

2×*TransStart*[®] *KD* Plus PCR SuperMix

Cat. No. AS301

Storage: at -20°C for two years

Description

TransStart[®] *KD* Plus PCR SuperMix is a ready-to-use mixture of *TransStart*[®] *KD* Plus 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 H₂O.

- *TransStart*[®] *KD* Plus PCR SuperMix offers 108-fold fidelity as compared to *EasyTaq*[®] DNA Polymerase.
- PCR products can be directly cloned into *pEASY*[®]-Blunt vectors.
- Amplification of genomic DNA fragment up to 15 kb.
- Amplification of plasmid DNA fragment up to 20 kb.

Applications

- Ultra high fidelity PCR
- High yield and fast PCR
- GC-rich templates PCR
- Blunt end cloning
- Site-directed mutagenesis
- Complex templates PCR

Kit Contents

Component	AS301-01	AS301-02
2× <i>TransStart</i> [®] <i>KD</i> Plus 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> [®] <i>KD</i> Plus PCR SuperMix (-dye)	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	
68°C	1 kb/min	
68°C	5-10 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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