

P2LS_MRE Report

methy1QA* version 0.1.6 (r040)

September 2, 2016

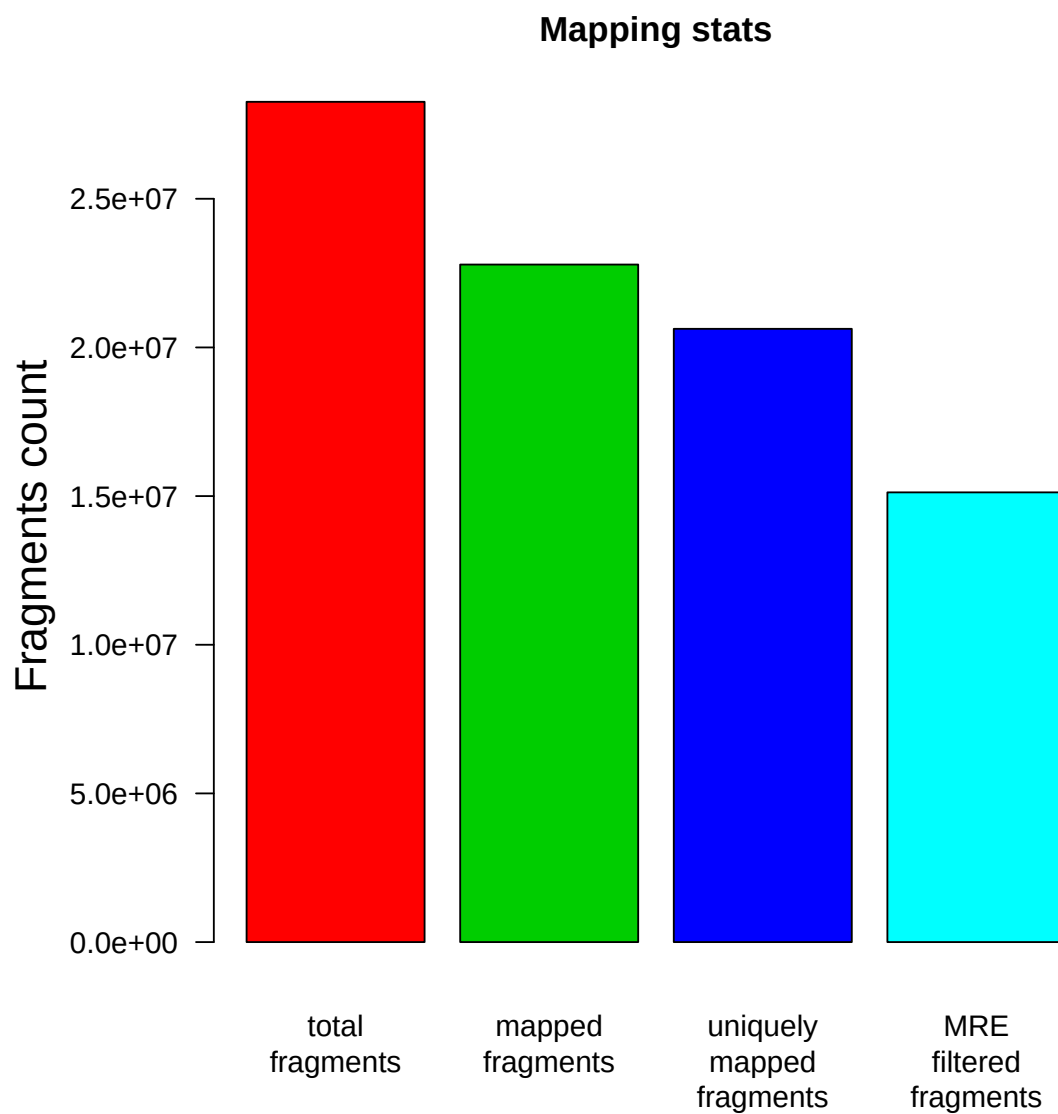
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*Website: <http://methy1QA.sourceforge.net/>

1 Mapping status

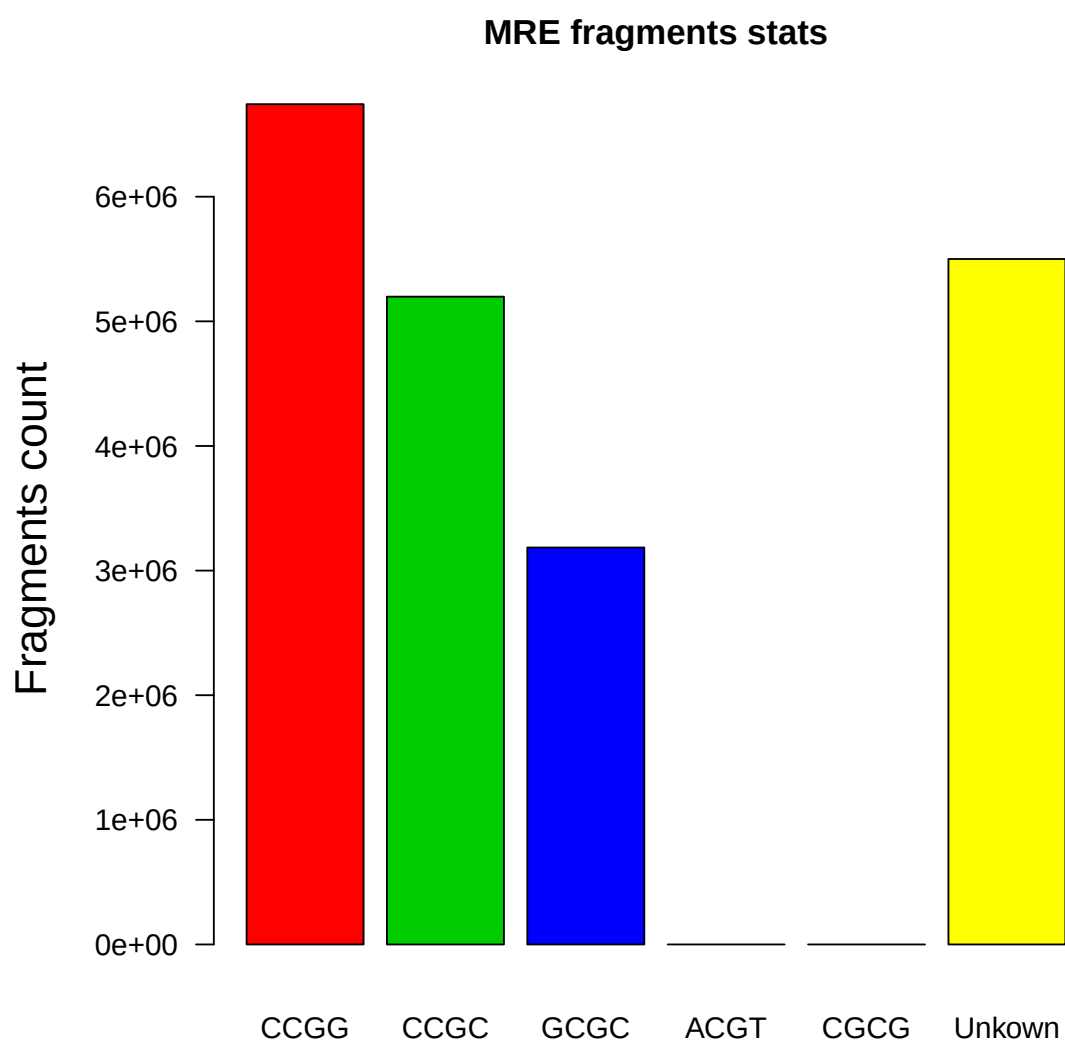
total fragments	28260986
mapped fragments	22787905
uniquely mapped fragments	20625702
MRE filtered fragments	15125437



2 MRE fragments stats

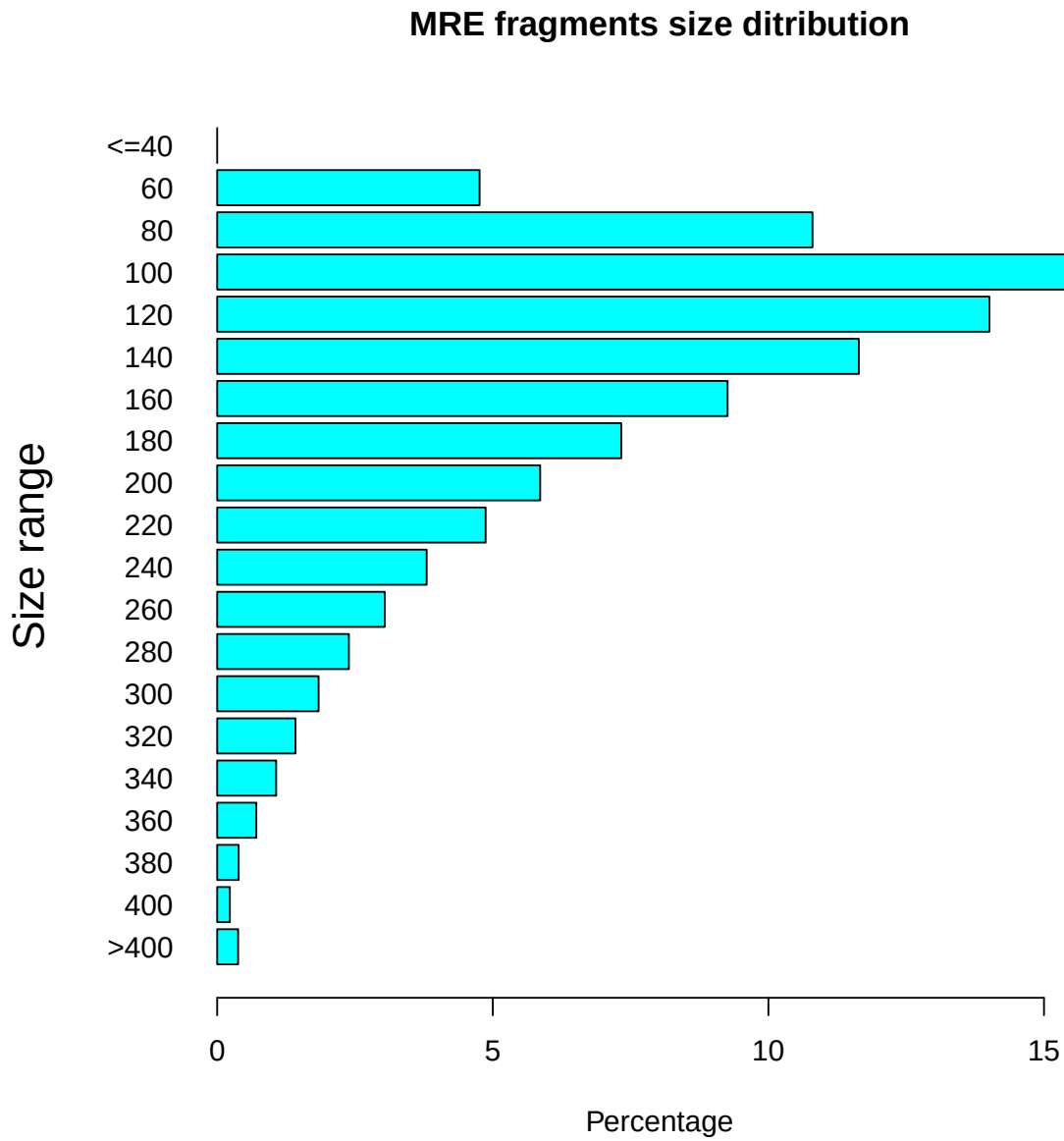
2.1 Distribution by enzyme cut site

Cut site	Count
CCGG	6742417
CCGC	5197951
GCGC	3185069
ACGT	0
CGCG	0
Unkown	5500265



2.2 Distribution by fragment size

Range	Percentage
≤ 40	0.00%
60	4.76%
80	10.80%
100	16.22%
120	14.01%
140	11.64%
160	9.26%
180	7.33%
200	5.86%
220	4.87%
240	3.80%
260	3.04%
280	2.39%
300	1.84%
320	1.42%
340	1.07%
360	0.71%
380	0.39%
400	0.23%
>400	0.38%



3 Sampled CpG sites

Total 1235659 CpG sites (4.38%) have been sampled in this dataset.

4 CpG enrichment

$$\begin{aligned} \text{CpG enrichment} &= \frac{\text{CpG count in fragments} / \text{total base of fragments}}{\text{CpG count in genome} / \text{total base of genome}} \\ &= \frac{76733270 / 1031288652}{28217448 / 3095693983} \\ &= \mathbf{8.16} \end{aligned}$$