

Product Datasheet

Vazyme - 2 × Rapid Taq Plus Master Mix (Dye Plus) (P223-03)

Catalog Number	P223-03
Category	Tools
Description	<p>Rapid Taq Plus DNA Polymerase is a new generation Taq DNA polymerase with a high amplification success rate. This product combines high blocking rate dual-species antibodies (binding different antigenic epitopes) and an optimized buffer system, demonstrating excellent success rate and specificity at an extension rate of 1 - 10 sec/kb. The pre-prepared 2 × Master Mix only requires the addition of primers and templates for PCR amplification, reducing pipetting operations and increasing detection throughput and result reproducibility. This product has robust amplification performance and high storage stability. It supports PCR amplification of genomic, plasmid, and λDNA templates up to 15 kb, and cDNA templates up to 10 kb. The unique protectant added to the product ensures that 2 × Master Mix does not freeze when stored at -20°C, allowing for convenient use. Additionally, this product contains tracking dyes, enabling direct electrophoresis analysis after the reaction. The amplification products are applicable for ClonExpress Ultra One Step Cloning Kit V3 (Vazyme #C117) and Ultra-Universal TOPO Cloning Kit (Vazyme #C603).</p>
Application notes	<p>Rapid amplification: 1-10 sec/kb (2 kb, 1 sec/kb; 5 kb, 5 sec/kb; ≤15 kb, 10 sec/kb); Hot start: Dual-blocking antibody enables superior specificity and sensitivity; Broad compatibility: Works with 24%-79% GC systems and 7-plex amplification; Convenience: Store at -20°C without freezing, ready to use and include tracking dye.</p>
Usage Notes	Restricted to UK and Ireland's customers ONLY
Storage	Store at -30 ~ -15°C and ship at ≤0°C.
Note	For research use only
Expiration Date	12 months from date of receipt.

Biorbyt Ltd.

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

Email: info@biorbyt.com, support@biorbyt.com

Phone: [+44 \(0\)1223 859353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

Biorbyt LLC

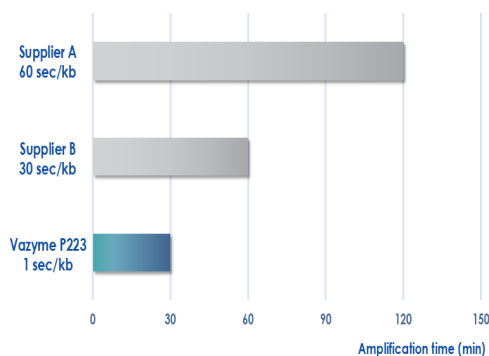
68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713-2847
United States

Email: info@biorbyt.com, support@biorbyt.com

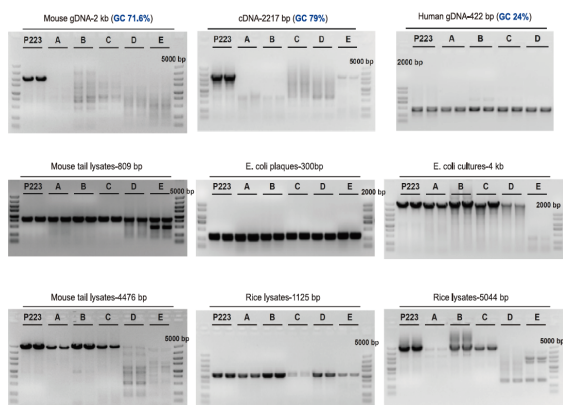
Phone: [+1 \(415\) 906-5211](tel:+1(415)906-5211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)



■ Amplification of the 2 kb fragment



2 × Rapid Taq Plus Master Mix (Dye Plus), Supplier A, and Supplier B were used to amplify the 2 kb fragment according to the reaction programs recommended in their respective manuals. P223 completed the amplification in just 30 minutes, significantly reducing the time required.



2 × Rapid Taq Plus Master Mix (Dye Plus), and Suppliers A-E were used to test the compatibility of GC-poor/rich systems and different types of templates. The results show that P223 is compatible with systems having a GC content range of 24% to 79%, animal and plant lysates, and bacterial plaques/cultures. Its amplification success rate and specificity are superior to those of Suppliers A-E.

Biorbyt Ltd.

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

Email: info@biorbyt.com, support@biorbyt.com
Phone: +44 (0)1223 859353 | Fax: +1 (415) 651-8558

Biorbyt LLC

68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713-2847
United States

Email: info@biorbyt.com, support@biorbyt.com
Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558