

## Product Datasheet

# Vazyme - ChamQ Blue Universal SYBR qPCR Master Mix (Q312-03)

**Catalog Number** Q312-03

**Category** Tools

**Description** This product is a premium qPCR premix designed for exceptional performance with the SYBR Green I intercalating fluorescence method. Its distinct blue color ensures easy and precise sample handling. At its core is Champagne Taq DNA Polymerase, a cutting-edge antibody-based hot-start DNA polymerase that delivers unparalleled specificity and ultra-high sensitivity. Paired with an advanced, qPCR-optimized buffer and proprietary specificity enhancers, this premix is perfect for achieving highly reliable and sensitive results. The inclusion of a specially formulated ROX Passive Reference Dye ensures seamless compatibility across various qPCR instruments, with no need for ROX concentration adjustments. Just add your primers and templates, and you're ready to experience precise, efficient amplification every time.

**Usage Notes** Restricted to UK and Ireland's customers ONLY

---

### Biorbyt Ltd.

7 Signet Court, Swann 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 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](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)

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

**Storage**

Store at -30 ~ -15°C and ship at ≤0°C. Performance Broad Quantification Range Arabidopsis cDNA was subjected to a 5-step, 10-fold serial dilution and amplified using the ChamQ Blue Universal SYBR qPCR Master Mix (Vazyme #Q312) to target the GAPDH gene (instrument: ABI QuantStudio 3). The results demonstrated that Vazyme #Q312 exhibits excellent linearity across a wide range of template concentrations. High Amplification Specificity Using 293 gDNA and HeLa cDNA as templates, three different genes were amplified under identical reaction conditions with Vazyme #Q312 and competitor dye-based qPCR reagents (instrument: ABI QuantStudio 3). The results demonstrated that Vazyme #Q312 exhibited higher specificity compared to similar products across various amplification systems. Strong Program Compatibility Figure A compares the reaction times of Vazyme #Q312 under standard and fast cycling protocols on various instruments. Figure B shows the expression analysis of a target gene using rice leaf cDNA subjected to a 5-step, 10-fold serial dilution. Amplifications were performed with Vazyme #Q312 under both standard and fast cycling conditions (instrument: ABI QuantStudio 3). The results indicate that Vazyme #Q312 is highly compatible with both standard and fast quantification protocols.

**Background**

Only available for the UK and Republic of Ireland

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

Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558