

# Methylation Specific Bisulfite-Seq (MSBS)

## Enrichment of methylated CpG sites

### Methylation Specific Bisulfite-Seq Library Prep Kit

#### Advantages

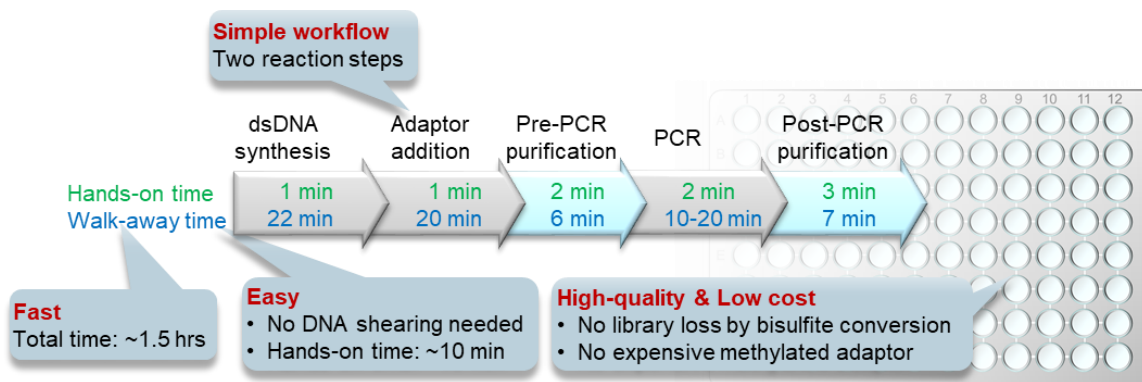
- Enrichment of methylated CpG
- Single base resolution
- Low cost for sequencing

#### Simple Workflow

- Two reaction steps for library preparation
- Simplified beads purification

#### Save Your Time

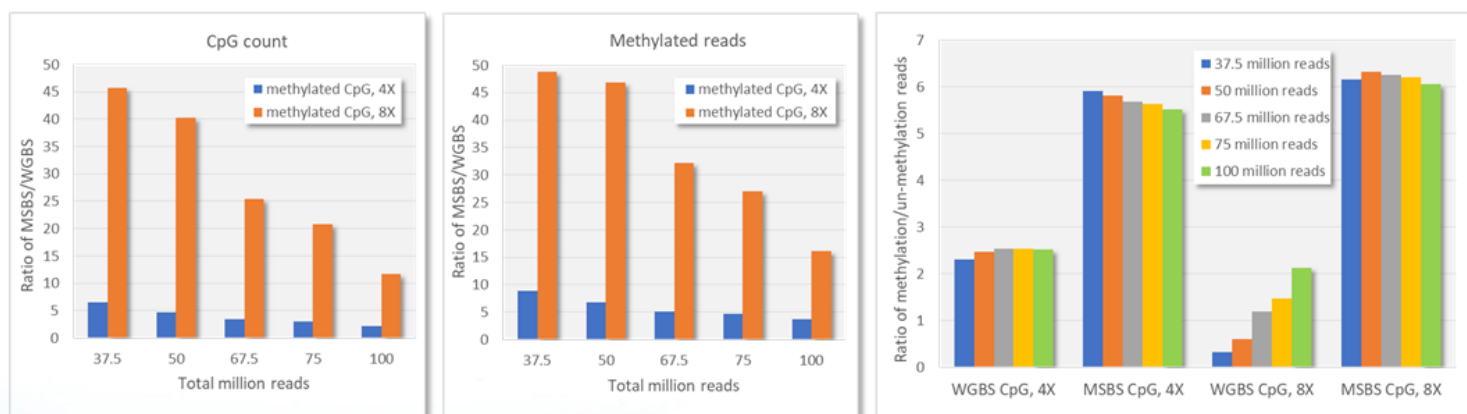
- Total time: 1.5 hours
- Hands-on time: ~10 minutes



### Comparison of NGS technologies for Epigenetics

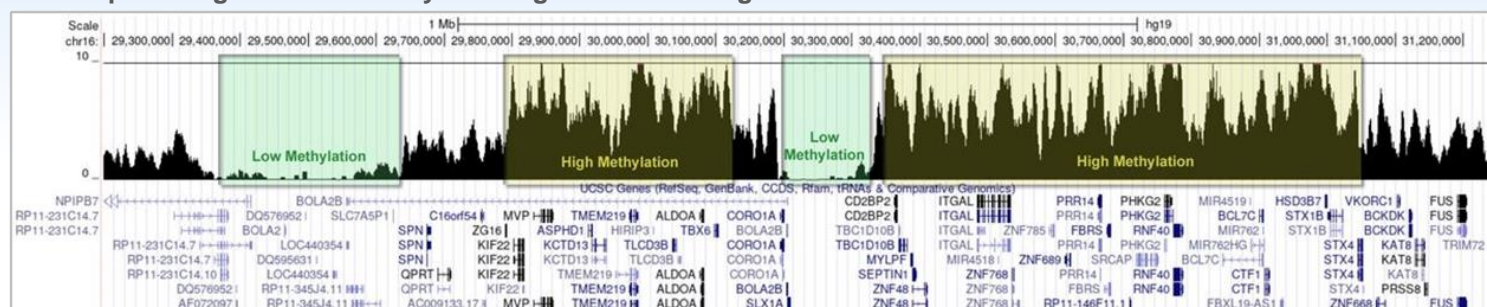
	MSBS (BioDynamix)	WGBS	RRBS	MeDIP-Seq
Technology	methylation specific bisulfite sequencing	whole genome bisulfite sequencing	reduced representation bisulfite sequencing	methylated DNA immunoprecipitation sequencing
Feature	enrichment of methylated CpG sites	whole genome is sequenced including non-methylated regions	DNA fragments from restriction enzyme digestion is used	antibody based methylated cytosine capture
Bisulfite sequencing	yes	yes	yes	no
Single base resolution	yes	yes	yes	no (150-200 bases)
Low cost	yes	no	yes	yes
Whole methylated CpG coverage	yes	yes	no (only 10%)	yes

### Enrichment of methylated CpG sites with MSBS technology

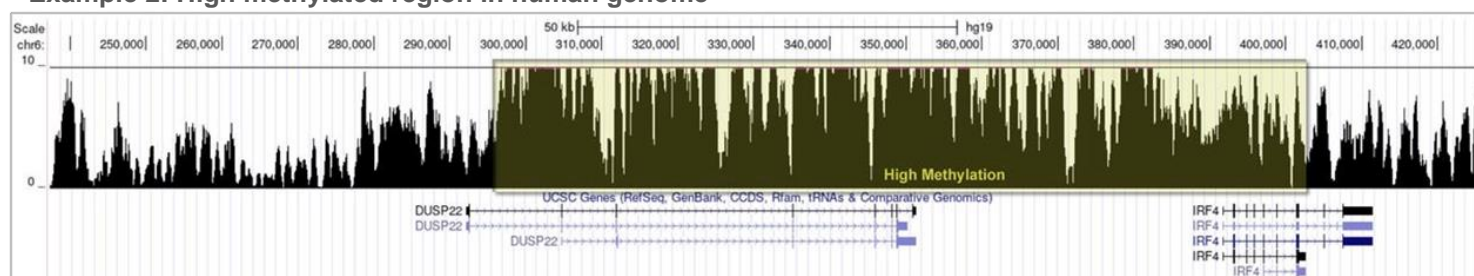


## Methylation Specific Bisulfite-Seq (MSBS)

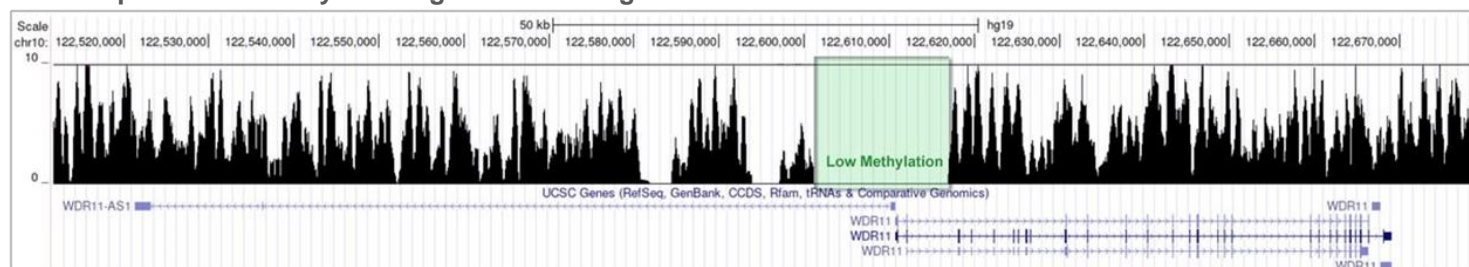
### Example 1: High and low methylated regions in human genome



### Example 2: High methylated region in human genome



### Example 3: Low methylated region in human genome



## ■ Kit List

Product Name	Cat.#
Methylation Specific Bisulfite-Seq Library Prep Kit (illumina platform, with non-index primers & PCR reagent)	30101
Methylation Specific Bisulfite-Seq Library Prep Kit (illumina platform, with index primers & PCR reagent)	30102
Methylation Specific Bisulfite-Seq Library Prep Kit (illumina platform, with unique dual index primers & PCR reagent)	30103