





Store at -20°C



⑦ www.nippongenetics.eu ⋈ info@nippongenetics.eu

EL +49 2421 55 4960 ₩ +49 2421 55 49611

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' \rightarrow 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 Basic is an enhanced version of the original MuLV RT.

Kit Content (100 Reactions)

- FastGene[®]Scriptase Basic (200 U/µl)
- 10x FastGene[®] Scriptase Basic buffer
- dNTP Mixture (2 mM each)
- Sterile water (RNase free)

Quality Control

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

Protocol

Concentration of template RNA

- Total RNA: 1 ng-5 μg •
- Messenger RNA (mRNA): 1 ng-0.25 μg •
- Specific RNA: 0.01 pg-0.5 µg .
- 1. Mix the recommended concentration of RNA template with 1 µl oligo dT primer (80 µM) and/or 1 µl random hexamer (100µM)
- 2 Incubate at 42 °C for 5 minutes.

Note: Add an additional annealing step of 10 minutes at 25°C if random

hexamers are used.

3. Store the RNA mixture on ice and add followed components:			
10x FastGene [®] Scriptase Basic buffer		2 µl	
FastGene® Scriptase Basic (200 units/µl)			
dNTP mixture (10 mM each)		2 µl	
RNA-Template			
Primer		1-2 µl	
RNase Inhibitor		0,5 µl	
Distilled Water	up to	20 µl	

4. Incubate at 42°C for 60 min.

Note: FastGene[®] Scriptase Basic can perform optionally over the full range of 42°C-50°C after optimization.

5. Incubate 90 °C for 5 min for complete enzyme deactivation.

GFast Gene® Scriptase Basic

Enzyme

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/µI)	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/µI)	100 Reactions
LS63	FastGene® Scriptase II cDNA Synthesis containing Oligo dTs, random hexamer and RNase inhibitor	100 Reactions



♂ www.nippongenetics.eu
∞ info@nippongenetics.eu

IEL +49 2421 55 4960 **IEL** +49 2421 55 49611