

## Product Datasheet

# Vazyme - Phanta SE Super-Fidelity DNA Polymerase (P521-d1)

### Description

Phanta SE Super-Fidelity DNA Polymerase is characterized by high fidelity (mismatch rate is 1/106 of Conventional Taq enzyme) and rapid amplification (5 sec/kb of extension time) through directed evolution of Phanta DNA Polymerase. With the application of the latest hot-start technology and the addition of specific factors, its amplification specificity and success rate are significantly improved. Amplification products are blunt-ended, which are compatible with ClonExpress Ultra One Step Cloning Kit V2 (Biorbyt #C116) and Ultra-Universal TOPO Cloning Kit (Biorbyt #C603).

### Storage

Store at -30 ~ -15°C and transport at ≤0°C.

### Note

For research use only

### Application notes

Flash amplification: Amplification of fragments within 10 kb can be completed in 1 hour  
High fidelity: ~106X higher than Taq DNA Polymerase  
Broad compatibility: Suitable for crude templates, high GC/AT templates (overall GC 24%-79%, local GC 22%-88%) and methylated templates  
Convenient operation: Only "standalone enzyme + buffer", makes sample addition easier

### Expiration Date

12 months from date of receipt.



### Biorbyt Ltd.

7 Signet Court, Swann's Road,  
Cambridge, CB5 8LA, United Kingdom

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)

Phone: [+44 \(0\) 1223 859-353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)

### Biorbyt LLC.

68 TW Alexander Drive,  
Durham, NC, 27713, United States

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)

Phone: [+1 \(415\) 906-5211](tel:+1(415)9065211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)