

NGS Library Preparation:

Fast, Easy, Simple, Affordable, with Top Quality

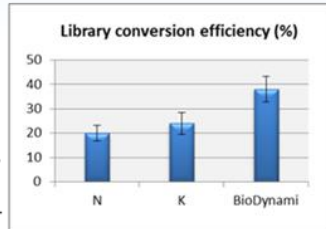
Reliable **Higher** quality



Library conversion efficiency: the percentage of input DNA fragments converted to adaptor-ligated molecules

Library conversion efficiency is the metric that determines library diversity and PCR duplication rates, especially for low input DNA.

High library conversion efficiency is the key point to make better libraries that have higher diversity and lower duplication rates.



A general NGS problem: difficult regions exist

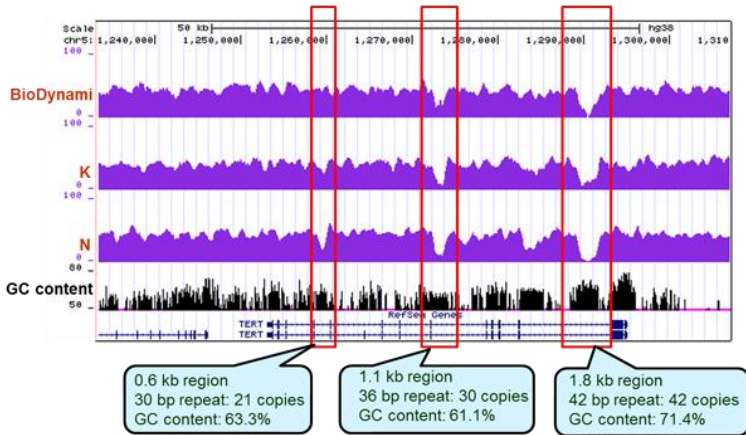
- Some DNA regions are very difficult to be covered evenly
- Consequence: very low coverage rate or gap in these regions

Reasons

- High GC contents
- Secondary structures: mainly repeat sequences
- Worst cases: high GC contents + repeat sequences

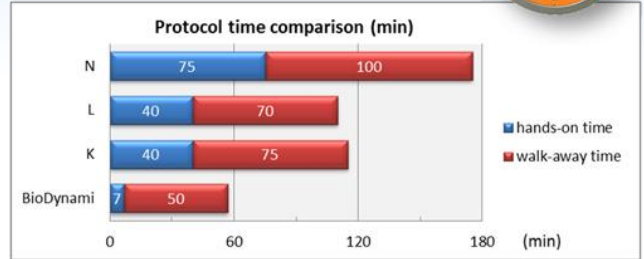
Comparison of a difficult region for NGS: human TERT gene

- Three regions in the gene have both high GC contents and repeat sequences
- BioDynamami has better coverage**



NGS comparison of a difficult region: human TERT gene

Fast within **1** hour, library will be ready



Easy Only **7** minutes of hands-on time



Simple **1** tube reaction, from beginning to end



Kit work flow



Affordable **Low** price



This is BioDynamami's NGS technology.

BioDynamami NGS DNA Library Prep Kit

- sheared DNA as input

BioDynamami NGS Genome-to-Library Prep Kit

- intact genomic DNA as input

BioDynamami NGS nano DNA Library Prep Kit

- Low input DNA: starts from 1 ng to 50 ng

BioDynamami cfDNA Library Prep Kit

- cell free DNA as input: 1-20 ng

BioDynamami NGS FFPE DNA Library Prep Kit

- FFPE DNA as input: 10-50 ng

BioDynamami NGS ChIP-Seq Library Prep Kit

- ChIP DNA as input: 5-30 ng

More details at www.BioDynamami.com/ngs
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