

TransNGS[®] Library Amplification SuperMix

Please read the manual carefully before use.

Cat. No. KA101

Version No. Version 5.1

Storage: at -18°C or below for two years

Description

This product is designed for the amplification of next-generation sequencing (NGS) libraries. It enables high-efficiency amplification of libraries with varying input amounts, GC contents, and fragment sizes, while offering features high fidelity, low bias, and high sensitivity. It contains *TransStart[®]* FastPfu Fly DNA Polymerase, combined with optimal reaction buffer. During amplification, just add template, primers and water to make the concentration of SuperMix solution 1×.

Highlights

- High fidelity amplification.
- Low amplification bias.
- High sensitivity and high specificity.
- Hot start.

Applications

- Next-generation sequencing library amplification.

Kit Contents

Component	KA101-01	KA101-02
TransNGS [®] Library Amplification SuperMix (2×)	1 ml	5×1 ml
Nuclease-free Water	1 ml	5 ml

Reaction Components

Component	Volume	Final Concentration
Adapter-ligated DNA	Variable	Variable
Library Amplification Forward Primer (10 μM)	2.5 μl	0.5 μM
Library Amplification Reverse Primer (10 μM)	2.5 μl	0.5 μM
TransNGS [®] Library Amplification SuperMix (2×)	25 μl	1×
Nuclease-free Water	Variable	-
Total volume	50 μl	-

Recommended thermal cycling conditions

98°C	3 min	} 2-15 cycles**
98°C	30 sec	
x°C*	30 sec	
72°C	30 sec	
72°C	3 min	
≤ 10°C	Hold	

*Depending on the PCR primer.

**Refer to the manual of library construction kit for the number of cycles.



Notes

- All components should be thawed and mixed thoroughly before use.
- We suggest to purify DNA after adapter ligation. Higher yield will be obtained with high quality DNA template.
- *TransStart[®] FastPfu* Fly DNA polymerase cannot incorporate dUTP. dUTP-containing primers or templates in the reaction are not recommended.

For research use only, not for clinical diagnosis.

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Service telephone +86-10-57815020

Service email custserv@transgenbiotech.com

