Streamlined single-tube solutions for high quality DNA library preparation

Yi Jin, Marissa Bolduc, David Bays, Shuhong Li, Eleanor Kolosovski, Brian Komorous, Hongbo Liu and David Schuster
Quantabio, 100 Cummings Center Suite 407J, Beverly, MA 01915

Quantabio’s NGS Reagent Portfolio
sparQ DNA Frag & Library Prep Kit
• Streamlined workflow employs a unique enzyme mix to enable high quality DNA library preparation with tunable and reproducible DNA fragmentation profiles
sparQ DNA Library Prep Kit
• Simplified 2-step protocol in a single tube speeds up DNA library prep to 2-5 hours and minimizes sample loss
sparQ HiFi PCR Master Mix
• A high-efficiency, high-fidelity and low bias PCR master mix for NGS workflows requiring DNA library amplification prior to sequencing
sparQ PureMag Beads
• A simple and reliable nucleic acid purification system for reaction cleanup and size selection in NGS workflows

Library Yield Analysis

Library Yield Analysis

Superior HiFi Amplification Efficiency & Uniform Coverage

F. nucleatum (27% GC) & E. coli (55% GC) vs. B. pertussis (57% GC)

Library amplication with sparQ HiFi PCR Master Mix results in higher library yield and produces uniform coverage across a wider range of GC content.

Consistent & Adjustable Size Selection

sparQ DNA Library Prep Workflow

sparQ DNA Library Prep Workflow

SparQ DNA Frag & Library Prep Kit is designed to produce DNA fragments which are tunable to specific size with superior DNA library preparation efficiency.