

FastGene[®] Scriptase II

cDNA Synthesis 5x ReadyMix

Manual

LS64

Version 1.0

April 2018

For Research use only

Store at -20°C



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Product description

Reverse transcription

The ability to reverse the process of translation from DNA to RNA has been a crucial application of modern molecular biology. The enzyme, a RNA-dependent DNA-Polymerase is called reverse transcriptase. Reversing the messenger RNA delivers the complementary DNA, which can be detected or quantified using PCR and qPCR approaches.

The lack of the 3'→5' exonuclease activity made the MuLV increasingly the enzyme of choice. The MuLV has also been used as a template to engineer new enzymes with additional features.

The FastGene® Scriptase II 5x ReadyMix is an engineered enzyme with a reduced RNase H activity and comes ready-to-use with all necessary ingredients to perform a reverse transcription.

Composition (100 Reactions)

- FastGene® Scriptase II
- 5x FastGene® Scriptase II buffer
- dNTP Mixture
- RNase Inhibitor
- Random Hexamer
- Helper Protein

Quality Control

- Purity: >99% on SDS-PAGE
- Endonuclease-free
- Exonuclease-free
- RNase-free
- Inhibitor-free
- Satisfactory Yield of DNA products

Protocol

1. Mix the ReadyMix with the RNA Template using the following setup:

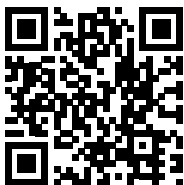
5x FastGene® Scriptase II ReadyMix (LS64)		4 μ l
High quality RNA-template*		x μ l
Sterile Water	up to	20 μ l

*Concentration of template RNA can be up to 2.5 μ g

2. Incubate at 25 °C for 10 minutes.

3. Incubate at 42 °C for 60 minutes*.

Note: The recommended incubation time can be reduced to 5 minutes depending on the product abundance and size. Please download our Technical Note showing the performance at lower temperature (down to 5 min.) at our website www.nippongenetics.eu/en/.



3. Inactivate the FastGene Scriptase II by incubating at 85°C for 5 min.

4. Store the cDNA at -20 °C or use it for downstream application.

Note: Up to 10 % of the qPCR reaction volume can be of the undiluted synthesized cDNA .

FastGene[®] Scriptase II

cDNA Synthesis 5x ReadyMix

Please contact us for additional information:

info@nippongenetics.eu

Please contact our technical support:

support@nippongenetics.eu

LS52	FastGene[®] Scriptase Basic (20.000 units at 200 U/μl)	100 Reactions
LS62	FastGene[®] Scriptase Basic cDNA Synthesis containing Oligo dTs, random hexamer and RNase inhibitor	100 Reactions
LS53	FastGene[®] Scriptase II (20.000 units at 200 U/μl)	100 Reactions
LS63	FastGene[®] Scriptase II cDNA Synthesis containing Oligo dTs, random hexamer and RNase inhibitor	100 Reactions
LS64	FastGene[®] Scriptase II cDNA Synthesis 5x ReadyMix containing random hexamer, RNase inhibitor and Helper Protein	100 Reactions

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