QuantumDye™ Terminator dGTP v3.1 Cycle Sequencing Kit

Description

The QuantumDye™ Terminator dGTP v3.1 Cycle Sequencing Kit is based on the Sanger Dideoxynucleotide Chain Termination method and optimized for sequencing through GT- and G-rich templates. The dGTP kit enables you to extend through those difficult-to-sequence regions with confidence, avoiding early signal loss in these samples.

The kit is provided with a 2.5x concentrated ready-reaction premix, plus sequencing dilution buffer and controls (plasmid DNA template and sequencing primer) 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.

Kit Contents

QSDG3-024 QuantumDye Terminator dGTP Cycle Sequencing Kit v3.1, 24 reactions:

	Component	Concentration	Quantity
•	QuantumDye dGTP Cycle Sequencing Mix	2.5x	1 x 192 µl
•	QuantumDye Sequencing Buffer	5x	1 x 1.0 mL
•	pGEM® Control DNA	100 ng/µl	1 x 10 µl
•	M13(-21) Control Primer	5 µM	1 x 10 µl

Protocol

The QuantumDye Terminator dGTP v3.1 Kit was developed as a direct, drop-in substitute for dGTP BigDye® Terminator v3.0, with no changes in protocol, dilution, workflow, calibration or settings using DyeSet Z. Simply dilute the QuantumDye Terminator dGTP Cycle Sequencing Mix and substitute it for dGTP BigDye Terminator as described in your SOP. By using the same chemistries as the standard QuantumDye Terminator Kits and replacing dITP with dGTP, the QuantimDye dGTP Terminator Kit provides proven performance, optimized for GT-rich, G-rich and other difficult-to-sequence templates.

For research use only. Not for use in diagnostic procedures.
Made in USA

P/N 198892; RevA