# *Trans*NGS® Library Amplification SuperMix

Cat. No. KA101

Storage: at -20°C for two years

## Description

*Trans*NGS® Library Amplification SuperMix is optimized for high fidelity, robust amplification of next generation sequencing (NGS) libraries regardless of GC contents. The ready-to-use 2×Mix contains DNA polymerase, dNTPs and optimized buffer, and requires only the addition of primers and template.

## 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 | 0.5-4 µl | - |
| Library Amplification Forward Primer (10 µM) | 0.4 µl | 0.2 µM |
| Library Amplification Reverse Primer (10 µM) | 0.4 µl | 0.2 µM |
| *Trans*NGS® Library Amplification SuperMix | 10 µl | 1× |
| Nuclease-free Water | Variable | - |
| Total volume | 20 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.

• DNA polymerase cannot incorporate dUTP. dUTP-containing primers or templates in the reaction are not recommended.