
Methyl-MaxiSeq® Service Report: Whole Genome Bisulfite Sequencing

Workflow Checklist

Sample Received	✓
Sample Quality Check	✓
Sample Prepared for Sequencing	✓
Next-Gen Sequencing	✓
Sequence Quality Check	✓
Fastq Data	✓

Materials & Methods

The samples were processed and analyzed using the Methyl-MaxiSeq®: whole genome bisulfite sequencing (Zymo Research, Irvine, CA).

DNA Extraction: If DNA extraction was performed, one of two different DNA extraction kits was used depending on the sample amount. The manufacturer's instructions were followed, unless otherwise stated. The kit used in this project is marked below.

- ☐ Quick-DNA/RNA FFPE Miniprep Kit (Zymo Research, Irvine, CA)
- ☐ Quick-DNA Microprep Plus Kit (Zymo Research, Irvine, CA)
- ☒ N/A (DNA Extraction Not Performed)

Additional Notes: N/A

Methyl-MaxiSeq® Library Preparation: Methyl-MaxiSeq® libraries were prepared from 100 ng genomic DNA using the Zymo-Seq WGBS Library Kit (Cat#: D5465) according to the manufacturer's protocol. PCR was performed with Illumina Unique Dual Indices. Library quality control was performed on the Agilent 2200 TapeStation, then sequenced on an Illumina NovaSeq instrument (150 bp PE reads).

Sequence Data Alignment: Sequence reads from Methyl-MaxiSeq® libraries were identified using standard Illumina base calling software. Raw FASTQ files were adapter and quality trimmed and 15 bases were further trimmed off at the 5' end according to the Nextera recommendations using [TrimGalore 0.6.4](#). [FastQC 0.11.8](#) was used to assess the effect of trimming and overall quality distributions of the data.

Sample Information

Sample ID	Original Sample Label	Total Read Number (M)
zr3616_1	02-T1	162,780,101
zr3616_2	04-T3	168,555,919
zr3616_3	06-T1	190,890,981
zr3616_4	08-T2	199,920,896
zr3616_5	11-T4	150,419,008
zr3616_6	UK-02	197,572,800
zr3616_7	UK-04	150,811,300
zr3616_8	UK-06	163,170,949

Project Data

Raw Data

Trimmed FASTQ Files

List of Downloadable URLs:

- Links to fastq files -
https://epiquest.s3.amazonaws.com/epiquest_zr3616/yZDEfJOtQKi6iHfwuDtQa3mUJiy4vC/download_fastq.txt
- Links to md5 check sums -
https://epiquest.s3.amazonaws.com/epiquest_zr3616/yZDEfJOtQKi6iHfwuDtQa3mUJiy4vC/zr3616_MD5.txt

