

Dovetail

Redefining the Hi-C toolbox

New high-resolution approaches for genome-wide applications and protein-directed chromatin architecture

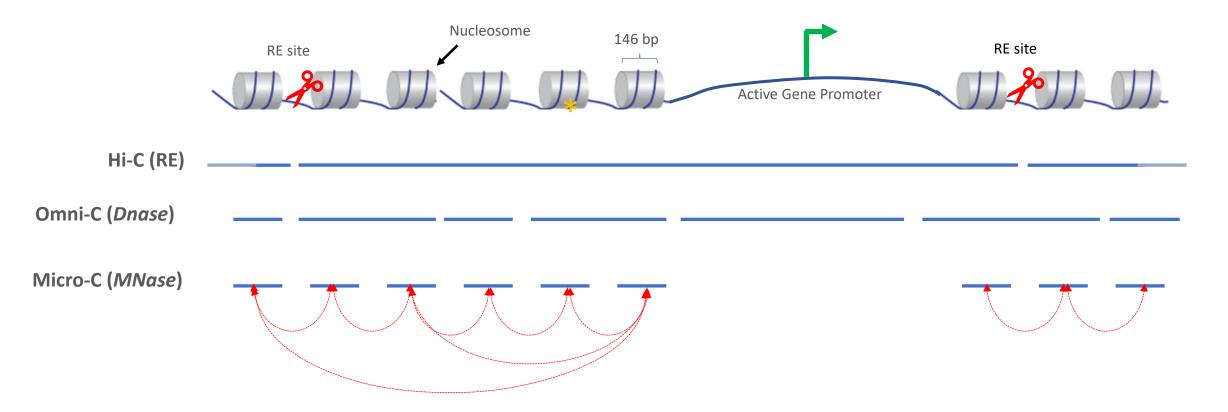
Cory Padilla, Ph.D. Scientific Affairs, Dovetail Genomics

Dovetail[™] Micro-C: An MNase-Based Proximity Ligation Kit



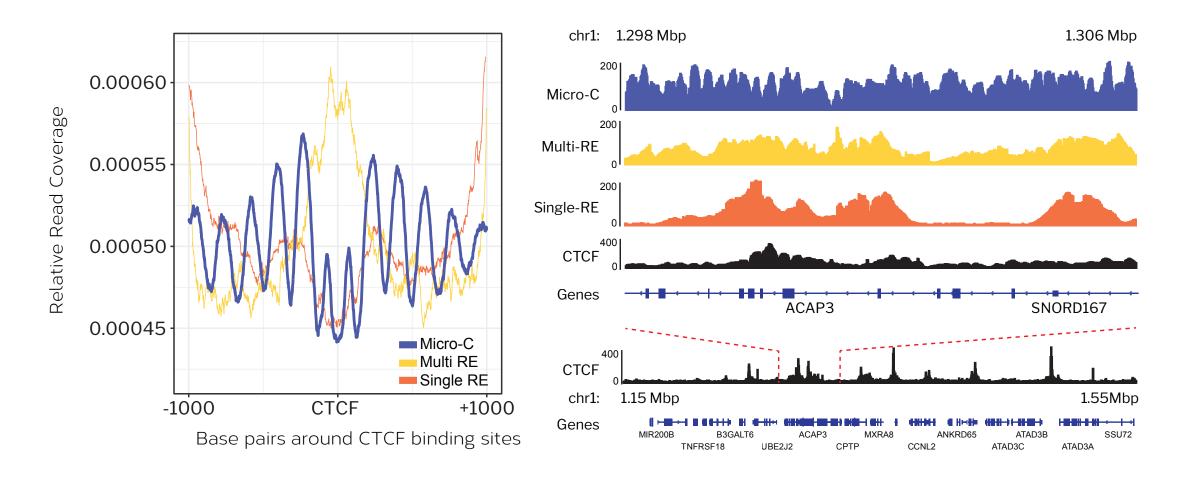
Enhanced resolution of chromatin contacts down to mono-nucleosome levels

- Highest achievable contact matrix resolution (146 bp)
- Unparalleled capture of long-range information (> 90% of *cis* reads are > 1 kb)



Capture nucleosome position during proximity-ligation

An EdenRoc Sciences Compar



Dovetail[™] Micro-C: Nucleosome Positioning Generates The Highest Resolution View of Conformation

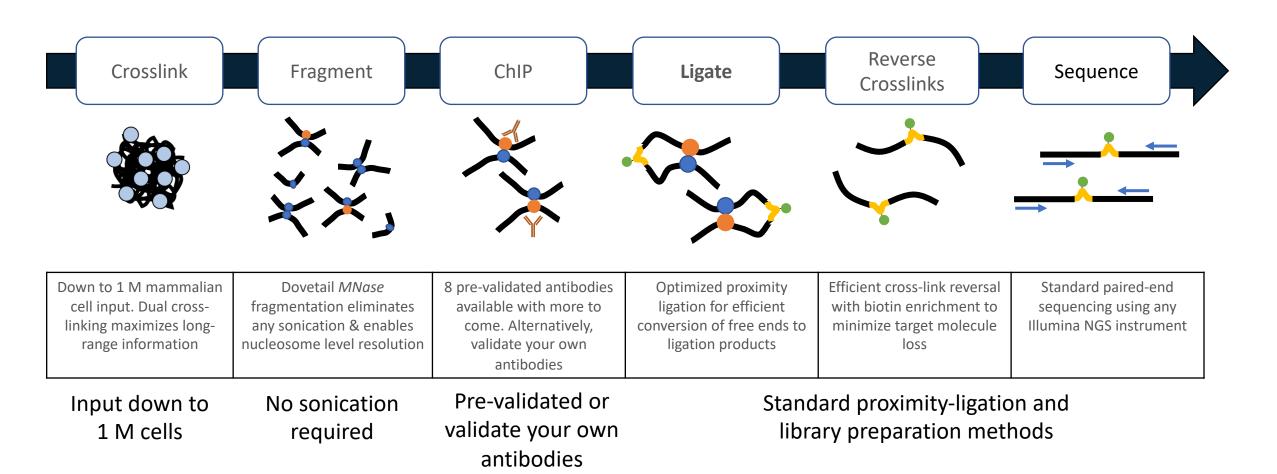


Dovetail[™] Micro-C Multi-RE Hi-C 1000 1000 Distance of CTCF sites (bp) 500 -Distance of CTCF sites (bp) 500 0 -0 -500 -500 -1000 --1000 -500 -1000 -500 500 1000 -1000 -500 1000 0 0 Distance of CTCF sites (bp) Distance of CTCF sites (bp)

4

Dovetail[™] HiChIP Workflow Combines Hi-C and ChIP-seq





Capture ChIP-seq Data & Hi-C Long-range Information In A Single Library



