

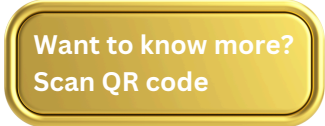


# DTI Green HiFid Taq HS Premix

## DTI Green HiFid Taq HS Premix

DTI Green HiFid Taq HS Premix, an intercalating dye-based qPCR master mix for real-time RT-PCR (qPCR), is recommended for most real-time PCR applications including gene expression analyses, genotyping, and high-throughput studies. DTI Green HiFid Taq HS Premix includes DTI Green, a qPCR reagent for intercalator-based RT-PCR (qPCR). In addition to being ideal for most standard real-time PCR reactions, this kit is recommended when a higher yield of PCR product is needed or when amplifying longer products (up to 570 bp). This DTI Green HiFid Taq HS Premix is supplied at a 2X concentration and allows easy reaction assembly; by simply adding primers, template, and sterile distilled water, intercalator-based qPCR can be performed.

DTI Green HiFid Taq HS Premix contains DTI FabTaq, a hot-start PCR enzyme that includes an anti-Taq antibody. The DTI FabTaq HS enzyme, in combination with its qPCR optimized buffer, allows for high amplification efficiency and detection sensitivity in qPCR. The 2X qPCR premix also contains Tli RNase H, a heat-resistant RNase H that minimizes qPCR inhibition as a consequence of residual mRNA in the input template cDNA. This product enables accurate detection of targets even during high-speed reactions, making it possible to conduct fast RT-PCR (qPCR) analyses and achieve excellent reproducibility and reliability.



## Why Choose DTI Brand ?

*DTI is our new in-house brand, we are manufacturing products in India, where we can design products for you and deliver them to you at affordable prices.*



ISO 9001  
certification



Quick Turn around time



Affordable Price



Strict temperature  
Control



Product  
customization

## Specifications

- Lower Cq values as a result of fast extension rates
- Use with broad range of amplicon sizes, even over 500 bp
- Convenient 2X master mix is excellent for high-speed qPCR
- High sensitivity: detects fewer than 100 copies
- Hot-start PCR enzyme enables high efficiency and sensitivity in real-time PCR (qPCR)
- Compatible with all commonly used real-time PCR (qPCR) instruments
- Minimizes qPCR inhibition due to residual mRNA in input cDNA
- Includes DTI Green for intercalator-based qPCR

## Applications

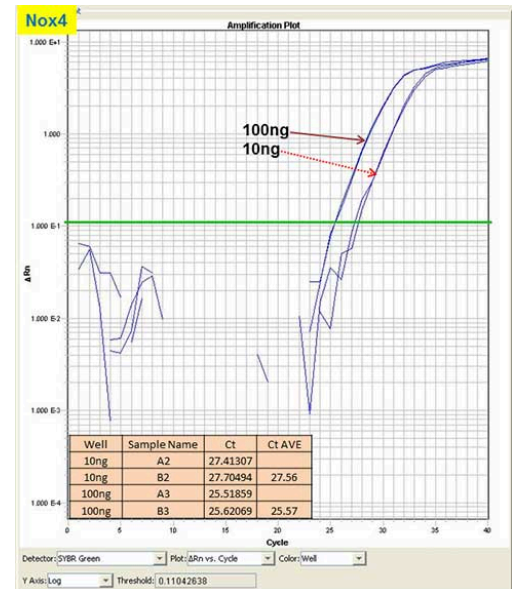
- DTI Green qPCR using DTI Green and ROX Reference Dye
- Gene expression analysis
- Genotyping by real-time PCR
- High-throughput real-time PCR
- Amplification of long products



## qPCR without optimization using DTI Green HiFid Taq HS Premix

Nox4 expression in THP-1 monocytes was analyzed by RT-qPCR. DTI Green HiFid Taq HS Premix was used to amplify a portion of Nox4 from cDNA. Amplification curves were obtained using template cDNA equivalent to 10 and 100 ng of RNA (Figure 1), confirming successful amplification of the Nox4 target.

**Figure 1. qPCR amplification curves for Nox4. Amplification was performed with 10 and 100 ng of cDNA template (RNA equivalent). The no-template control was not amplified. The resulting Ct values are shown in the orange box.**



Product	Cat. No.	Pack size
DTI Green HiFid Taq HS Premix	DT0602.100	100 Reactions
	DT0602.500	500 Reactions

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