

Intact Genomics

Higher Quality, Lower Price, Better Result

Enzymes & Cloning Kits

Cas9 Nuclease • Hot Start Taq DNA Polymerase •
Hot Star Taq 2x Master Mix • Taq DNA Polymerase •
Taq DNA Polymerase with Dye • Taq DNA Polymerase 2x Premix with Dye • Hot Start Pfu DNA Polymerase •
Pfu 2x Master Mix • Pfu DNA Polymerase •
igScript™ Reverse Transcriptase • ig™ SYBR Green qPCR 2x Master Mix • T4 DNA Ligase • Taq DNA Ligase • T4 DNA Polymerase • T4 Polynucleotide Kinase (PNK) • Klenow • Pol I • T5 Exonuclease • ig-Fusion™ Cloning Kit

RT-PCR & RT-qPCR Kits

igScript™ One Step RT-qPCR Kit • igScript™ First Strand cDNA Synthesis Kit • igScript™ RT-PCR Kit • igScript™ RT-qPCR Kit

Chemically & Electroporation

Competent Cells

ig™ 5a • ig™ 10B • BL21 • BL21(DE3) • Phage Display Cells (TG1, SS320) • BAC Cells (10B, 10B Copy-Up) • Custom Cells

Custom Services

DNA Preparation: High HMW DNA • BAC DNA •
High-Throughput DNA | DNA Library Construction:
Random Shear BAC Library • Partial Digestion BAC Library • Fosmid Library
Library Screening: Colony Picking • Colony Duplication • 3D DNA Pools • Gridding & High Density Colony Filters • BAC/Fosmid end Sequencing
Other Services: Long DNA Fragment Cloning and Manipulation • BAC Engineering • Custom Vector Construction



igSYBR™

Green qPCR 2X Master Mix

Catalog #	3355	3356
Package Size	100 reactions (20 µl rxn vol)	500 reactions (20 µl rxn vol)

Intact Genomics, Inc.

1100 Corporate Square Drive, Suite 257
St. Louis, MO 63132-2933, USA
Phone 314.942.3655 **Fax** 314.942.3656
Email sales@intactgenomics.com
www.intactgenomics.com

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1100 Corporate Square Drive, Suite 257
Saint Louis, Missouri 63132, USA

ig™ SYBR® Green qPCR 2X Master Mix

Description

Ig 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.

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 Includes

- 1) ig™ SYBR Green qPCR 2x Master Mix

Storage Temperature

-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 µl
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	Temperature	Time	Cycles
Initial denaturation	95 °C	15 min	1
Denaturation	95 °C	5 sec	30-40
Annealing/Extension**	~60 °C	30 sec	
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.

** 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.