

# ACCELERATE YOUR HI-C STUDIES

## with the Dovetail® LinkPrep™ Assay



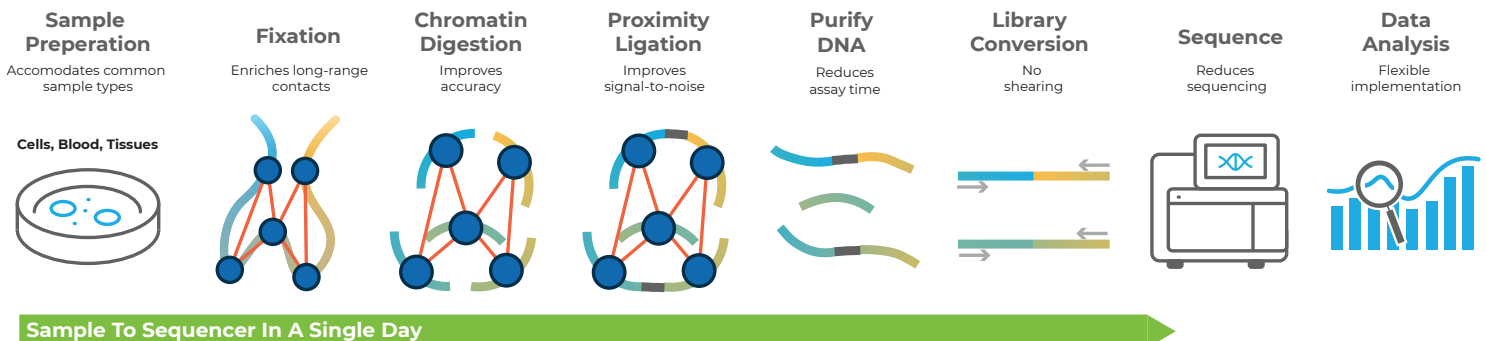
**FASTEST HI-C  
WORKFLOW**

**REDUCED  
SEQUENCING**

**IMPROVED  
ACCURACY**

### ACCELERATE YOUR HI-C STUDIES

Dovetail® LinkPrep™ Assay addresses one of the most challenging hurdles in Hi-C data generation – assay length and difficulty. The Dovetail® LinkPrep™ workflow enables users to go from sample to sequence-ready library in less than a day.

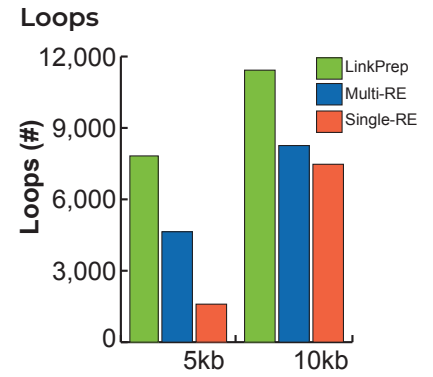
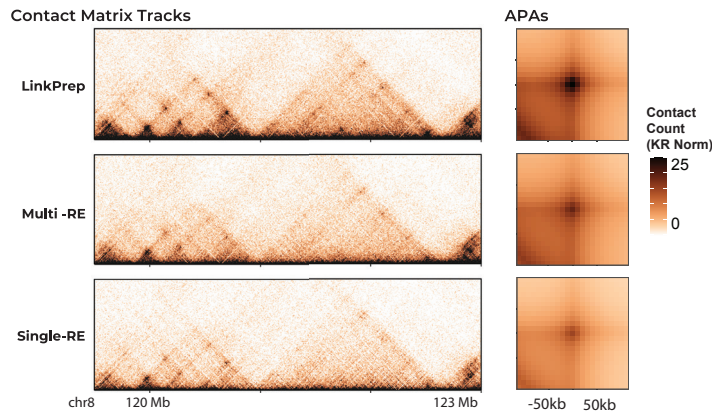


### SEE MORE - SEQUENCE LESS

Detect more TADs and loops compared to traditional Hi-C. Moreover, detected features have higher read support resulting in high-confidence feature calling even at reduced sequencing depths. As a result, fewer libraries and less sequencing are required simplifying experimental design and execution.

	LinkPrep	Hi-C
Required Input (cells)	1 Million	2-5 Million
Total Assay Time	1 Day	2-3 Days
Required Proximity Ligation Reactions	1	3 - 4
Required # Libraries	3	6 - 8
Required Read Pairs For Loop Detection	800 Million	1.2 - 1.6 Billion
TADs Called	5,179	2,386
Loops Called	19,253	9,071 - 12,899

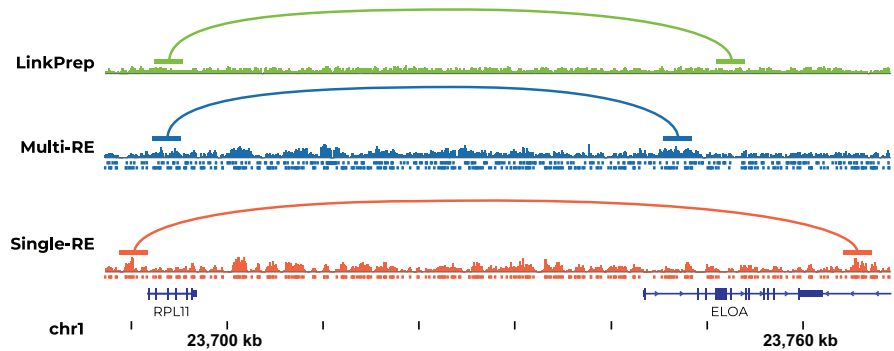
# GENERATE HIGH QUALITY CONTACT MATRICES AND IMPROVE FEATURE DETECTION



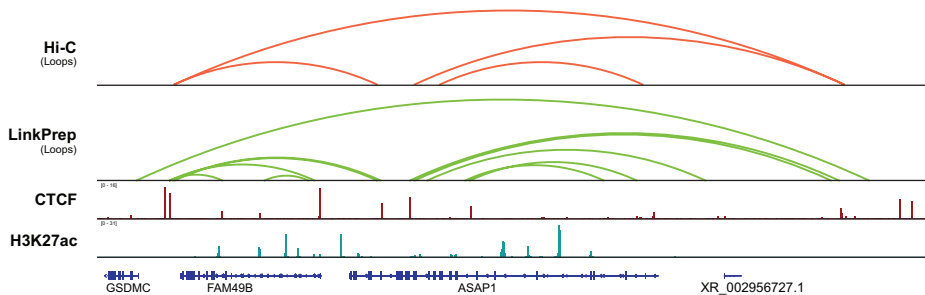
## UNBIASED GENOMIC COVERAGE EQUALS IMPROVED ACCURACY

Our uniform sequence coverage produces the most accurate chromatin interaction map possible. Where the non-uniform restriction enzyme site distribution associated with Hi-C methods often skews signals, you can be confident in the position of interactions detected by the Dovetail LinkPrep Assay.

### Uneven Sequence Coverage Shifts Loop Position



## BUILD MORE COMPLETE REGULATORY NETWORKS



The Dovetail LinkPrep Assay provides the most comprehensive view in regulatory dynamics. Integrate multi-omic data (ATAC-seq, ChiP-seq, RNA-seq, etc.) through the linkages generated by 3D genome folding.

- Quality Control
- Actionable Data
- Integratable Outputs

