Supplementary Figure 1

![Graph showing enrichment normalized intensity against local CpG density bin. The x-axis represents local CpG density bin, ranging from 0 to 40, and the y-axis represents enrichment normalized intensity ranging from 0 to 1. Three lines are shown: MeDIP in black, MBD2−SF in red, and MBD2−Elu5 in green.]
Supplementary Figure 5

CG-6
- WGA-Amplified
- Unamplified

CG-7
- WGA-Amplified
- Unamplified

CG-8
- WGA-Amplified
- Unamplified

CG-9
- WGA-Amplified
- Unamplified

CG-10
- WGA-Amplified
- Unamplified

CG-11
- WGA-Amplified
- Unamplified

CG-12
- WGA-Amplified
- Unamplified

CG-13
- WGA-Amplified
- Unamplified

CG-14
- WGA-Amplified
- Unamplified

CG-15
- WGA-Amplified
- Unamplified

CG-16
- WGA-Amplified
- Unamplified

CG-17
- WGA-Amplified
- Unamplified

Signal Intensity

local CpG density bin

Probe GC: Unamplified

WGA-Amplified

local CpG density bin

Signal Intensity

local CpG density bin

Probe GC: Unamplified

WGA-Amplified

local CpG density bin

Signal Intensity

local CpG density bin
Supplementary Figure 6

Replicate 1

Replicate 2

Replicate 3
Supplementary Figure 7

Local CpG density bin vs. Signal Intensity

Bias
Supplementary Figure 8

Spearman Correlation = 0.8

Difference in sqrt(read counts) [MBDCap-seq, LNCaP-PrEC]

Difference in average methylation [Sequenom, LNCaP-PrEC]
Supplementary Figure 10

- **Average probe copy number**

- **Legend:**
  - Down-Array only
  - Down-both
  - Down-Sequencing only
  - Indeterminate
  - Up-Array only
  - Up-both
  - Up-Sequencing only

Values:
- 1.05
- 1.10
- 1.15
- 1.20
- 1.25

Categories:
- Down
- Up
Supplementary Figure 11

\[ \frac{5939x^{1.55}}{0.58 + x^{1.55}} \]

Number of detected DM promoters

Amount of downsampling
**Tiling array**

**SNP array**

- Chromosome Position (chr7)
- Change in Input
  - Change in CN estimate
Chromosome Position (chr16)

Tiling array

Change in Input

SNP array

Change in CN estimate
Two scatter plots showing the change in input and CN estimate for Tiling and SNP arrays against chromosome position (chr19).