

P3LC_MRE Report

methy1QA* version 0.1.6 (r040)

September 2, 2016

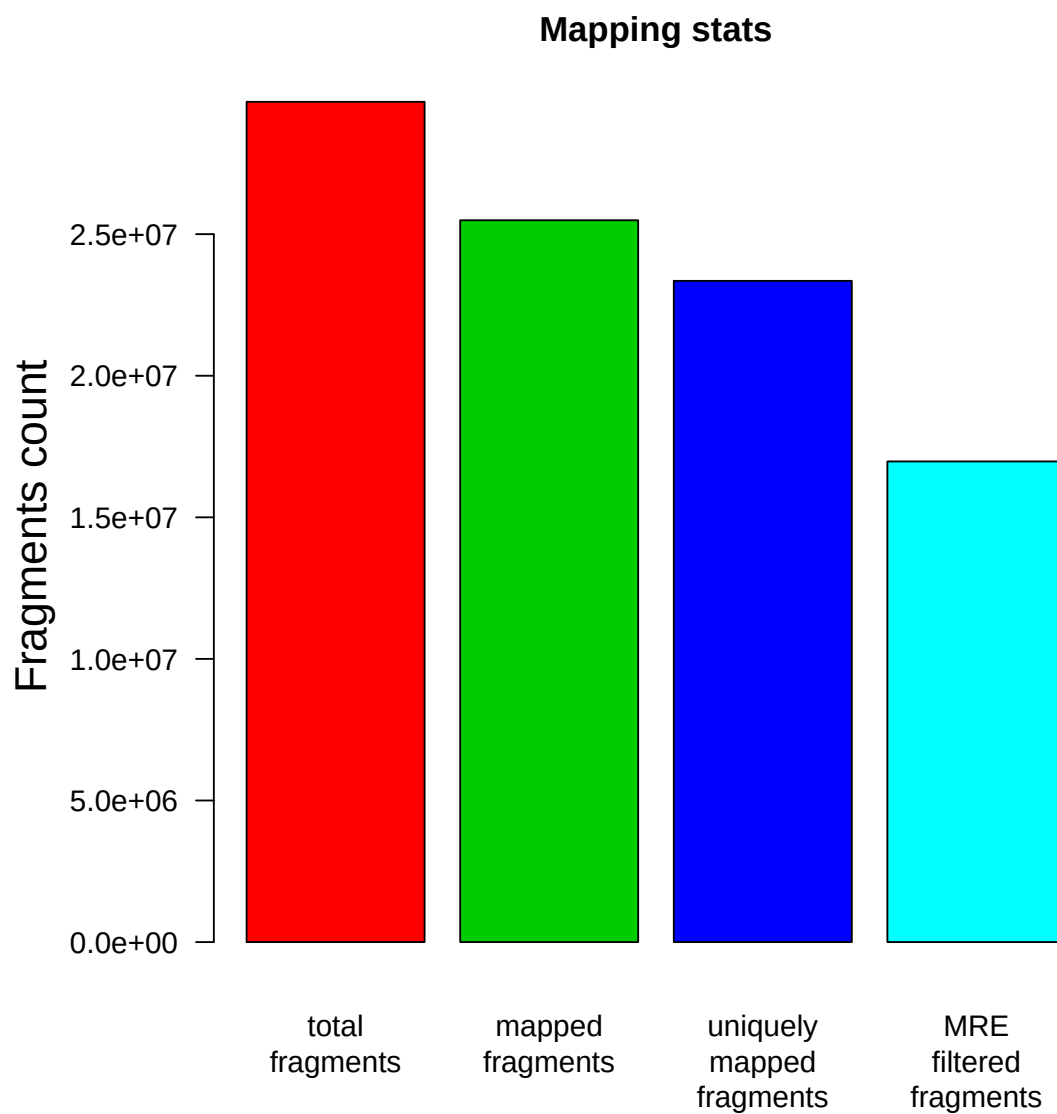
Contents

1	Mapping status	1
2	MRE fragments stats	2
2.1	Distribution by enzyme cut site	2
2.2	Distribution by fragment size	4
3	Sampled CpG sites	5
4	CpG enrichment	6

*Website: <http://methy1QA.sourceforge.net/>

1 Mapping status

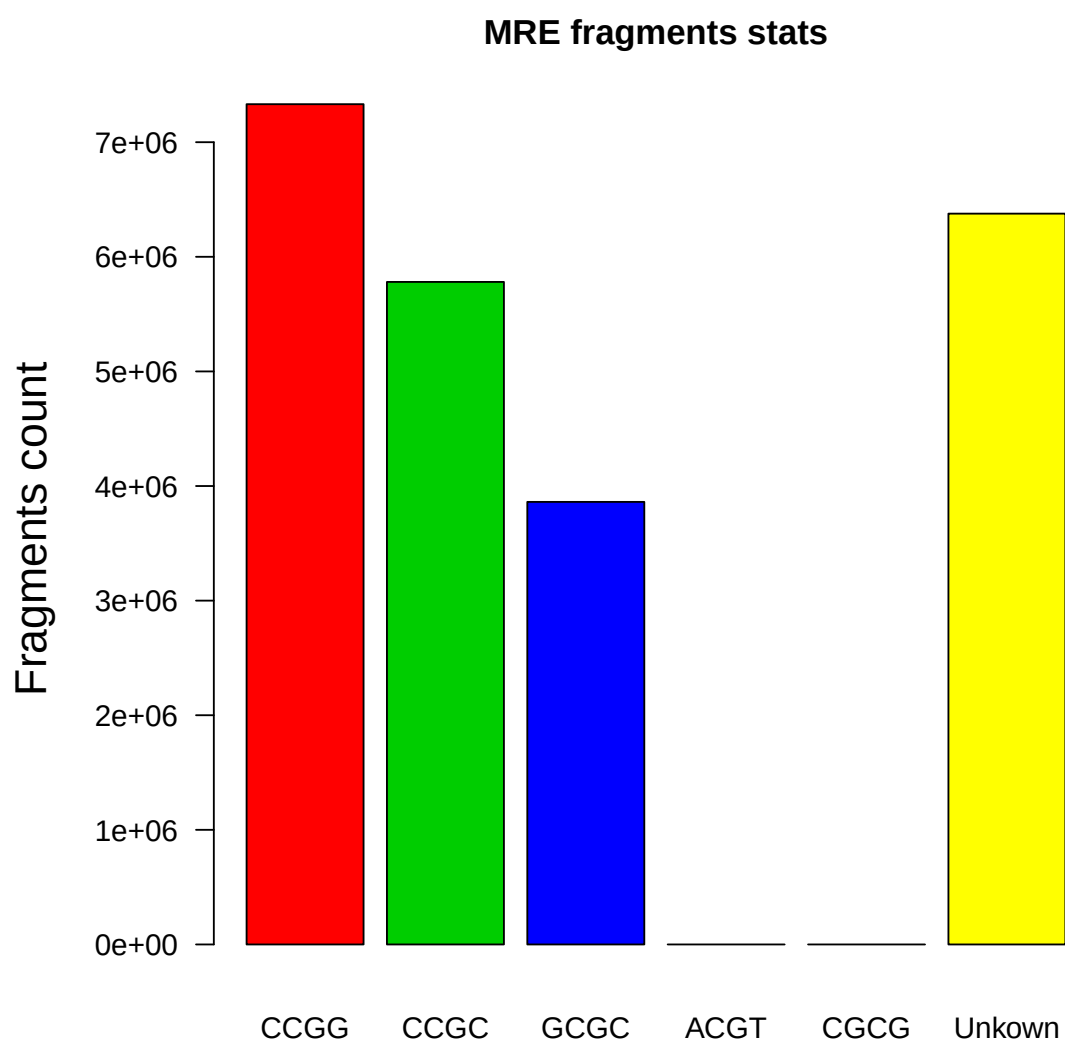
total fragments	29673678
mapped fragments	25491236
uniquely mapped fragments	23350864
MRE filtered fragments	16974137



2 MRE fragments stats

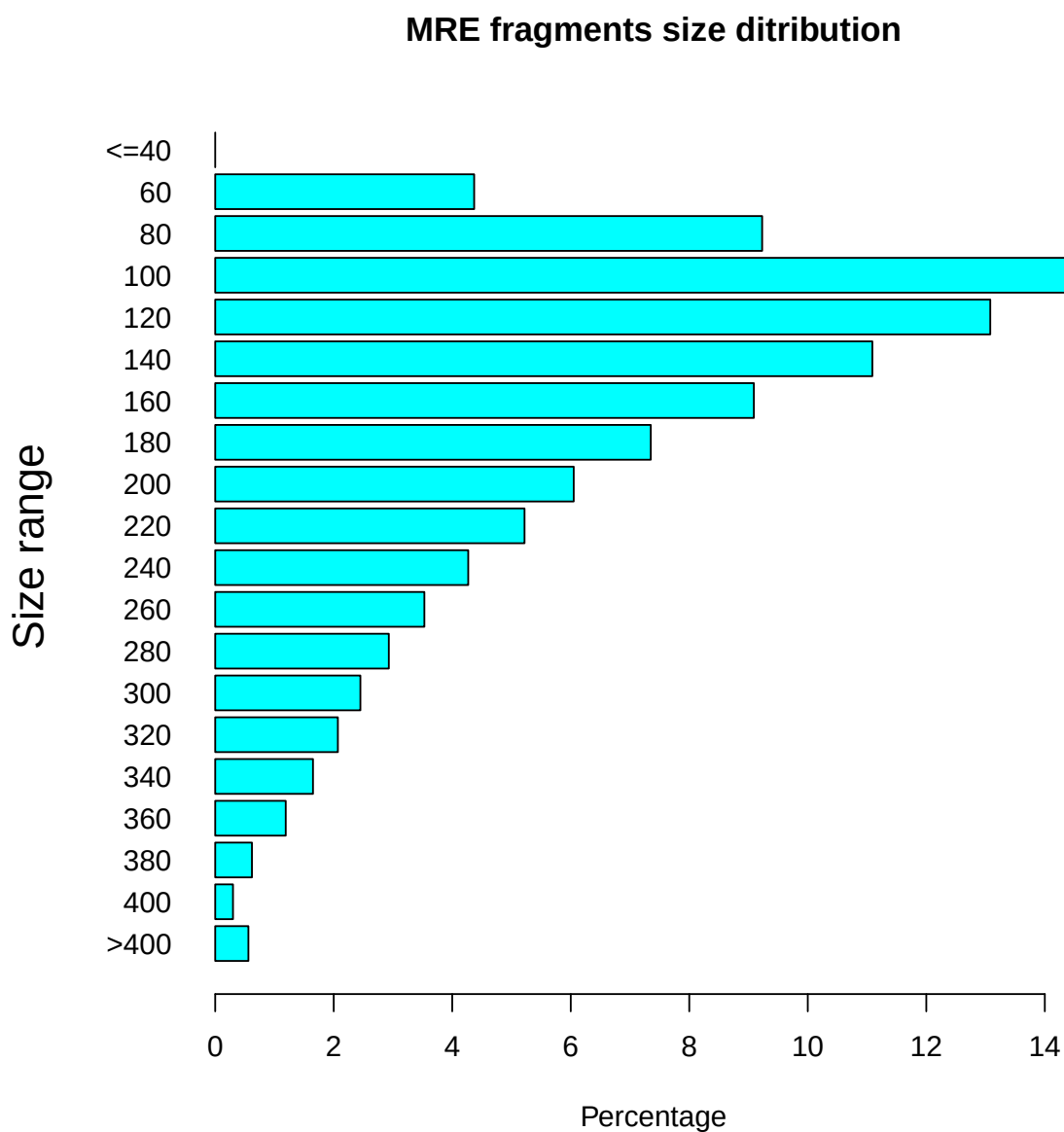
2.1 Distribution by enzyme cut site

Cut site	Count
CCGG	7331705
CCGC	5780946
GCGC	3861486
ACGT	0
CGCG	0
Unkown	6376727



2.2 Distribution by fragment size

Range	Percentage
≤ 40	0.00%
60	4.37%
80	9.23%
100	14.95%
120	13.08%
140	11.09%
160	9.09%
180	7.35%
200	6.05%
220	5.22%
240	4.27%
260	3.53%
280	2.93%
300	2.45%
320	2.07%
340	1.65%
360	1.19%
380	0.62%
400	0.30%
>400	0.56%



3 Sampled CpG sites

Total 1285428 CpG sites (4.56%) have been sampled in this dataset.

4 CpG enrichment

$$\begin{aligned}
 \text{CpG enrichment} &= \frac{\text{CpG count in fragments} / \text{total base of fragments}}{\text{CpG count in genome} / \text{total base of genome}} \\
 &= \frac{80758294 / 1167531997}{28217448 / 3095693983} \\
 &= \mathbf{7.59}
 \end{aligned}$$