

Your Choice for NGS Kits



Watchmaker DNA Library Prep Kit with Fragmentation

Highly efficient conversion of DNA of variable quality into Illumina®-compatible sequencing-ready libraries for highly sensitive clinical and translational applications



Equinox Library Amplification Kit

Ultimate library amplification kit specifically address the stringent demands of applications

KEY BENEFITS: Watchmaker DNA Library Prep Kit with Fragmentation

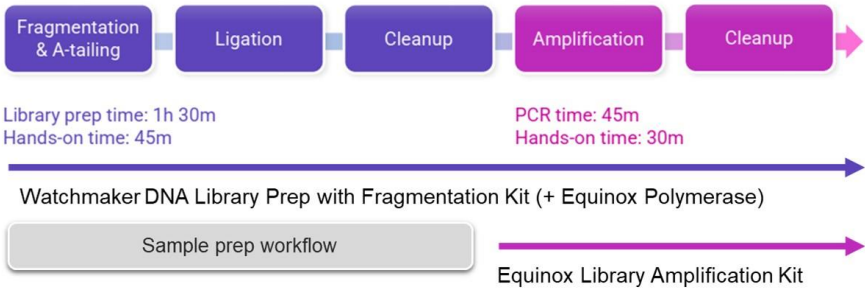
- **Very high efficiency**
 - Compatible with ultra-low and low input DNA (1 ng – 500 ng) and FFPE samples
 - Highly tunable and consistent fragmentation for application-specific needs
- **Low bias an ultra-high-fidelity amplification**
 - **Equinox Polymerase** (included in the kit) reduces misincorporation events by up to 40% to improve overall assay sensitivity
 - Support the coverage for >75% of all read families (including high GC regions) within 3X of the mean family depth
- **High sensitivity and accuracy with uniform sequence coverage**
 - Improves assay accuracy and sensitivity for variant and rare mutation detection
 - Get up to a 90% reduction in sequence artifacts (e.g., false chimeric reads and false SNVs)
 - Uniform sequence coverage even for complex genomes with extreme (15 – 85%) GC content

APPLICATIONS

- Somatic mutation calling and other low-frequency variant detection NGS assays, including those utilizing challenging samples such as FFPE and cfDNA
- Human and microbial whole-genome sequencing (WGS)
- Whole exome sequencing (WES)
- Single-cell analysis
- Metagenomic analysis
- Bulk RNA sequencing (using cDNA as input)
- Viral genome sequencing
- Inherited disease sequencing
- Amplicon sequencing
- ChIP-seq, ATAC-seq, and associated epigenetic applications †
- Suitable for Illumina and non-Illumina sample preparation workflows

Note:

† Workflow can incorporate Equinox Library Amplification Kit



Incorporate the stand-alone **Equinox Library Amplification Kit** for template amplification and still experience the robust performance of Watchmaker solutions

MORE BENEFITS: Equinox Library Amplification Kit (with Equinox Polymerase)

- **Ultra-high-fidelity** library amplification from a **wide range of template amounts** (0.1 pg – 500 ng) up to 1 kb in length
- **Effective hot start formulation** inhibits both polymerase and 3' → 5' exonuclease activities, for low-input applications and automated workflows
- Compatibility with paramagnetic beads ensures robust performance in **hybridization capture workflows**