

# Arraystar SYBR<sup>®</sup> Green Real-Time qPCR Master Mix

Cat#: AS-MR-005-5

Cat#: AS-MR-005-25

Cat#: AS-MR-006-5

Cat#: AS-MR-006-25

## Instruction Manual version 1.0

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## Product Summary

### Kit components

Cat#: AS-MR-005-5

Catalog Number	Contents	Size	Storage
AS-MR-005-5-01	2× SYBR® Green qPCR Master Mix (ROX-)	5 mL	-20°C
AS-MR-005-5-02	RNase-free Water	5 mL	-20°C

Cat#: AS-MR-005-25

Catalog Number	Contents	Size	Storage
AS-MR-005-25-01	2× SYBR® Green qPCR Master Mix (ROX-)	25 mL	-20°C
AS-MR-005-25-02	RNase-free Water	25 mL	-20°C

Cat#: AS-MR-006-5

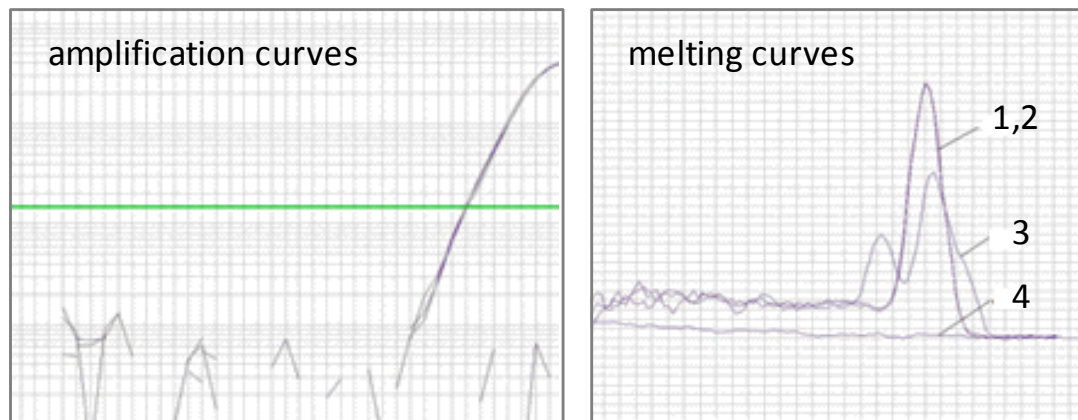
Catalog Number	Contents	Size	Storage
AS-MR-006-5-01	2× SYBR® Green qPCR Master Mix (ROX+)	5 mL	-20°C
AS-MR-006-5-02	RNase-free Water	5 mL	-20°C

Cat#: AS-MR-006-25

Catalog Number	Contents	Size	Storage
AS-MR-006-25-01	2× SYBR® Green qPCR Master Mix (ROX+)	25 mL	-20°C
AS-MR-006-25-02	RNase-free Water	25 mL	-20°C

## Product Description

SYBR® Green real-time quantitative PCR Master Mix is a highly optimized reaction mix containing all the components, including hot start Taq DNA polymerase, SYBR® Green I fluorescent dye, MgCl<sub>2</sub>, dNTPs and stabilizers. You only need to add your template and primers to complete the qPCR reactions. The Master Mix is supplied as a 2× concentrate. The Master Mix has excellent performance properties (Fig. 1).



**Figure 1.** Highly specific amplification with Arraystar Master Mix. In the post-amplification melting curve analysis, the PCR products by Arraystar Master Mix had single peak dissociation profiles (1 and 2), whereas the PCR products by master mix from competitor A (3 and 4) produced multiple dissociation peaks.

## Protocol

1. Mix the following components with the Master Mix. For use with PCR Arrays, the Forward and Reverse qPCR primers are already included in the plate.

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5.0 $\mu\text{L}$	qPCR mix (SYBR <sup>®</sup> Green)
__ $\mu\text{L}$	Forward primer
__ $\mu\text{L}$	Reverse primer
__ $\mu\text{L}$	Template
__ $\mu\text{L}$	PCR-grade water
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10.0 $\mu\text{L}$	total volume

2. Run the qPCR using the following thermo cycling condition.

Cycles	Temperature	Time
1	95 °C	10 minutes
40	95 °C	10 seconds
	55-65 °C	1 minute
Melting curve analysis		

## **Safety precautions**

SYBR Green dye binds DNA with high affinity. Its safety profile is still being established. This product and its components should be handled only by persons trained in laboratory techniques. It is advisable that suitable protective clothing, such as laboratory overalls, safety glasses and gloves be worn. Avoid contact with skin or eyes. In case of contact, wash immediately with water.



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