

P1LC_MRE Report

methy1QA* version 0.1.6 (r040)

September 2, 2016

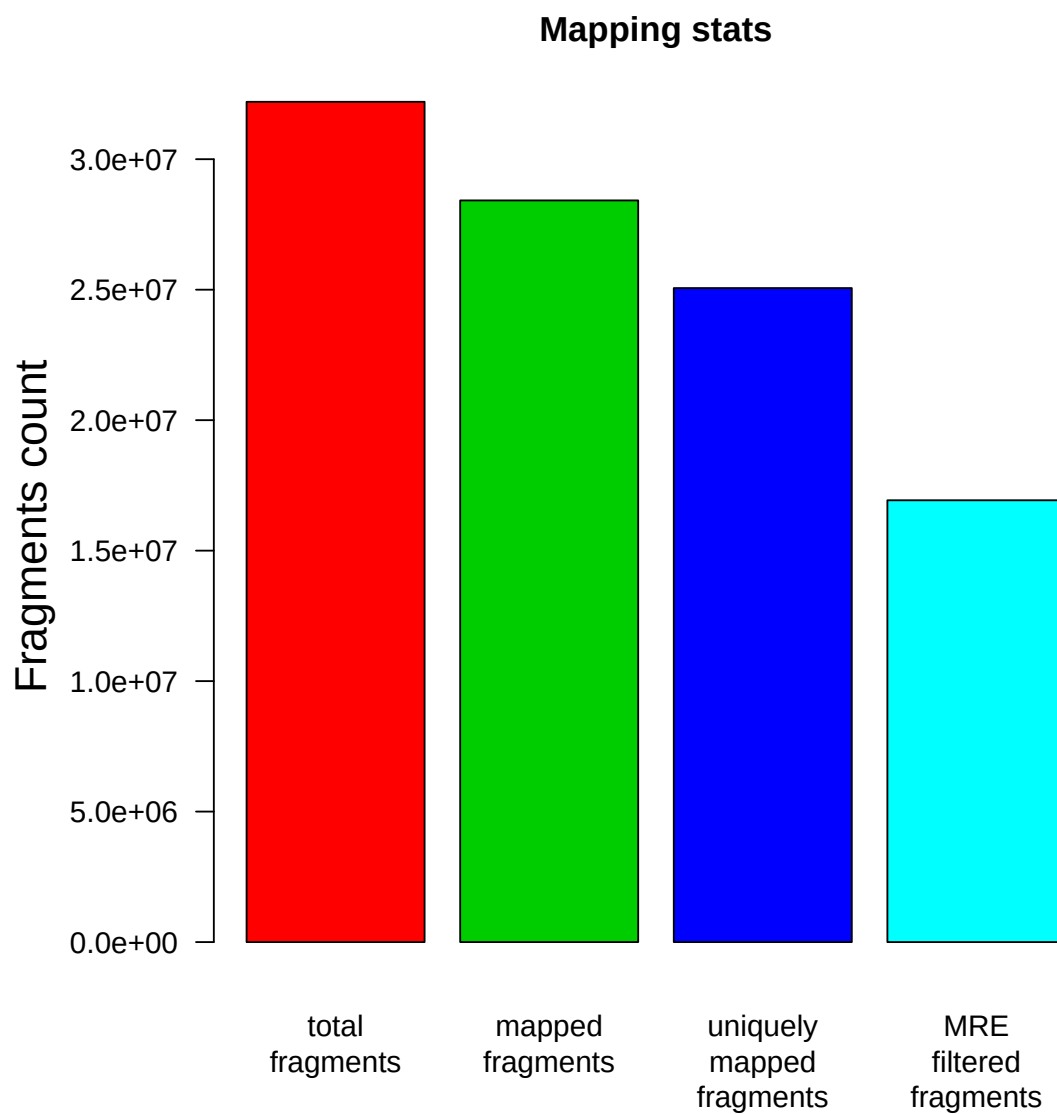
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*Website: <http://methy1QA.sourceforge.net/>

1 Mapping status

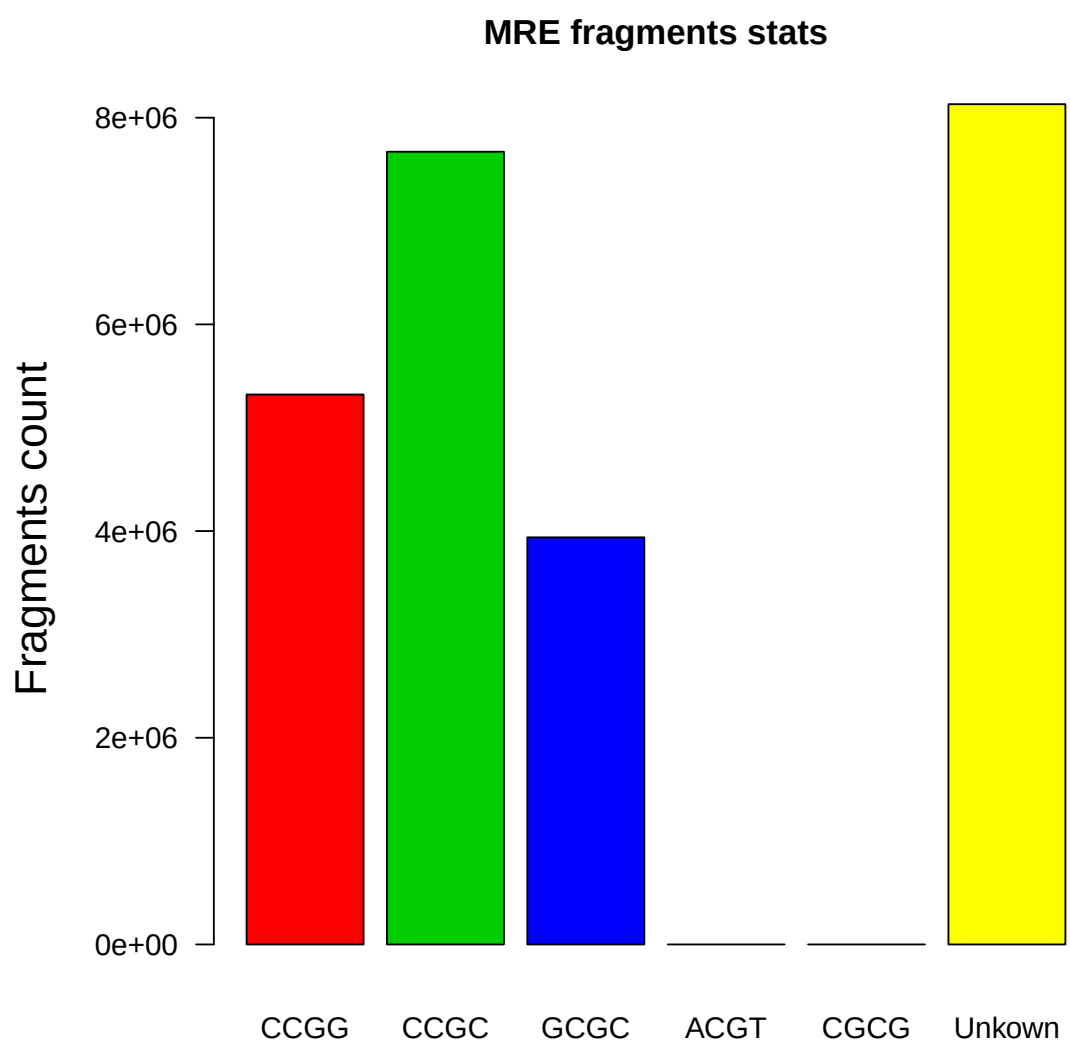
total fragments	32198907
mapped fragments	28421007
uniquely mapped fragments	25061147
MRE filtered fragments	16930635



2 MRE fragments stats

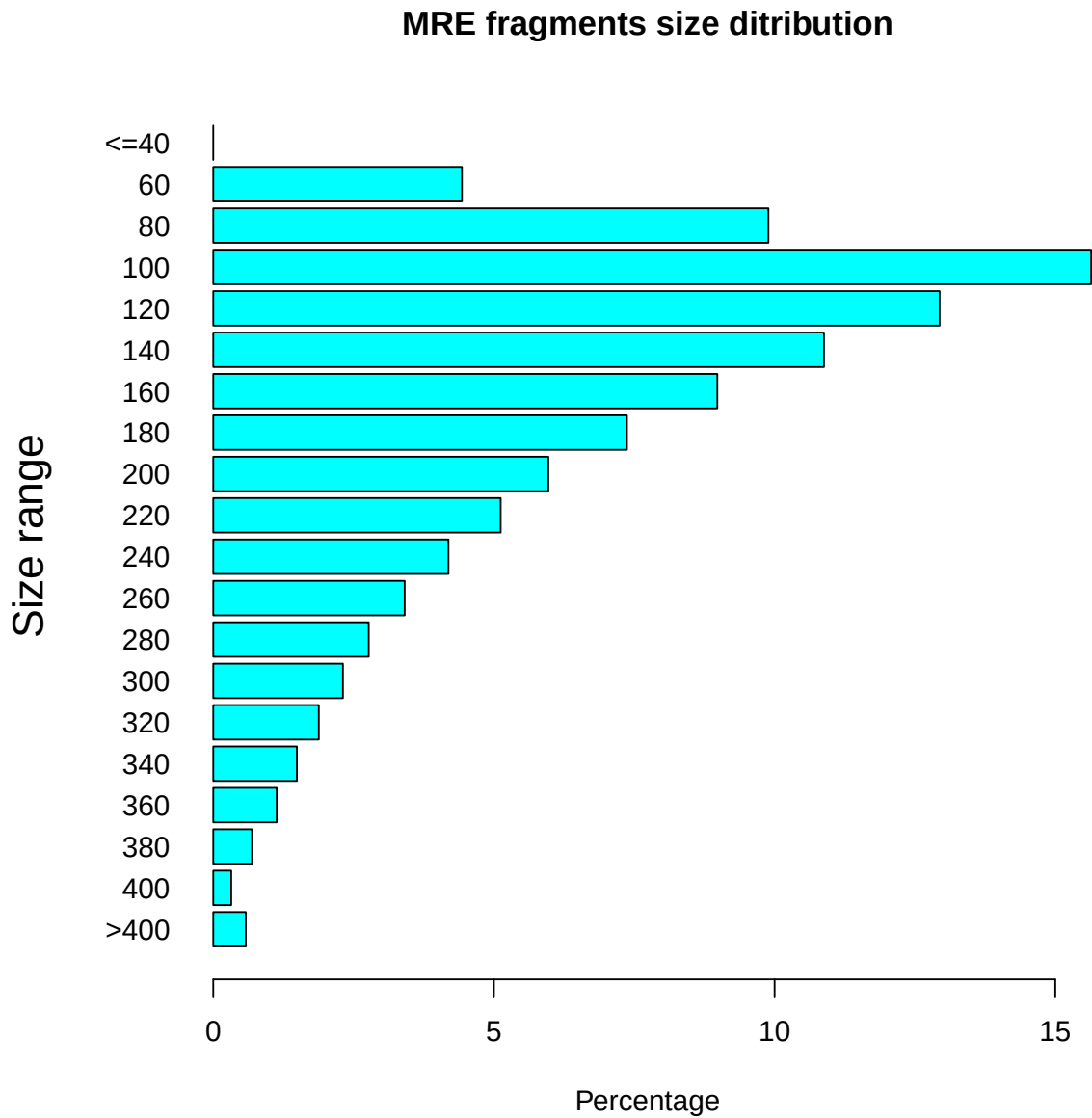
2.1 Distribution by enzyme cut site

Cut site	Count
CCGG	5321122
CCGC	7670484
GCGC	3939029
ACGT	0
CGCG	0
Unkown	8130512



2.2 Distribution by fragment size

Range	Percentage
≤ 40	0.00%
60	4.43%
80	9.89%
100	15.64%
120	12.94%
140	10.88%
160	8.98%
180	7.37%
200	5.97%
220	5.12%
240	4.19%
260	3.41%
280	2.77%
300	2.31%
320	1.88%
340	1.49%
360	1.13%
380	0.69%
400	0.32%
>400	0.58%



3 Sampled CpG sites

Total 1458871 CpG sites (5.17%) have been sampled in this dataset.

4 CpG enrichment

$$\begin{aligned} \text{CpG enrichment} &= \frac{\text{CpG count in fragments} / \text{total base of fragments}}{\text{CpG count in genome} / \text{total base of genome}} \\ &= \frac{79571312 / 1253050333}{28217448 / 3095693983} \\ &= \mathbf{6.97} \end{aligned}$$