时对低丰度和高丰度的RNA进行转录, 而不影响基因表达的水平。
- **全长cDNA产量高**--使用锚定oligo(dT)<sub>18</sub>引物, 可获取最长**14 kb**的转录产物。
- **快速获得结果**--**10分钟内**就可完成全长cDNA的转录过程(图2)。
- **适用范围广泛**, 可转录各种RNA模板--**55°C**可同时有效转录普通及高GC含量的RNA。

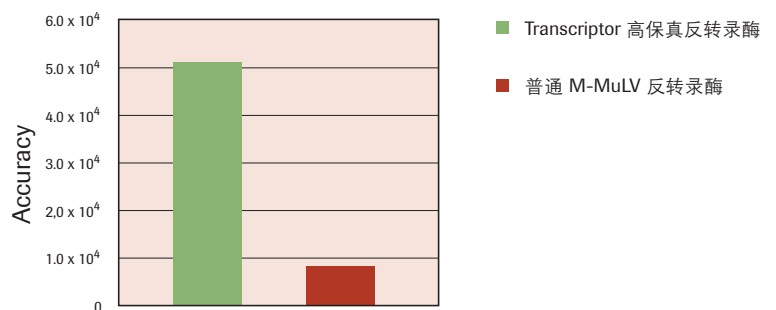


图1: 与普通的M-MuLV反转录酶相比, Transcriptor 高保真反转录酶具有更高的保真度。通过Genome Sequencer 20测序结果, 确定反转录过程中的错配率, Transcriptor 高保真反转录酶的错配率来自4次独立实验的平均值, 每次测定的序列至少为3.1x10<sup>6</sup>个碱基。纵坐标的accuracy 值取自错配率的倒数。

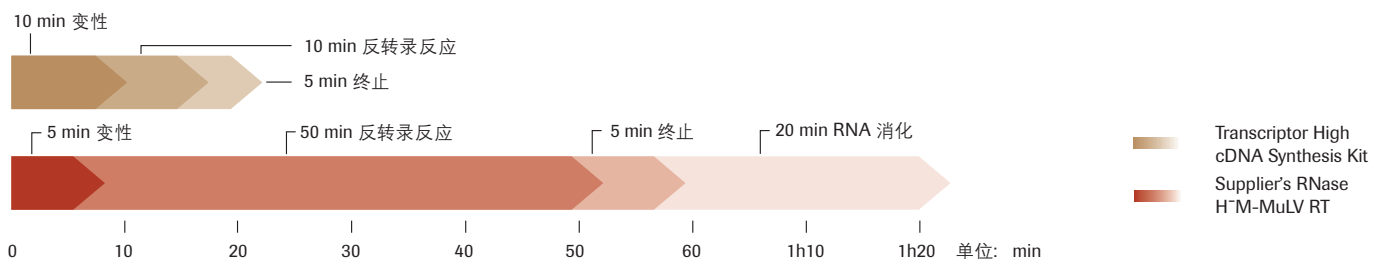


图2: 与其他供应商提供转录酶的反转录过程相比, Transcriptor High Fidelity cDNA Synthesis Kit操作更加简便快速, 可缩短近1个小时的操作时间。

## 罗氏应用科学部RT-PCR 产品选择指南

Two-Step RT-PCR					
Amplification Needs	Product Size	Priming	Annealing Temperature	Product	
Two-Step RT-PCR (Maximum Flexibility)	up to 14 kb	specific primers	42°C to 65°C	Transcriptor High Fidelity cDNA Synthesis Kit Transcriptor Reverse Transcriptase	
		oligo dT primers			
hexamer primers					
Amplification of mRNA Ends				5'/3' RACE Kit, 2 <sup>nd</sup> generation	

One-Step RT-PCR					
Amplification Needs	Product Size	Priming	Annealing Temperature	Carryover Prevention	Product
Convenience, Sensitivity	up to 1 kb	specific primers	50°C-70°C	yes	Tth DNA Polymerase
	up to 3 kb	specific primers	60°C-70°C	yes	<i>C.therm.</i> Polymerase One-Step RT-PCR System
	up to 6 kb	specific primers	45°C-60°C	no	Titan One Tube RT-PCR System Titan One Tube RT-PCR Kit

产品名称	货号	包装规格
Transcriptor High Fidelity cDNA Synthesis Kit	05 081 955 001	50 reactions, including 10 control reactions
	05 091 284 001	100 reactions
	05 081 963 001	200 reactions
Transcriptor First Strand cDNA Synthesis Kit	04 379 012 001	50 reactions, including 10 control reactions
	04 896 866 001	100 reactions
	04 897 030 001	200 reactions
Transcriptor Reverse Transcriptase	03 531 317 001	250 U (25 reactions)
	03 531 295 001	500 U (50 reactions)
	03 531 287 001	2,000 U (200 reactions)
5'/3' RACE Kit, 2 <sup>nd</sup> Generation	03 353 621 001	10 reactions
Titan One Tube RT-PCR System	11 888 382 001	25 reactions
	11 855 476 001	100 reactions
Titan One Tube RT-PCR Kit	11 939 823 001	50 reactions, including 10 control reactions
<i>C.therm.</i> Polymerase One-Step RT-PCR System	12 016 338 001	50 reactions
	12 016 346 001	250 reactions
Tth DNA Polymerase	11 480 014 001	100 U
	11 480 022 001	2x250 U
Protector RNase Inhibitor	03 335 399 001	2,000 U
	03 335 402 001	10,000 U