Supplementary Figure 1

A

Buffy coats from men with negative and positive biopsy of prostate

T cells isolated by magnetic beads

Buffy coats

DNA subjected to Sodium Bisulphite treatment

DNA extracted

Illumina Infinium Methylation EPIC Array (850K)

Data Analysis

Pyro-sequencing using PyroMark Q24

Illumina Amplicon Sequencing using MiSeq System

Data Analysis

Validation
**Supplementary Figure 2**

A. Density plot of raw data (769629 probes)

B. Singular Value Decomposition Analysis (SVD)

- **Pre**
  - Gleason
  - Sample_ID
  - Stage
  - PSA
  - Age
  - Total Gleason
  - Array
  - Slide

- **Post**
  - Gleason
  - Sample_ID
  - Stage
  - PSA
  - Age
  - Total Gleason
  - Array
  - Slide

Legend:
- Red: $p < 1 \times 10^{-10}$
- Orange: $p < 1 \times 10^{-9}$
- Yellow: $p < 0.01$
- Green: $p < 0.05$
- Pink: $p > 0.05$
Supplementary Figure 5
Supplementary Figure 6

A

Tumor Volume (%) vs. Gleason Score

- \( r^2 = 0.4032 \)
- \( p < 0.0001 \)

B

Tumor Volume (%) vs. Gleason Score

- \( Y = 5.874 \times 10^{-5} e^{(1.501 \times X)} \)
- \( r^2 = 0.8344 \)
Supplementary Figure 7

Illumina 850K

A

B

C

Pyroseq

**Methylation %**

**Methylation %**

**Methylation %**

Ctrl  PCa

Ctrl  LGPCa  HGPCa

Ctrl  LGPCa  HGPCa

\( r^2 = 0.239 \)

\( P < 0.01 \)