

2×TransStart® FastPfu Fly PCR SuperMix

Please read the datasheet carefully prior to use.

Cat. No. AS231

Version No. Version 5.0

Storage at -18°C or below for two years

Description

This product contains $TransStart^{\$}$ FastPfu Fly DNA Polymerase, dNTPs and optimized reaction buffer at a concentration of 2×. It has the features of high amplification efficiency, fast amplification speed (≤ 5 kb fragments can achieve 12 kb/min extreme amplification, > 5 kb fragments can achieve 6 kb/min high-speed amplification), ultra-high fidelity and high specificity. The SuperMix is provided at 2× concentration and can be used at 1× concentration by adding template, primers and Nuclease-free Water for amplification. The amplified product of $2\times TransStart^{\$}$ FastPfu Fly PCR SuperMix (-dye) can be cloned directly into $pEASY^{\$}$ -Blunt series of vectors. The amplified product of $2\times TransStart^{\$}$ FastPfu Fly PCR SuperMix (+dye) can be analyzed by electrophoresis directly, and need to be purified to remove dye when applied in cloning.

- Reduce PCR operation time.
- •Avoid contamination caused by multi-step operation.
- TransStart® FastPfu Fly PCR SuperMix offers 108-fold fidelity as compared to EasyTaq® DNA Polymerase.
- •Amplification of genomic DNA fragment up to 15 kb.
- •Amplification of plasmid DNA fragment up to 20 kb.

Features

Fast, ultra-high fidelity, high specificity, good stability.

Applications

- Ultra high fidelity PCR
- Site-directed mutagenesis
- Blunt end cloning
- Complex templates
- GC/AT-rich templates
- · Long fragment amplification

Kit Contents

Component	AS231-01/11	AS231-02/12
2×TransStart® FastPfu Fly PCR SuperMix (-dye) / (+dye)	1 ml	5×1 ml
Nuclease-free Water	1 ml	5 ml

Recommended PCR system and conditions (taking 50 µl reaction system as an example)

Component	Volume	Final Concentration
Template	Variable	As required
Forward Primer(10 µM)	1 μl	0.2 μΜ
Reverse Primer(10 μM)	1 μl	0.2 μΜ
2×TransStart® FastPfu Fly PCR SuperMix	25 μl	1×
Nuclease-free Water	Variable	-
Total volume	50 μl	_





PCR

Number of Cycles	Temperature	Time	
1 cycle	98°C	1 min	
30-35 cycles	98°C	10 sec	
	Tm-5°C	5 sec	
	72°C	6 or 12 kb/min*	
1 cycle	72°C	1 min	

^{*} For fragments of 5 kb and below, select 12 kb/min; for fragments above 5 kb, select 6 kb/min.

Note

• Completely thaw the contents in the tube and mix well before use.

For research use only, not for clinical diagnosis.

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