

# DTI Green HiFid Taq HS II Premix

## Hot-start Green dye added PCR master mix

DTI Green HiFid Taq HS II Premix is a Green Master Mix that effectively suppresses amplification of primer dimers and off-target products, and is therefore recommended for real-time PCR (qPCR) when high specificity is critical. Use this product when primer design has been optimized, but when an increase in specificity of the qPCR assay is still needed. DTI Green HiFid Taq HS II Premix includes DTI Green, a reagent designed for intercalator-based qPCR. Additionally, DTI Green HiFid Taq HS II Premix is supplied at a 2X concentration, enabling easy reaction assembly. The premix also contains heat-resistant Tli RNase H Plus, which effectively degrades residual mRNA found in the input cDNA, thereby minimizing qPCR inhibition as a result of residual mRNA presence.

Our DTI Green premix products contain DTI FabTaq DNA Polymerase Hot-Start Version, a hot-start PCR enzyme that includes an anti-Taq antibody. The use of an anti-Taq antibody allows highly reproducible and reliable qPCR. DTI Green HiFid Taq HS II Premix also enables high reaction specificity and superior performance with GC-rich templates.



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## 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

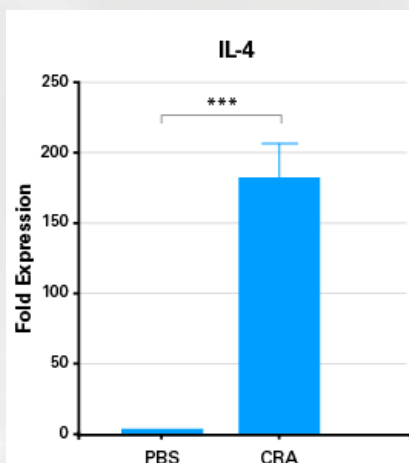
- High specificity minimizes primer-dimer formation and nonspecific amplification
- Excels with GC-rich targets
- 2X master mix provides convenience
- High sensitivity: detects fewer than 100 copies
- Compatible with all commonly used qPCR instruments
- Includes DTI Green for intercalator-based qPCR
- Tli RNase H Plus reduces inhibition from mRNA/cDNA hybrids in qPCR
- Eliminates the need for a separate RNase H digestion step when using low RNase H RT

## Application

- Gene expression analysis
- qPCR
- Genotyping
- Suppression of primer dimers or off-target products

## Accurate gene expression analysis with DTI Green HiFid Taq HS II Premix

In mice, exposure to cockroach allergen (CRA) provides a model for allergic airway inflammation. In this experiment, the expression of cytokine interleukin 4 (IL-4) was measured in lung samples from mice treated with CRA. Quantitative PCR (qPCR) was performed using the DTI Green HiFid Taq HS II Premix [kit](#) with an Applied Biosystems 7500 Real-Time PCR System. The DTI Green HiFid Taq HS II Premix kit provided accurate gene expression measurement, allowing the quantification of relative IL-4 induction levels in response to CRA.



C <sub>t</sub> values for mouse <i>IL-4</i> and <i>GAPDH</i>				
Mouse No.	Treatment	Target	<i>IL-4</i> C <sub>t</sub>	<i>GAPDH</i> C <sub>t</sub>
1	CRA	<i>IL-4</i>	32.98	25.52
			32.88	25.53
			33.12	25.9
2	CRA	<i>IL-4</i>	32.22	23.53
			32.08	23.54
			32.49	23.62
3	CRA	<i>IL-4</i>	31.28	23.06
			31.68	23.02
			31.42	22.98
4	PBS	<i>IL-4</i>	34.48	19.94
			35.23	19.88
			35.83	19.93
5	PBS	<i>IL-4</i>	36.15	20.09
			36	20.17
			35.84	20.29

The DTI Green HiFid Taq HS II Premix enzyme efficiently and specifically amplified mouse IL-4 and the GAPDH control. Relative expression of IL-4 was higher in CRA-treated lung samples than in PBS-treated samples.

Relative expression levels of IL-4 as determined by qPCR. Fold expression levels of IL-4 (compared to GAPDH) in mouse lung samples from mice treated with either PBS or CRA.

## Product

## Cat. No.

## Pack size

DTI Green HiFid Taq HS II Premix

DT0601.100

100 Reactions

DT0601.500

500 Reactions

Want to know more?  
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