*Trans*NGS® Library Amplification SuperMix

Please read the manual carefully before use.

Cat. No. KA101

Storage: at -20°C for two years

Description

This product contains *TransStart*® FastPfu Fly DNA Polymerase, dNTPs and a reaction buffer optimized for library amplification. The concentration is 2×, which has the characteristics of high sensitivity, low preference and high fidelity. This product is suitable for the amplification of next-generation sequencing libraries. Under the recommended amplification conditions, it can achieve high fidelity and low preference during the amplification of next-generation sequencing libraries, and can meet the amplification of libraries with different GC contents. During amplification, just add template, primers and water to make the concentration of SuperMix solution 1×, and the amplified product is blunt-ended.

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
*Trans*NGS® Library Amplification SuperMix	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
*Trans*NGS® Library Amplification SuperMix	25 μl	1×
Nuclease-free Water	Variable	-
Total volume	50 μl	-

Recommended thermal cycling conditions

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

*Depending on the PCR primer length and GC contents.

**Depending on the amount of the starting material and your library preparation method.

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.

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