



TRANSSTART FASTPFU FLY

TransStart® FastPfu Fly DNA Polymerase is a **new hot start, high fidelity, and high processivity** DNA polymerase, which set a new standard for PCR amplification that no other enzyme can reach. *TransStart® FastPfu Fly* DNA polymerase exhibits an accuracy that is **108 times** than *Taq* DNA polymerase and allows the use of extension time as short as **10 sec/kb**. *TransStart® FastPfu Fly* DNA polymerase is supplied with an unique buffer system that allows robust amplification regardless of GC content. PCR product amplified by *TransStart® FastPfu Fly* DNA polymerase is blunt end and can be cloned into **blunt cloning** vector without purification, gel extraction and "extra A added reaction". All these features make *FastPfu Fly* DNA polymerase the best choice for cloning and other high fidelity applications.

▶ Extreme Fidelity

108 times higher than *Taq* DNA polymerase.

▶ Top Processivity

Extension time as short as 10-15 sec/kb.

▶ Robust Performance

Ideal choice for long or difficult amplification.

▶ High specificity

Double-blocking hot start technique, prevents the amplification of nonspecific products.

Limited free samples are available, welcome to place sample order first.

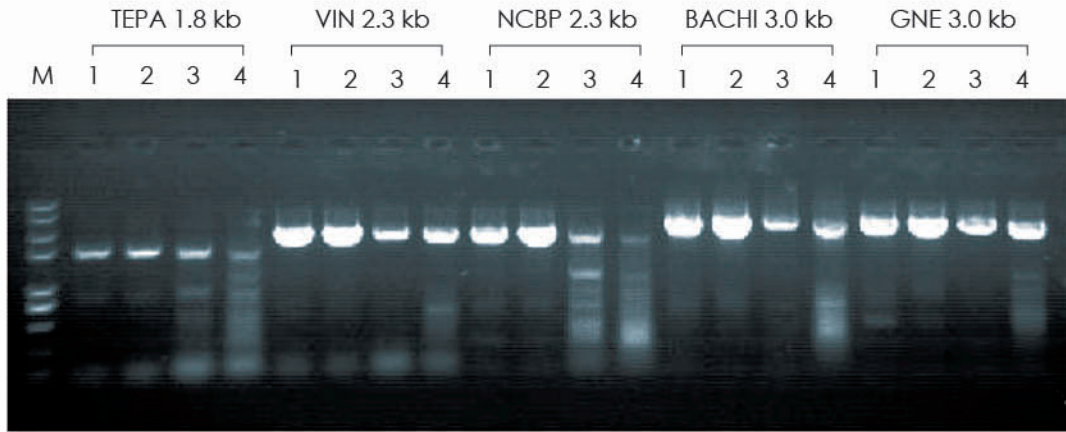
Publications with TransStart Fast Pfu

- ▶ Xiangming Wang, et al. (2015) Sarcomeres pattern proprioceptive sensory dendritic endings through UNC-52/Perlecan in *C. elegans*. **Developmental cell**, [IF=10.366].
- ▶ Fan Zhang, et al. (2014) Tetrapyrrole biosynthetic enzyme protoporphyrinogen IX oxidase 1 is required for plastid RNA editing. **PNAS**, [IF=10.727].
- ▶ Youqiang Xu, et al. (2014) Systematic metabolic engineering of *Escherichia coli* for high-yield production of fuel bio-chemical 2,3-butanediol. **Metabolic Engineering**, [IF=8.258].
- ▶ Yina Ma et al. (2013) 5-HTTLPR polymorphism modulates neural mechanisms of negative self-reflection. **Cerebral Cortex**, [IF=6.828].
- ▶ Xiao-San Huang et al. (2013) A basic helix-loop-helix transcription factor, ptrbHLH, of *Poncirus trifoliata* confers cold tolerance and modulates peroxidase-mediated scavenging of hydrogen peroxide. **Plant Physiology**, [IF=6.555].
- ▶ Ridao Chen et al. (2013) Regio- and stereospecific prenylation of flavonoids by *Sophora flavescens* prenyltransferase. **Advanced Synthesis & Catalysis**, [IF=5.535].
- ▶ Yina Ma et al. (2013) Does self-construal predict activity in the social brain network? A genetic moderation effect. **Social Cognitive and Affective Neuroscience**, [IF=5.042].
- ▶ ZeJie Wang et al. (2013) Analysis of oxygen reduction and microbial community of air-diffusion biocathode in microbial fuel cells. **Bioresource Technology**, [IF=4.75].
- ▶ Yanbing Wang et al. (2012) The *Arabidopsis* APC4 subunit of the anaphase-promoting complex/cyclosome (APC/C) is critical for both female gametogenesis and embryogenesis. **Plant Journal**, [IF=6.582].

- >> Cloning
- >> Mutagenesis

Applications:

- >> High fidelity PCR
- >> Difficult (GC-rich) templates
- >> Long distance PCR



Amplification comparison of high fidelity polymerase between TransGen and other company

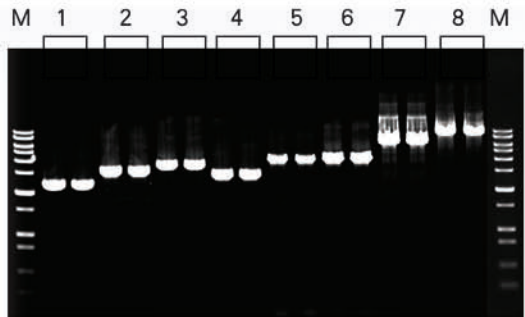
M: Trans2K[®] Plus II DNA Marker

Lane 1: TransStart[®] FastPfu Polymerase

Lane 3: A company Polymerase

Lane 2: TransStart[®] FastPfu Fly Polymerase

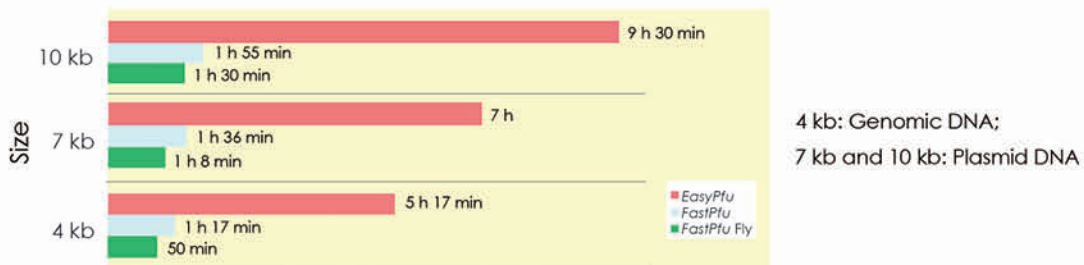
Lane 4: B company Polymerase




M: 1Kb Plus DNA Ladder

| | | |
|-------------|--------|------------|
| 1: NCBP | 2.5 kb | 2 h 20 min |
| 2: ACTR | 3 kb | 2 h 20 min |
| 3: HDP | 3.5 kb | 2 h 20 min |
| 4: β-globin | 3 kb | 1 h 27 min |
| 5: Rhod | 4.1 kb | 1 h 27 min |
| 6: β-globin | 4.1 kb | 1 h 27 min |
| 7: UDG | 7 kb | 1 h 36 min |
| 8: LN | 10 kb | 1 h 55 min |

TransStart[®] Fastpfu DNA Polymerase amplification performance



Amplification speed comparison of EasyPfu, TransStart[®] FastPfu, TransStart[®] FastPfu Fly DNA polymerases

| Product Name | Cat. No. | Specification | Concentration | Fidelity <small>(vs Taq DNA Polymerase)</small> |
|--|----------|---------------|------------------------|--|
| TransStart® FastPfu DNA Polymerase | AP221-01 | 250 units | 2.5 units/μl | 54 times |
| | AP221-02 | 500 units | 2.5 units/μl | |
| | AP221-03 | 6×500 units | 2.5 units/μl | |
| TransStart® FastPfu DNA Polymerase (with 2.5 mM dNTPs) | AP221-11 | 250 units | 2.5 units/μl | |
| | AP221-12 | 500 units | 2.5 units/μl | |
| | AP221-13 | 6×500 units | 2.5 units/μl | |
| TransStart® FastPfu Fly DNA Polymerase | AP231-01 | 250 units | 2.5 units/μl | 108 times |
| | AP231-02 | 500 units | 2.5 units/μl | |
| | AP231-03 | 6×500 units | 2.5 units/μl | |
| TransStart® FastPfu Fly DNA Polymerase (with 2.5 mM dNTPs) | AP231-11 | 250 units | 2.5 units/μl | |
| | AP231-12 | 500 units | 2.5 units/μl | |
| | AP231-13 | 6×500 units | 2.5 units/μl | |
|  2×TransStart® FastPfu PCR SuperMix (-dye) | AS221-01 | 1 ml | 40 rxns ×50 μl system | 54 times |
| | AS221-02 | 5×1 ml | 200 rxns ×50 μl system | |

TransStart FastPfu PCR SuperMix is a 2x ready-to-use mixture, designed to reduce operating time of PCR amplification and avoided pollution caused by multiple steps operation.

Tips

The products are stored at -20°C for two years.

Notes

Further details can be found in the customer contact below. For any questions, please contact with us by WeChat or call TransGen Customer Service at +86-10-57815027/57815087 or contact with our distributors.



About us

- ▶ We provide high quality products for life science.
- ▶ We provide simple and efficient methods.
- ▶ We provide new concept for scientific research.

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