

P3LS_MRE Report

methy1QA* version 0.1.6 (r040)

September 2, 2016

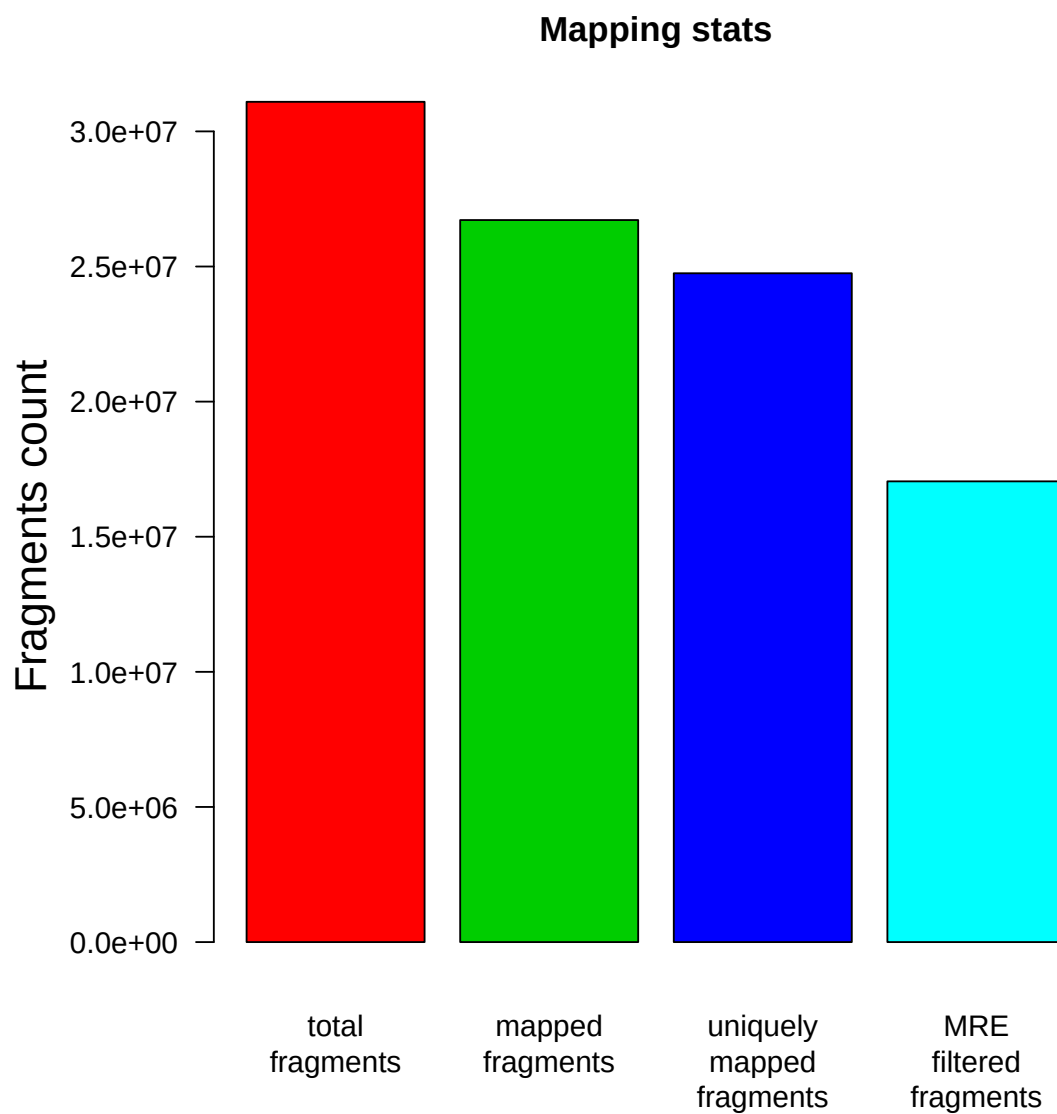
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*Website: <http://methy1QA.sourceforge.net/>

1 Mapping status

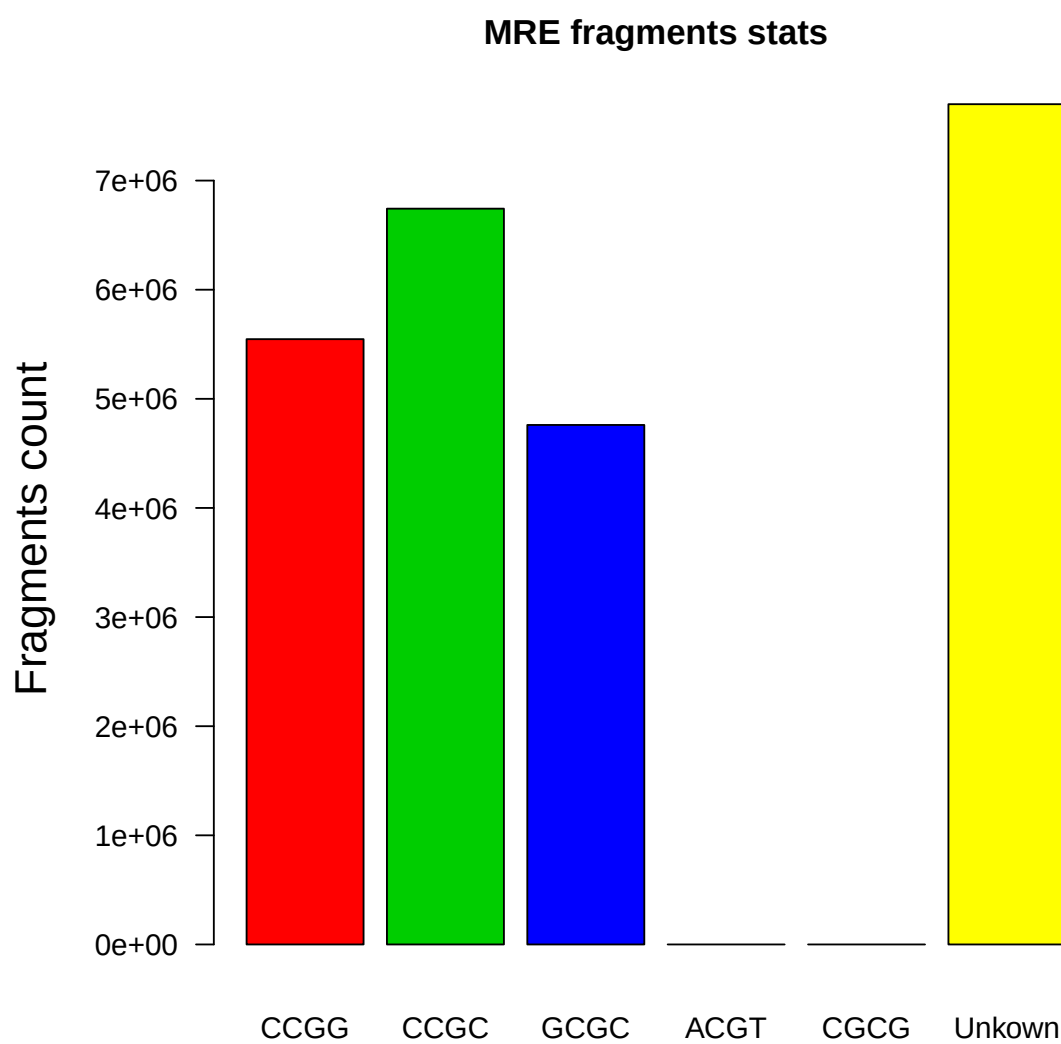
total fragments	31094303
mapped fragments	26719025
uniquely mapped fragments	24750107
MRE filtered fragments	17050059



2 MRE fragments stats

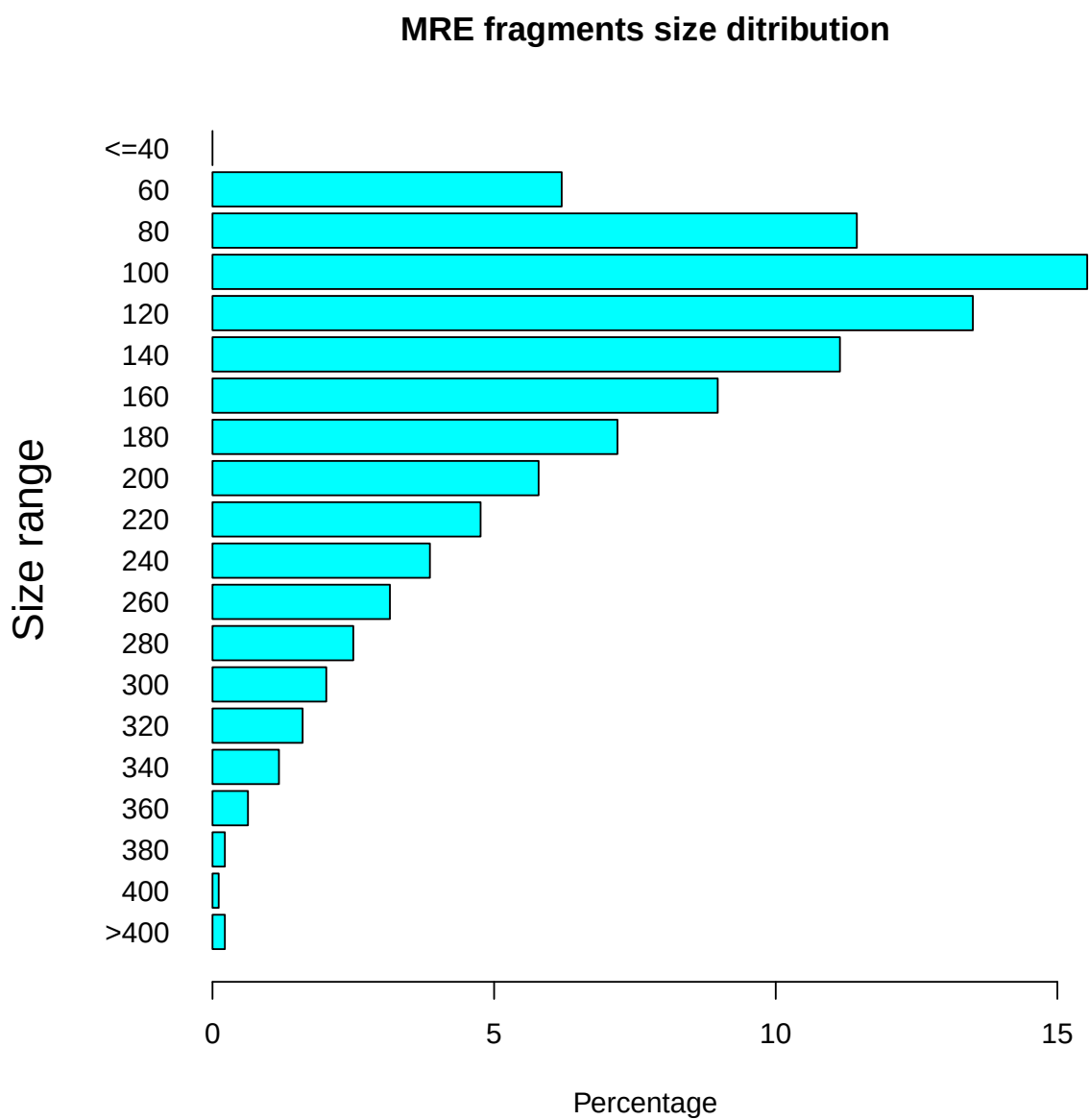
2.1 Distribution by enzyme cut site

Cut site	Count
CCGG	5546795
CCGC	6742771
GCGC	4760493
ACGT	0
CGCG	0
Unkown	7700048



2.2 Distribution by fragment size

Range	Percentage
≤ 40	0.00%
60	6.20%
80	11.44%
100	15.53%
120	13.50%
140	11.14%
160	8.97%
180	7.19%
200	5.79%
220	4.76%
240	3.86%
260	3.15%
280	2.50%
300	2.02%
320	1.60%
340	1.18%
360	0.63%
380	0.22%
400	0.11%
>400	0.22%



3 Sampled CpG sites

Total 1162186 CpG sites (4.12%) have been sampled in this dataset.

4 CpG enrichment

$$\begin{aligned} \text{CpG enrichment} &= \frac{\text{CpG count in fragments} / \text{total base of fragments}}{\text{CpG count in genome} / \text{total base of genome}} \\ &= \frac{91243003 / 1237492018}{28217448 / 3095693983} \\ &= \mathbf{8.09} \end{aligned}$$