

**Product Information:****2x SybrGreen qPCR Master-mix (Cat.: Q2100A/ Q2100B/ Q2100N)****Storage: @-20°C**

**The 2x qPCR Master Mix (Q2100A)** is a ready-to-use hot-start 2x qPCR cocktail containing everything (except a DNA template and primer set), specifically optimized for efficient amplification of GC-rich and/or problematic templates by qPCR. Suitable for qPCR instruments: **ABI-7000/7300/7700/7900, Step-One/+.**

**The 2x qPCR Master Mix (Q2100B)** is a ready-to-use hot-start 2x qPCR cocktail containing everything (except a DNA template and primer set), specifically optimized for efficient amplification of GC-rich and/or problematic templates by qPCR. Suitable for qPCR instruments: **ABI-7500/Q6/Q7Flex/Vii7, Stratagene MX3000/3005P, Qiagen Rotor-gene 3000.**

**The 2x qPCR Master Mix (Q2100N)** is a ready-to-use hot-start 2x qPCR cocktail containing everything (except a DNA template and primer set), specifically optimized for efficient amplification of GC-rich and/or problematic templates by qPCR. Suitable for qPCR instruments: **Roche LightCycler 480/96, MJ-C4/O2 Takara TP-8000, Bio-Rad iQ/iQ5/CFX96/C1000, Qiagen Rotor-gene 6000/G/Q, Pikoreal 96.**

**Suggested PCR Protocol:**

I. Preparation of qPCR Master Mix for a single reaction (total volume: 20uL):

Component	Volume (μL)	Final Concentration
2x qPCR Mastermix	10	1x
Forward primer (10μM)	0.5	250nM
Reverse primer (10μM)	0.5	250nM
DNA Template	1-5	(1pg-0.5ug) gDNA
PCR grade water	up to 20 μL	

II. Setup typical thermal cycling parameters

<b>1. Enzyme activation step:</b>	94°C	30 seconds
<b>2. 37-45 cycles:</b>		
Denaturation	94°C	5 seconds
Annealing	55-60°C	35 seconds (Fluorescent signal collection)
<b>3. Dissociation stage</b>		

**Precautions and Disclaimer:** This product and procedure described are intended for R&D use only. Purchase of this product does not convey a license to perform any patented process.

ZmTech Scientific endeavours to assist clients based on the highest level of customer service, competitive pricing and customer satisfaction. Our mission is: Convenience, Speed, Safety and Economy.