

## 2×*TransStart*<sup>®</sup> *FastPfu* PCR SuperMix

Cat. No. AS221

Storage: at -20°C for two years

### Description

*TransStart*<sup>®</sup> *FastPfu* PCR SuperMix is a ready-to-use mixture of *TransStart*<sup>®</sup> *FastPfu* DNA polymerase, dNTPs, and optimized buffer. The SuperMix is provided at 2× concentration and can be used at 1× concentration by adding template, primers and H<sub>2</sub>O.

- *TransStart*<sup>®</sup> *FastPfu* PCR SuperMix offers 54-fold fidelity as compared to *EasyTaq*<sup>®</sup> DNA Polymerase.
- Extension rate is about 2-4 kb/min.
- PCR products can be directly cloned into *pEASY*<sup>®</sup>-Blunt vectors.
- Amplification of genomic DNA fragment up to 15 kb.
- Amplification of plasmid DNA fragment up to 20 kb.

### Applications

- High fidelity PCR
- High yield PCR
- Fast PCR
- Blunt end cloning
- Site-directed mutagenesis
- Complex templates

### Kit Contents

Component	AS221-01	AS221-02
2× <i>TransStart</i> <sup>®</sup> <i>FastPfu</i> PCR SuperMix (-dye)	1 ml	5×1 ml
Nuclease-free Water	1 ml	5 ml

### Reaction Components

Component	Volume	Final Concentration
Template	Variable	as required
Forward Primer (10 μM)	1 μl	0.2 μM
Reverse Primer (10 μM)	1 μl	0.2 μM
2× <i>TransStart</i> <sup>®</sup> <i>FastPfu</i> PCR SuperMix	25 μl	1×
Nuclease-free Water	Variable	-
Total volume	50 μl	-

### Thermal cycling conditions

94°C	2-5 min	} 30-35 cycles
94°C	30 sec	
50-60°C	30 sec	
72°C	2-4 kb/min	
72°C	5-10 min	

### Note

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

**FOR RESEARCH USE ONLY**

