eurofins
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TINA

Improve your PCR assays.

Experience the TINA EFFECT.

... Since we use TINA primers, we have no more problems with one particular PCR reaction which always gave us very faint and unspecific bands. ...

Univ-Doz. Dr. Ilja Vietor, Head of the Cell Differentiation Laboratory, Innsbruck Medical University, Austria

Check if TINA is right for your PCR

	TINA Primer
Performing multiplex PCR assays	✓
Optimising end-point or real-time PCRs	✓
Degenerate primers are required	✓
You are working with clinical or impure sample material	✓
PCR primer is the limiting factor	✓
Using stringent buffers in your PCR	✓

It is easy to label a primer with TINA since a specific design is not required. There is also no need to redesign existing primers, change the buffer system or the DNA polymerase.

Order your TINA primers online to experience the TINA effect!

PREFFERED SUPPLIER OF TINA PRIMERS

TINA – Built For The Extreme.

Revolutionising PCR Optimisation

Optimising PCR assays requires careful consideration of different parameters such as primer design, template and primer concentration, buffer composition, and annealing temperature.

TINA stands for Twisted Intercalating Nucleic Acid. It is a novel molecule for labelling PCR primers at the 5' end.

A stable performance over a wide range of primer concentrations and annealing temperatures is ensured with TINA.

PCR assays achieve increased sensitivity without compromising their specificity!

TINA primers are HPLC purified for supreme quality and available in 5 synthesis scales for any project size.

The TINA Effect In Real-Time & End-Point PCRs.

Key Abilities of TINA Primers

The super features of TINA optimise several parameters of end-point and real-time PCR assays.

TINA primers:

- Lower the optimum primer concentration by 30 to 50%
- Increase the annealing temperature (Ta) up 8°C
- Reduce the cycle of quantification (Cq) in real-time PCRs (see Fig. 1)

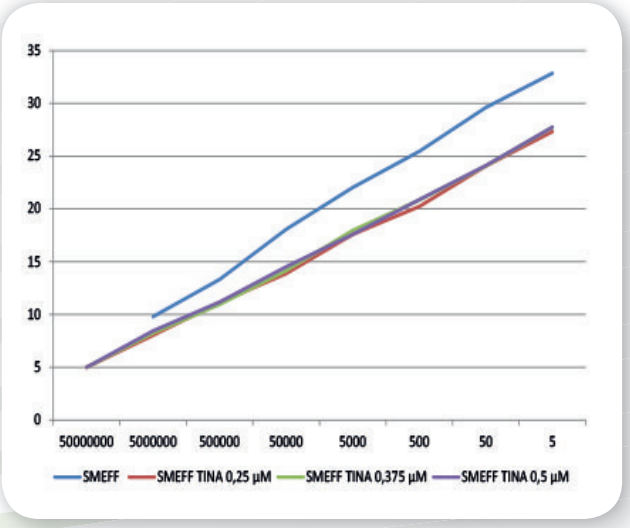

Fig.1 Comparison of Cp / Ct values after Real-Time PCR with non – modified oligos (0.5 µM) and TINA modified oligos (0.25 to 0.5 µM). Read the TINA application note for more details.

Improved PCR Assays.

Achieving Better Results

Using TINA primers improves the overall performance of PCR assays.

- **Improved efficiency & kinetics**

  Particularly whenever primers are the limiting factor

- **Enhanced overall specificity & sensitivity**

  Increased probaility of enhanced analytical and clinical sensitivity

- **Increased robustness**

  PCRs tolerate impure sample material, withstand exo-nucleases, and endure high background genomic DNA (see Fig. 2)

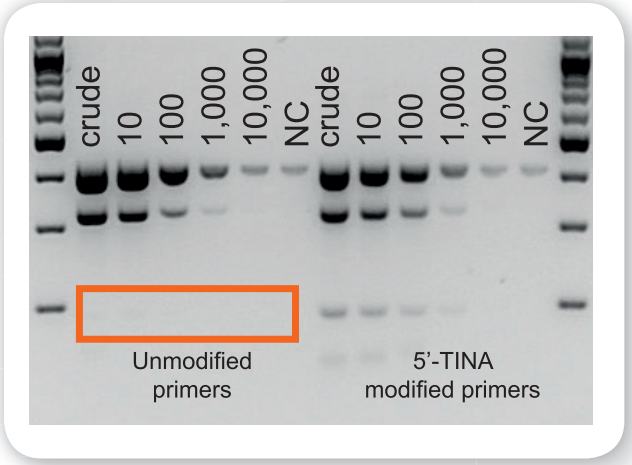

Fig.2 Amplification of an octaplex end-point PCR by unmodified primers and 5'-TINA modified primers. The orange box highlights the lack of amplicons for the gene with unmodified primers. Read the TINA application note for more details.