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- Get a Free **Monarch EcoRack** with any **Monarch DNA/RNA Purification Kit**
- Special reduced prices on NEB's competent ***E. coli* cells for Cloning**
- Test a free sample of **Luna Universal (RT) qPCR Kits** and experience unparalleled performance!
- **Get a free Whitepaper:** Learn how NEB developed & optimized the **Luna qPCR Kits** to outperform the competition. [Download here](#)



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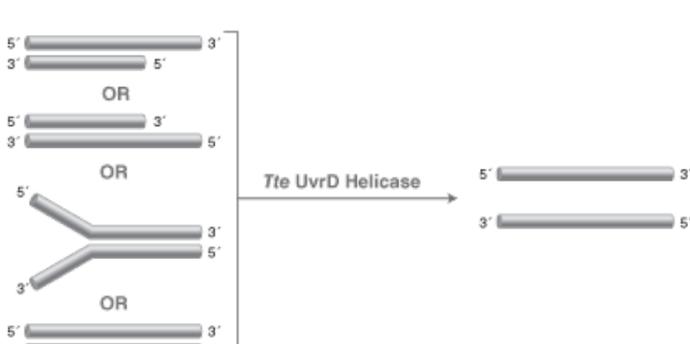
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**New product:**  
**Tte UvrD Helicase**

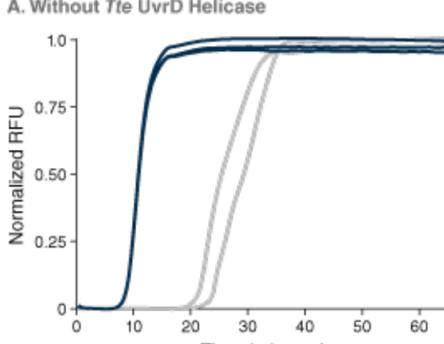
**Tte UvrD Helicase** is a repair helicase capable of unwinding double-stranded DNA, without a requirement for a specific flap or overhang structure, isolated from the thermophilic organism *Thermoanaerobacter tengcongensis*.



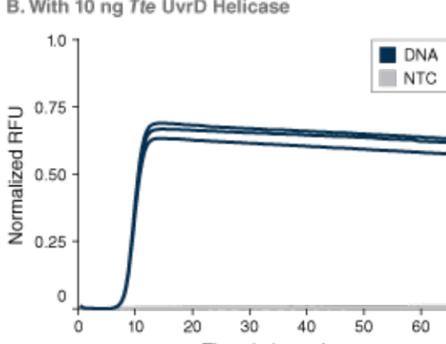
This thermostable enzyme is active on a wide range of DNA substrates and has proven to be a useful additive for improving specificity of isothermal amplification reactions, particularly in conjunction with the **WarmStart® LAMP Kit (DNA & RNA)**.

**Tte UvrD Helicase eliminates non-template amplification in LAMP reactions**

**A. Without Tte UvrD Helicase**



**B. With 10 ng Tte UvrD Helicase**



LAMP reactions were performed using the **WarmStart LAMP Kit (DNA & RNA) (NEB #E1700)** and a primer set prone to high levels of non-template amplification. Without Tte UvrD Helicase (left), the positive reaction (+DNA) amplifies in ~8 minutes while the no-template control (NTC) amplifies in ~20 minutes. In the presence of 10 ng Tte UvrD Helicase (right), the positive reaction maintains its rapid amplification time with a slight reduction in total RFU, while the NTC reaction is completely suppressed.

[View Product Details](#)

[Learn More About Isothermal Amplification](#)

**What is Enzymes for Innovation?**

**Tte UvrD Helicase** is one of our **Enzymes for Innovation (EFI)**. EFI is a project initiated by NEB to provide unique enzymes to the scientific community in the hopes of enabling the discovery of new and innovative applications. These enzymes have interesting properties and unique specificities.



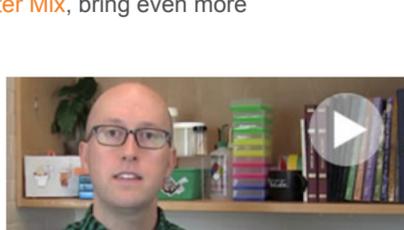
Sir Richard Roberts describes the Enzymes for Innovation initiative, and the importance of new enzyme discovery and screening.

**nebtv** **What's trending in Science!**

**Featured video:**  
**Colorimetric LAMP as a diagnostic tool**

Isothermal amplification techniques, such as **Loop-Mediated Isothermal Amplification (LAMP)** can be very useful, as they are extremely fast and do not require thermocyclers – features that lend themselves well to point-of-care diagnostics. Further, isothermal techniques that employ rapid visual detection, such as NEB's **WarmStart Colorimetric LAMP 2X Master Mix**, bring even more advantages to field-based testing.

In this **episode of NEB TV**, find out how Colorimetric LAMP is being used by the World Mosquito Program to screen mosquitoes in order to prevent mosquito-borne illnesses. Also hear how other scientists, including those from NEB, are using this technology in interesting applications, with the goal of improving human health.



[View Episode of NEB TV](#)

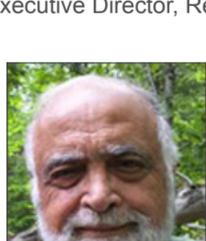
Learn More about isothermal amplification in our [video tutorial](#).

**Introducing the NEB® Podcast Series**  
**LESSONS from Lab & Life**



In the latest episode of the NEB Podcast, Lessons from Lab & Life™, hear how Reforest The Tropics carbon offset reforestation projects in Costa Rica are helping U.S. emitters offset their footprints.

- **Dr. Herster Barres**, Founder, Reforest The Tropics
- **Harry Hintlian**, Chairman of the Board, Reforest The Tropics
- **Greg Powell**, Executive Director, Reforest The Tropics



**Dr. Herster Barres**

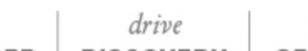
**Harry Hintlian**

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