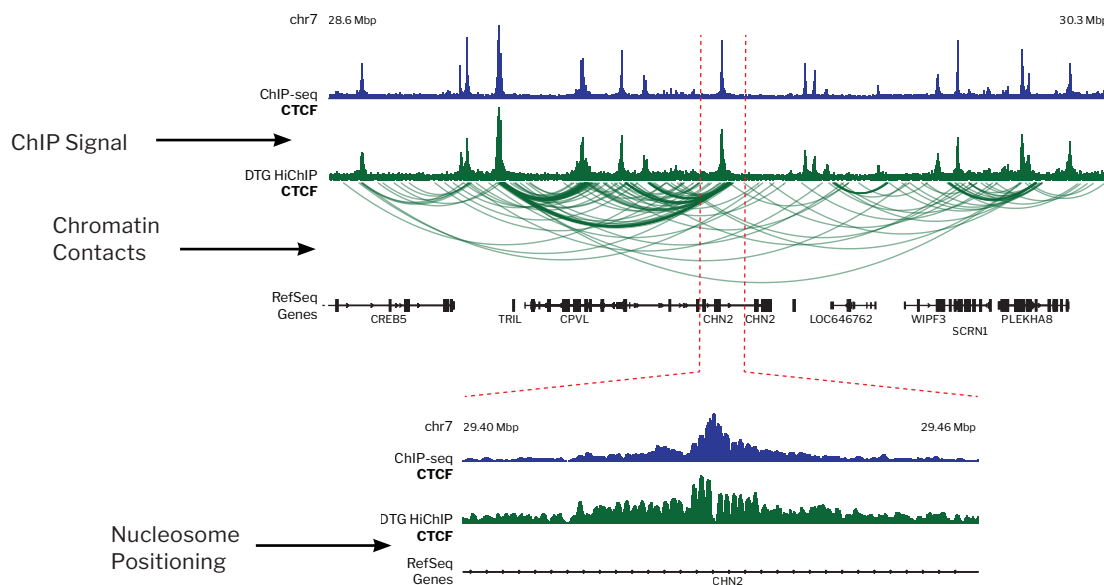


# Probing Protein Directed Chromatin Architecture using the Dovetail™ HiChIP Kit.

- Capture ChIP-seq and Hi-C data together in a single library
- Choose from 12 ready-to-use antibodies
- Map protein-mediated chromatin interactions at nucleosome resolution
- Increase your signal-to-noise ratio while reducing your sequencing costs

## Integrate ChIP-seq and Hi-C data to view protein-directed topology

Dovetail™ HiChIP MNase combines the power of ChIP-seq with 3-D mapping enabled by Hi-C. For proteins of interest, capture primary DNA binding sites while concomitantly capturing their long-range interactions. Identify transcription factor binding and enhancer/promoter interactions in a single experiment.

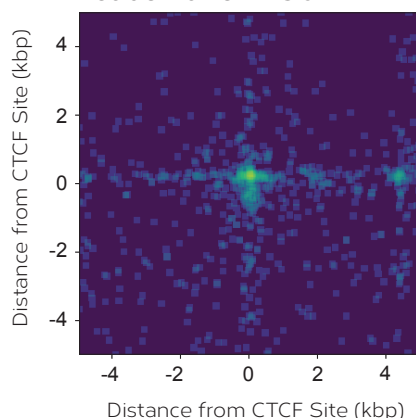


Comparison of CTCF ChIP-seq (blue) and HiChIP (green) showing high concordance in 1-D peaks while capturing the interaction frequency and nucleosome position.

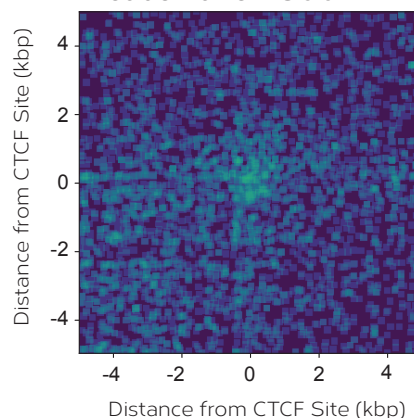
## Increase the signal-to-noise and reduce sequencing cost to capture topological features

Dovetail HiChIP efficiently captures topology features with a fraction of the sequencing depth required by traditional Hi-C approaches.

**A)** Dovetail HiChIP  
S:N = 2.5  
Reads Pairs = 150 M



**B)** Multi-RE Hi-C  
S:N = 0.9  
Reads Pairs = 800 M



Chromatin contacts averaged around CTCF sites in A) HiChIP and B) Multi-RE Hi-C.

Reduce sample burden to capture both topology and ChIP-seq data in a single library.



Discover protein-specific topology features in HiChIP-derived contact matrices.

