



# Certificate of Analysis

**PRODUCT:** *TransFast*<sup>®</sup> *Taq* DNA Polymerase

**CAT. NO.**  
AP101-11

**AMOUNT**  
2 bags

**LOT NUMBER**  
Q10818

**SHELF LIFE**  
at -20 °C for two years

**STORAGE CONDITIONS**  
Store at -20 °C

**SHIPPING CONDITIONS**  
Dry ice (-70 °C)

## DESCRIPTION

*TransFast*<sup>®</sup> *Taq* DNA Polymerase is an engineered version of *Taq* DNA Polymerase. The enzyme consists of a single polypeptide with a molecular weight of approximately 94 kDa.

*TransFast*<sup>®</sup> *Taq* DNA Polymerase has 5'-3' DNA polymerase activity and 5'-3' exonuclease activity. It lacks 3'-5' exonuclease activity.

- The extension rate is about 6 kb/min.
- Template-independent "A" can be generated at the 3' end of the PCR product. PCR products can be directly cloned into *pEASY*<sup>®</sup>-T vectors.
- Amplification of genomic DNA fragment up to 4 kb.

## PACKAGE CONTENTS

| Component   | AP101-01/11   | AP101-02/12   |
|---|---------------|---------------|
| <i>TransFast</i> <sup>®</sup> <i>Taq</i> DNA Polymerase | 500 U ×1      | 500 U ×6      |
| 10× <i>TransFast</i> <sup>®</sup> <i>Taq</i> Buffer     | 1.2 ml ×1     | 1.2 ml ×6     |
| 2.5 mM dNTPs  | - / 900 µl ×1 | - / 900 µl ×6 |
| 6×DNA Loading Buffer                                    | 1 ml ×1       | 1 ml ×2       |

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## QUALITY CONTROL DATA

| Assay         | Standard   | Result          |
|---------------|--|-----------------|
| PCR           | Enzyme was used to amplify target genes from human/plant genomic DNA, cDNA, plasmids. The enzyme produced high yields of each target.  | Meets standards |
| Sensitivity   | MycT58 plasmid was used as a template with a gradient dilution ( $10^6$ copies/ $\mu$ l, $10^5$ copies/ $\mu$ l, $10^4$ copies/ $\mu$ l, $10^3$ copies/ $\mu$ l). The enzyme showed high sensitivity in PCR. | Meets standards |
| Contamination | Free contamination from the host genome  | Meets standards |



# Notice to Purchaser

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All products are for research use only. Caution: Not intended for human or animal diagnostic or therapeutic uses. If you have any further questions about this Certificate of Analysis, please contact us at +86-10-57815027 or +86-400-898-0321.

TransGen Biotech products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without prior written approval of TransGen Biotech, Inc.

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A handwritten signature in black ink that reads "Heng Zheng".

Manager, Quality Control Department

11/11/2022