appleton®

For the Life Scientist

HiFi-App Polymerase

Fast, Sensitive and High Fidelity PCR

HiFi-App Polymerase

Your Perfect Partner for Fast High Fidelity PCR

HiFi-App Polymerase is a superior performance proofreading enzyme which has been specifically engineered for high fidelity PCR amplification of DNA fragments up to 10 kb. It contains 5'-3' DNA polymerase and 3'-5' exonuclease activities (proofreading), and has a 50 fold higher fidelity than AppTaq polymerase (1 error in 4.5 x 10^7 nucleotides incorporated). It comes with a 5x HiFi reaction buffer which has pre-added enhancers, stabilisers, $MgCl_2$ and dNTPs to maximise PCR yields, and works in fast or standard thermal cycling conditions. The enzyme generates blunt ended PCR products which can then be used downstream for sub-cloning and site-directed mutagenesis experiments.

Main Features

- For fast, sensitive and high fidelity PCR
- Amplify PCR products up to 10kb
- Superior PCR yields using highly optimised buffer system with pre-added dNTPs and $MgCl_2$
- Robust performance under standard or fast cycling conditions (shorter PCR runs)
- Amplifies from complex GC- rich or AT-rich templates
- Generates blunt ended PCR products for downstream applications
- Suitable sample types: complex templates / crude samples / colonies

Ordering Information

Product	ARP041	ARP043
HiFi-App Polymerase (2U/µl) & 5x HiFi reaction buffer	200 units (1x 0.1ml) 3 x 1ml	1000 units (5x 0.1ml) 15 x 1ml

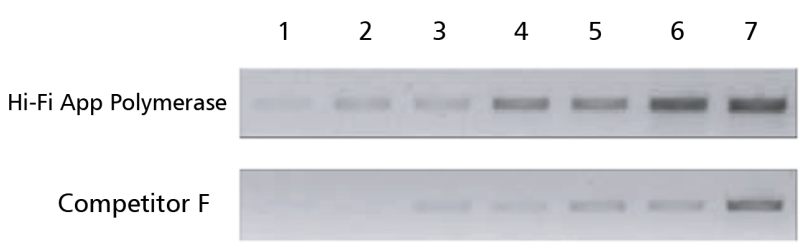

Figure 1: PCR amplification of a 5kb fragment of the PGK1 gene using HiFi-App Polymerase under fast cycling conditions (<1.5hrs).
Human genomic DNA was serially diluted 2 fold from 100ng to 1.5ng. Lanes: 1 – 1.5ng, 2 – 3.1ng, 3 – 6.25ng, 4 – 12.5ng, 5 – 25ng, 6 – 50ng, 7 – 100ng

appleton®
Appleton Woods Ltd, New Lindon House, Catesby Park, Kings Norton, Birmingham, B38 8SE
Tel: 0121 458 7740 Fax: 0121 458 5510 E-mail: sales@appletonwoods.co.uk