

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