



ig® SYBR Green qPCR 2X Master Mix

Manual

Catalog #	3354	3356	3357	
Package Size	200 reactions	500 reactions	2,000 reactions	
Volume	20 μΙ			



Important!

-20°C Storage Required

- * Immediately inspect packages
- * Freeze upon receipt

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Table of Contents

Product Description	3
Applications	3
Benefits	3
Components and Storage	3
Protocol	4
Related Products	5
Ordering Information	5
Technical Support	6



Description:

Intact Genomics SYBR® Green qPCR 2x master mix is a ready-to-use cocktail containing all components except primers and template for the amplification and detection of DNA in qPCR. The ig SYBR® Green qPCR 2x master mix with integrated chemically-modified hot start *Taq* DNA polymerase, SYBR® Green I fluorescent dye, ROX dye*, MgCl₂, dNTPs and stabilizers. This master mix is ideal for high-throughput real-time PCR screening and validation. The amplification step features a high quality hot start *Taq* DNA Polymerase which offers higher fidelity and better amplification.

*The use of ROX dye is necessary for all Applied Biosystems instruments and is optional for the Stratagene Mx3000P™, Mx3005P™, and Mx4000™ cyclers. Bio-Rad, Qiagen, Eppendorf, Illumina and Roche instruments do not require ROX dye. The concentration of ROX Dye is (5 nM) for this product.

Applications:

- Gene expression data validation
- Absolute quantification
- Mutation detection
- Pathogen detection
- Viral detection
- Genetically modified organisms (GMO) characterization
- Genetic profiling

Benefits:

- Enhanced efficiency, specificity, and sensitivity
- Compatible with all real-time PCR instruments
- Superior gene expression results under various cycling conditions
- Robust and active for cDNA synthesis at temperatures up to 55 °C

Product Components and Storage Temperature:

- ig® SYBR Green qPCR 2x Master Mix
- −20 °C



Protocol:

- 1. Place kit components, primers and RNA samples on ice.
- 2. Mix and then centrifuge briefly to collect contents at the bottom of the tube.
- 3. Prepare a master mix for each reaction and control plus 10% extra to allow for pipetting error according to the following table:

PCR reaction set up:		
Diluted cDNA	1-5 µI	
Forward primer (5 µM)	1.0 µl	
Reverse primer (5 µM)	1.0 µl	
ig™SYBR Green qPCR 2x master mix	10.0 µl	
H ₂ O up to	20.0 µl	

- 4. Mix the reaction mixture thoroughly.
- 5. Program the thermal cycler according to the manufacturer's instructions.
- 6. A typical PCR cycling program is outlined in the following table:

PCR Cycling Conditions						
Steps	Tempera- ture	Time	Cycles			
Initial denaturation	95 °C	15 min	1			
Denaturation	95 °C	5 sec				
Annealing/Extension**	~60 °C	30 sec	30-40			
Melting curve analysis	According to instrument guidelines					

- 7. Place the PCR tubes in the thermal cycler and start the cycling program.
- 8. Analyze the data according to manufacturer protocol.

Note: For 3 step cycling protocols, anneal at optimal annealing temperature for 30 sec followed by the minimum time required for data acquisition at 72 °C according to instrument guidelines.



Related Products:

- igScript[™] One Step RT-PCR Kit (Cat.# 4211)
- igScript[™] One Step RT-qPCR Kit (Cat.# 4214)
- igScript™ First Strand cDNA Synthesis Kit (Cat.# 4312)
- igScript™ Reverse Transcriptase (Cat.# 3344)
- igScript[™] Probe Based One Step RT-qPCR Kit (Cat..# 4243,4245, 4247)

Ordering Information:

- Order online within the USA. Place orders on www.intactgenomics.com using our secure Shopping Cart.
- Order by email, phone, or fax.

Email: sales@intactgenomics.com

Phone: (314) 942-3655 | Toll-free: 855-835-7172 | Fax: (314) 942-3656

• Order via our distributors.



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Our hours are Monday - Friday, 8AM to 5PM, U.S. Central Standard Time.

Intact Genomics, Inc.

11840 Westline Industrial Drive, Suite 120, St. Louis, MO. 63146, USA

Phone: (314) 942-3655 | Toll-free: 855-835-7172 | Fax: (314) 942-3656

Email: sales@intactgenomics.com | ig@intactgenomics.com

Website: www.intactgenomics.com



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