



BrilliantDye™

Terminator Cycle Sequencing Kit

Improved performance compared to BigDye® for a better price

- ✓ The robustness and early start from BigDye® v1.1
- ✓ Combined with the long read lengths of BigDye® v3.1
- ✓ No need for changes in protocol, settings or calibration
- ✓ Based on BigDye® v1.1 mobility
- ✓ Ultra competitive pricing



Introduction

The BrilliantDye™ Terminator Cycle Sequencing Kit is a complete kit, based on the trusted Sanger Chain Termination method.

Format

The kit is delivered as a 2.5x concentrated ready-reaction pre-mix, fully optimized for a highly flexible chemistry, designed for all kinds of Sequencing applications, including de novo sequencing and resequencing. The kit generates data with uniform peak heights and optimized signal balance to produce long, high-quality reads.

Increased performance

By combining the robustness and better mobility of the dye set, with a novel enzyme and optimized dNTP/ddNTP ratios for longer reads, BrilliantDye is the universal Sequencing kit that can be used for all kinds of applications:

- Sequencing of (short) PCR products with fast, rapid, or ultra-rapid run modules and High Quality Base Calling for the small fragments.

- Sequencing of (long range) PCR products with maximum read lengths with standard or long run modules.
- Sequencing of Plasmid DNA with maximum read length.
- Sensitive Heterozygote detection with optimized peak heights distribution.

Kit content

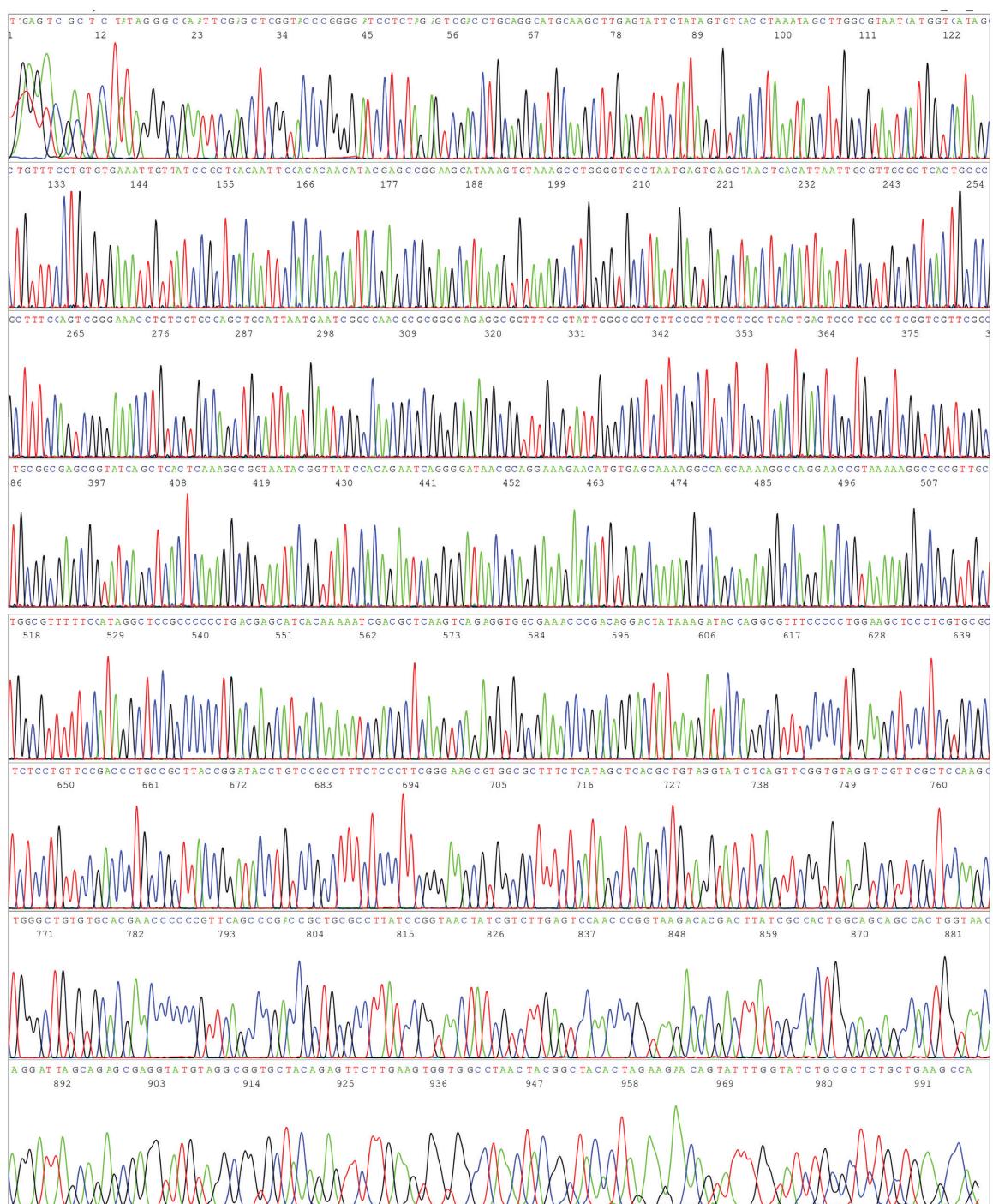
The BrilliantDye Terminator Cycle Sequencing Kit contain all required reagent components for the sequencing reaction in a ready reaction, pre-mixed format:

- Reaction Ready seq. premix
- 5X sequencing buffer
- pGem control
- M13(-21) primer

Dye set

The kit is optimized to run with Filterset E (Dye Set E for Big DyeTerminator v1.1). Refer to your instrument manual how to calibrate the system with this Dye Set. Optionally, Filterset Z can be used, but is slightly sub optimal.

Sequencing results with the BrilliantDye™ Terminator Cycle Sequencing Kit



This figure shows the early start and long read lengths with BrilliantDye™ Terminator on a 3130 Genetic Analyzer. pGEM control DNA was used in combination with M13(-21) primers. Sequences were run under filter set E.

>Visit www.nimagen.com/brilliantdye and download the protocol<

p/n	Reactions	RR seq. Premix	5X Seq. Buffer	pGEM control	M13(-21) primer
BRD1-010	10	1 x 80µL	1 x 0.25mL		
BRD1-024	24	1 x 192µL	1 x 0.65mL	1 x 10µL	1 x 10µL
BRD1-100	100	1 x 800µL	1 x 2.0mL	1 x 10µL	1 x 10µL
BRD1-1000	1000	10 x 800µL	8 x 2.0mL	1 x 50µL	1 x 50µL
BRD1-5000	5000	50 x 800µL	40 x 2.0mL	5 x 50µL	5 x 50µL