NEW

FastGene® IC Green qPCR Universal Kit

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 C_T-value, creating a higher sensitivity!

Exclusively by Nippon Genetics

Applications

- Quantification of Gene Expression
- Quantification of Gene Copy number
- Melt-curve analysis
- Detection of Gene Expression (Knock-out analysis)

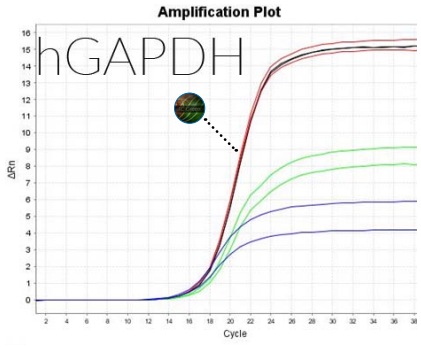

Fig.1: Comparison of FastGene® IC Green (black & red) with the market leading competitors KB (green) and T (blue). The differences of the C_T-values were under 1 cycle.

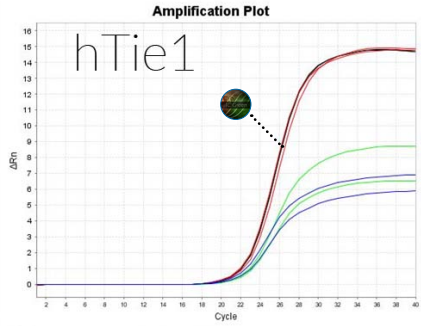

Fig. 2: Comparison of FastGene® IC Green (black & red) with the market leading competitors KB (green) and T (blue). The differences of the C_T-values were under 1 cycle.

No inhibition - For the highest sensitivity

The superior buffer chemistry enables the detection of low copy number genes, which with other dyes could not be detected. The comparison to competitors shows that FastGene® IC Green is one of the best qPCR mixes available. This has been confirmed by customers analyzing many different 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 lower amplifcation times for example using fast protocols.

Universal - for any qPCR instrument

The FastGene® IC Green kit is universal. The reference dyes come in a separate vial and can be added once to the master mixes. 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™. There is even a special version with fluorescein.

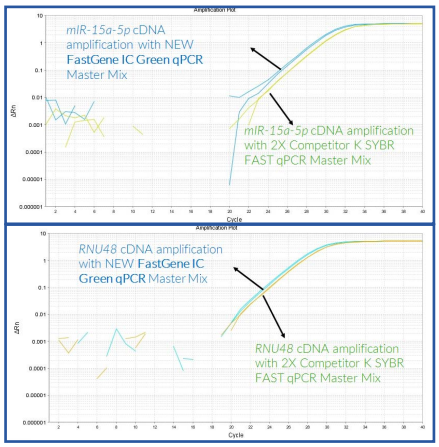

Fig. 3: Comparison of FastGene® IC Green (blue) with the market leading competitors KB (yellow). The differences of the C_T-values were under 1 cycle. Data was kindly provided by an independent researcher.

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

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NEW

FastGene® Probe qPCR Universal Kit

PROBE qPCR, using hydrolysis probes, has many advantages: Ability to multiplex, 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 mix.

Applications

- Quantification of Gene Expression
- Quantification of Gene Copy number
- Multiplex qPCR
- SNP genotyping
- NGS validation

Perfect efficiency

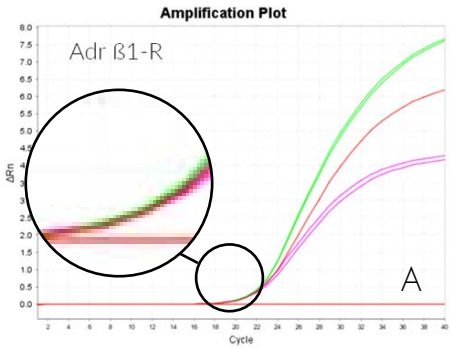
Get a very high dynamic range and reproducible results by using the FastGene® PROBE Universal mix. Achieve higher efficiencies and more accurate results

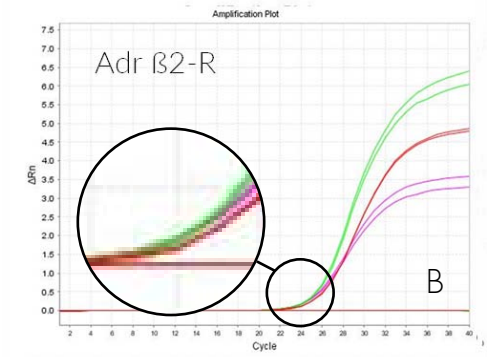
Robust chemistry for multiplexing

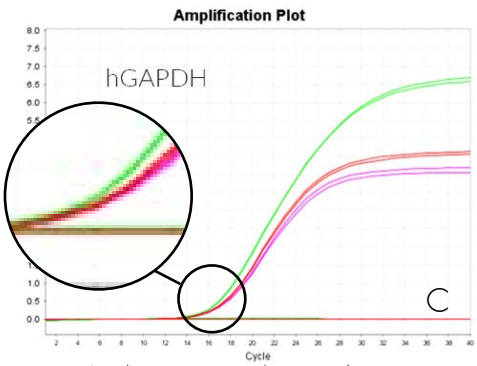
The robustness of the buffer ensures the ability to perform multiplex qPCR. Get the highest sensitivity for multiple targets using the FastGene® PROBE Universal mix. The FastGene® PROBE Universal mix is compatible with all real-time PCR instruments.

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.







Reactions (25 µl) were set up according to manufacturer's instructions, with 25 ng of hgDNA as template, and 0.5 µM of each primer. Qiagen Q-solution was included at a final concentration of 1X. PCR was performed for a total of 35 cycles.

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