

*Reagents that move your Sanger
research in the right direction*



QuantumSeq™ Sanger Sequencing Reagents

Cost-effective, direct substitutes for BigDye® Terminator products



No change in protocol, Dye Set, calibration, or settings.

QuantumDye™ 3.1 Cycle Sequencing Kits – same high performance, but at a greater value

- Identical Performance to BigDye Terminator v3.1
- Flexible Packaging Formats
- Compatible with all ABI Genetic Analyzers

Above and beyond is where we begin.


QuantumSeq

 **SUREFIRE**
Bio

QuantumDye kits are:

- Direct, drop-in substitute for BigDye Terminator v3.1
- Optimized for *de novo* sequencing and resequencing applications
- Compatible with all ABI Genetic Analyzers
 - No changes to workflow, protocols, calibration or settings
- Formulated as a 2.5x concentrated cycle sequencing mix
- Developed for use with Dye Set Z

QuantumDye kits generate:

- Uniform peak heights with extremely low background
- Long sequence reads with high confidence scores
- Results that are identical to BigDye Terminator v3.1

QuantumDye Kit Contents:

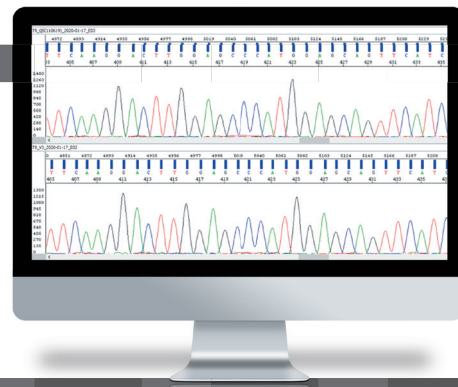
The QuantumDye kits contain all necessary components to perform cycle sequencing in a ready-to-use format.

- 2.5x cycle sequencing mix
- 5x Sequencing Buffer
- pGEM control plasmid DNA
- M13 reverse sequencing primer

QuantumDye cycle sequencing mix is also available separately in a 2,500 reaction (20 mL) bulk reagent format for high throughput sequencing labs that do not wish to purchase the control DNA and sequencing primer. The 5x Sequencing Buffer is also available separately in a 28 mL format.

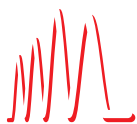
QuantumDye Performance

Electropherogram of the same DNA template sequenced with the same volume of QuantumDye 3.1 (upper) and BigDye® Terminator v3.1 (lower) under identical conditions. The data shown is 403 through 451 bases from the primer from a total sequence read of greater than 800 bases. Peak heights/intensities and confidence scores are identical.



Ordering Information

Part #	Description	Reactions	Cycle Sequencing Mix	5x Dilution Buffer	pGEM Control DNA	M13 Reverse Primer
QSD3-24	QuantumDye 3.1 Kit	24	1 x 192 µL	1 x 650 µL	1 x 10 µL	1 x 10 µL
QSD3-100	QuantumDye 3.1 Kit	100	1 x 800 µL	1 x 2.0 mL	1 x 10 µL	1 x 10 µL
QSD3-1000	QuantumDye 3.1 Kit	1,000	1 x 8.0 mL	1 x 28 mL	1 x 50 µL	1 x 50 µL
QSD3-5000	QuantumDye 3.1 Kit	5,000	2 x 20 mL	2 x 28 mL	1 x 50 µL	1 x 50 µL
QSD3-25000	QuantumDye 3.1 Kit	25,000	10 x 20 mL	10 x 28 mL	5 x 50 µL	5 x 50 µL
QSDM3-2500	QuantumDye Sequencing Mix	2,500	1 x 20 mL			
QSD5-28	QuantumDye 5x Sequencing Buffer			1 x 28 mL		



Above and beyond is where we begin. QuantumSeq

QuantumSeq Sanger Sequencing Reagents are available exclusively from SureFire Biosciences.



Visit surefirebio.com for an evaluation sample.