

NxtScript Enzyme and Master Mix

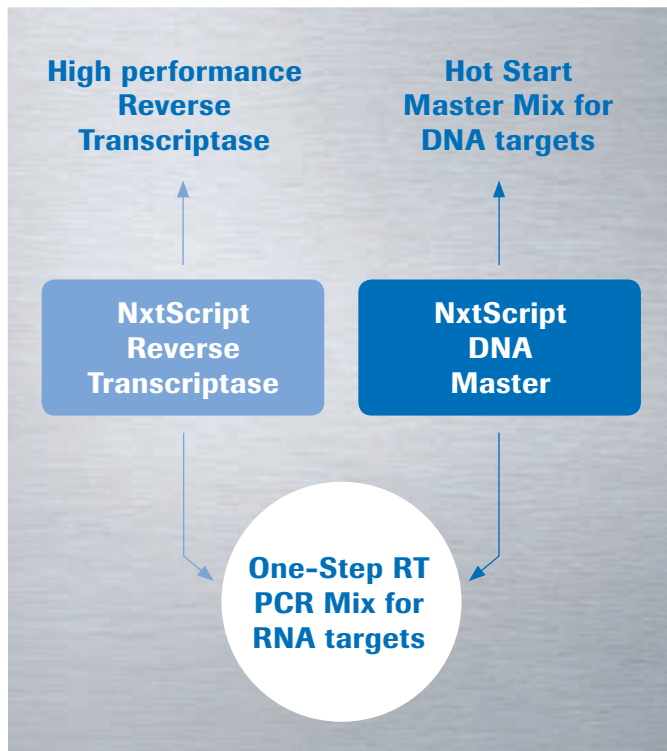
Next generation high performance RT-PCR

NxtScript RT for high temperature transcription

NxtScript RT is a designed M-MLV reverse transcriptase with high thermostability. The enzyme can be used to generate first-strand cDNA from mRNA or total RNA for use in downstream applications, such as two-step RT-PCR, RT-PCR for detection of viral and mRNA targets (e.g., cancer biomarkers), and generation of full-length cDNA libraries. Point mutations increase the thermostability of the enzyme and support higher cDNA yield of full-length transcripts than wild type M-MLV reverse transcriptase.

NxtScript DNA Master for stable multiplex performance

The NxtScript DNA Master is a sensitive and robust 5x conc. master mix. You can use it to run qPCR reactions and detect DNA, or use it in combination with NxtScript Reverse Transcriptase to detect RNA targets, such as viral pathogens. This mix is optimized for multiplex reactions and shows high room temperature stability.



▪ Easily detect difficult DNA targets

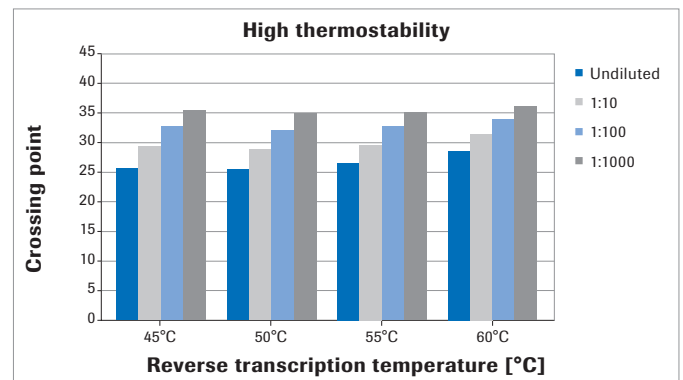
The high thermostability of NxtScript allows reactions up to 60°C to overcome RNA secondary structures (e.g., in GC-rich templates).

▪ Save time and stay specific

Take advantage of the aptamer hot start technology and run a fast PCR protocol.

▪ Benefit from high quality standards and multiple formats

Roche quality management is inserted in every production step for full documentation and traceability. Customized manufacturing and filling upon request.



Reverse transcription at different temperatures and subsequent qPCR show the high thermostability of NxtScript. Reference: data on file at Roche.

Ordering information

Product	Pack size	Catalog number
NxtScript Reverse Transcriptase, conc.	custom fill	07 051 166 103

Specification	
Appearance	clear, colorless solution
Activity	≥250 U/μl
Storage buffer	Tris/HCl, 25 mmol/l; Glycerin, 50% (v/v); NaCl, 100 mmol/l; DTT, 20 mmol/l; EDTA, 0.1 mmol/l; Triton X-100 0.01% (v/v); pH 7.5
Purity (HPLC)	≥90%
Nonspecific endonucleases (MWM III DNA)	not detectable with up to 75 U after 16 hours incubation at 37°C
Ribonucleases (MS2 RNA)	not detectable with up to 150 U after 1 hour incubation at 37°C
Stability	12 months at -15 to -25°C

Product	Pack size	Catalog number
NxtScript DNA Master	5 ml	07 368 143 103

Specification	
Appearance	clear, colorless solution
Function tested in qPCR (human reference cDNA G6PDH/β2M fragments)	corresponds
Stability	15 months at -15 to -25°C

Related products	Pack size	Catalog number
Hot Start Polymerases		
AptaTaq DNA Polymerase, 5 U/μl	custom fill	05 457 882 103
AptaTaq DNA Polymerase, glycerol-free, 50 U/μl	custom fill	05 187 605 103
FastStart Taq DNA Polymerase, GMP Grade, 5 U/μl	5 kU	04 659 163 103
FastStart Taq DNA Polymerase, 5 U/μl	custom fill	12 161 508 103
FastStart Taq DNA Polymerase, 100 U/μl	custom fill	04 433 785 103
EagleTaq DNA Polymerase, 5 U/μl	1 kU (0.2 ml) 25 kU (5 ml)	05 206 944 190 05 206 952 190
Hot Start Polymerases with RT activity		
HawkZ05 Fast DNA Polymerase, 40 U/μl	custom fill	07 731 264 103
HawkZ05 Fast DNA Polymerase, 200 U/μl, glycerol-free	custom fill	07 731 329 103

Regulatory disclaimer

For further processing only.

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