

FastGene® IC Green qPCR Universal Kit



Universal - for any qPCR instrument

The FastGene® IC Green Kit is universal. The reference dyes come in a separate vial and can be added to the master mixes once. Hence, this kit can be used with qPCR instruments which need a high ROX™ concentration as well as instruments that need a low concentration or no ROX™. A special version with fluorescein is also available

No inhibition - For highest sensitivity

It is well-known that SYBR® Green is extensively inhibiting the qPCR. This fact led to the development of SYBR® resistant enzymes. An alternative approach is to develop a dye that does not inhibit the reaction. This dye is named FastGene® IC Green. FastGene® IC Green is an intercalating dye, only detecting double stranded DNA. By not inhibiting the reaction, the FastGene® IC Green Kit is able to detect genes at a lower CT-value, creating a higher sensitivity!

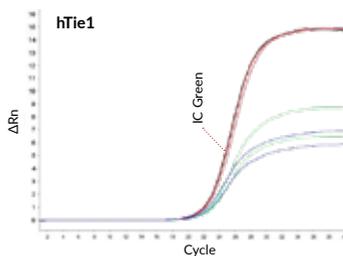
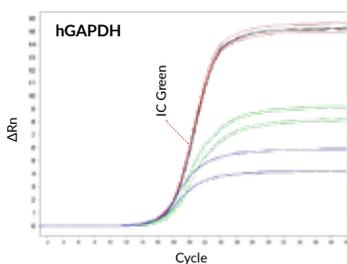
The superior buffer chemistry enables the detection of low copy number genes, which could not be detected with other dyes. The comparison to competitors shows that FastGene® IC Green is one of the best qPCR mixes available. This has been confirmed by customers analysing various genes.

Robust chemistry for faster results

The FastGene® IC Green buffers were designed to have a superior robustness. This guarantees the linearity of the qPCR and creates a better accuracy, essential for reproducible results. Additionally, qPCRs can be performed at shorter amplification times, for example using fast protocols.

Applications

- Quantification of gene expression
- Quantification of gene copy number
- Melt-curve analysis
- Detection of gene expression (knock-out analysis)



Comparison of FastGene® IC Green (black & red) with the market leading competitors KB (green) and T (blue). The differences of the C_t -values were under 1 cycle.

Ordering information

Cat. No.	Product	Content
LS4001	FastGene® 2x IC Green Universal (ROX™)	100 reactions
LS4005	FastGene® 2x IC Green Universal (ROX™)	500 reactions
LS4050	FastGene® 2x IC Green Universal (ROX™)	5000 reactions
LS4101	FastGene® 2x IC Green Universal (Fluorescein)	100 reactions
LS4105	FastGene® 2x IC Green Universal (Fluorescein)	500 reactions
LS4150	FastGene® 2x IC Green Universal (Fluorescein)	5000 reactions

FastGene® Probe qPCR Universal Kit



Save time with fast protocols

The unique buffer composition enables a faster reaction: apply a fast protocol, available on many modern qPCR instruments, and save plenty of time.

Perfect efficiency

For the FastGene® Probe qPCR, use hydrolysis probes, enabling multiplex, and leading to very specific signal and low to none background fluorescence. The buffer chemistry, combined with optimal primer design, is the most important part of a Probe assay based reaction. Here we present the superior buffer system of the FastGene® Probe Universal Kit.

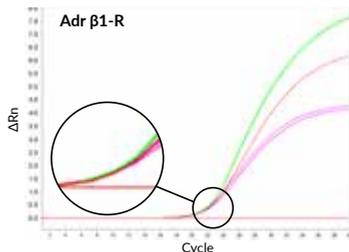
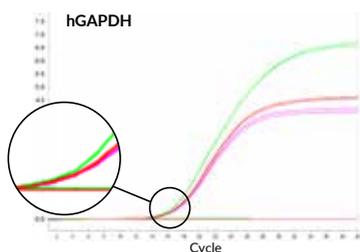
Get a very high dynamic range and reproducible results by using the FastGene® Probe Universal mix. Achieve higher efficiencies and more accurate results.

Robust chemistry for multiplexing

The robustness of the buffer ensures the ability to perform multiplex qPCR. Get the highest sensitivity for multiple targets using the FastGene® Probe Universal Kit. The FastGene® Probe Universal Kit is compatible with all real time PCR instruments.

Applications

- Quantification of gene expression
- Quantification of gene copy number
- Multiplex qPCR
- SNP genotyping
- NGS validation



Reactions (25 μ l) were set up according to manufacturer's instructions, with 25 ng of hgDNA as template, and 0.5 μ M of each primer. PCR was performed for a total of 35 cycles. Green: Competitor KB. Red: Competitor T. Pink: Probe qPCR Universal Kit.

Ordering information

Cat. No.	Product	Content
LS4501	FastGene® 2x Probe Universal (ROX™)	100 reactions
LS4505	FastGene® 2x Probe Universal (ROX™)	500 reactions
LS4550	FastGene® 2x Probe Universal (ROX™)	5000 reactions

FastGene® IC Green 1-Step RT-qPCR



Robust chemistry for 2 reactions in one tube

The FastGene® IC Green 1-Step mix contains a reverse transcriptase and a DNA polymerase. Having a 1-tube reaction setup for the reverse transcription and for the quantitative PCR has many advantages: 1) The 2x master mix ensures the same concentration of buffer and enzyme when performing the experiment multiple times, 2) it is less prone to wrong mixtures of the reaction mix contents, 3) higher convenience due to less preparation time, and many more.

Applications

- Quantification of gene expression
- Quantification of gene copy number
- Melt-curve analysis
- Detection of gene expression (knock-out analysis)

Ordering information

Cat. No.	Product	Content
LS4301LR	2x FastGene® IC Green 1-Step Mix (low ROX™)	1 ml (100 reactions)
LS4305LR	2x FastGene® IC Green 1-Step Mix (low ROX™)	5 x 1 ml (500 reactions)
LS4301HR	2x FastGene® IC Green 1-Step Mix (high ROX™)	1 ml (100 reactions)
LS4305HR	2x FastGene® IC Green 1-Step Mix (high ROX™)	5 x 1 ml (500 reactions)

FastGene® Probe 1-Step RT-qPCR



High-performance enzymes for incredible sensitivity

The FastGene® Probe 1-Step Mix was developed for the rapid detection of multiple gene expressions using multiplex qPCR directly from RNA. The optimal conditions for the reverse transcription as well as for the DNA polymerisation ensures the highest sensitivity and the detection of low copy genes.

Applications

- Quantification of gene expression
- Quantification of gene copy number
- Multiplex qPCR
- SNP genotyping
- NGS validation

Ordering information

Cat. No.	Product	Content
LS4701LR	2x FastGene® Probe 1-Step Mix (low ROX™)	1 ml (100 reactions)
LS4705LR	2x FastGene® Probe 1-Step Mix (low ROX™)	5 x 1 ml (500 reactions)
LS4701HR	2x FastGene® Probe 1-Step Mix (high ROX™)	1 ml (100 reactions)
LS4705HR	2x FastGene® Probe 1-Step Mix (high ROX™)	5 x 1 ml (500 reactions)