

P1LS_MRE Report

methy1QA* version 0.1.6 (r040)

September 2, 2016

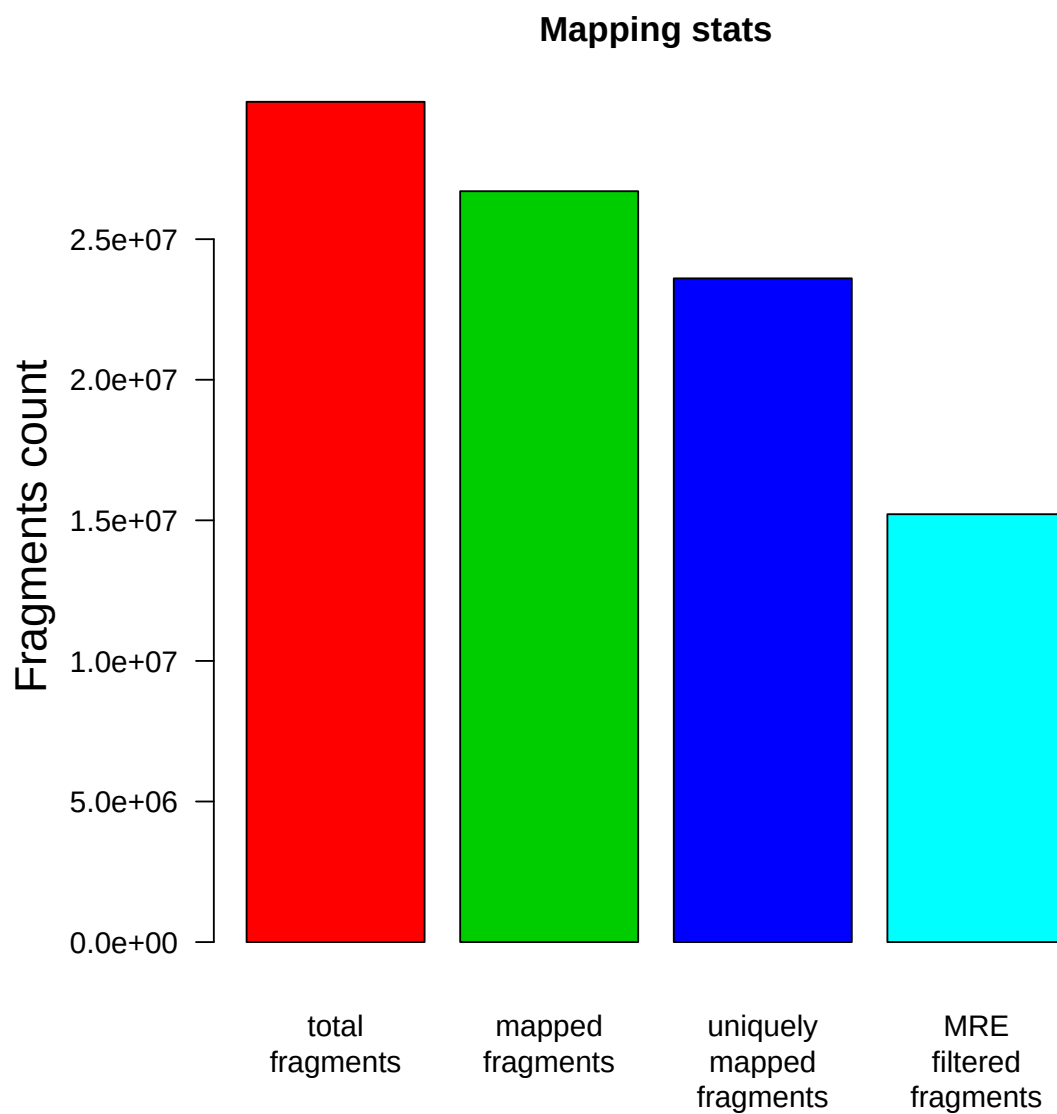
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*Website: <http://methy1QA.sourceforge.net/>

1 Mapping status

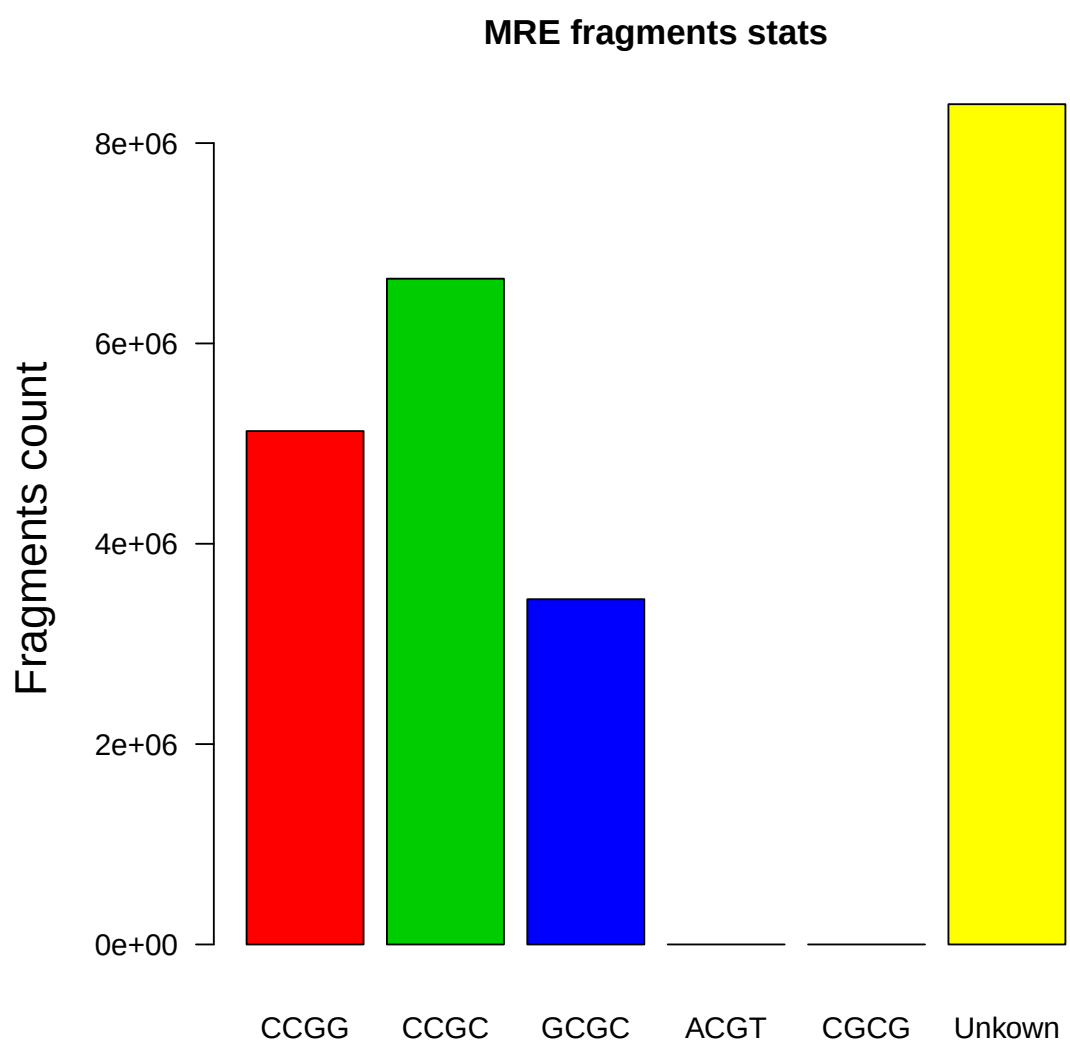
total fragments	29885787
mapped fragments	26706458
uniquely mapped fragments	23606297
MRE filtered fragments	15217851



2 MRE fragments stats

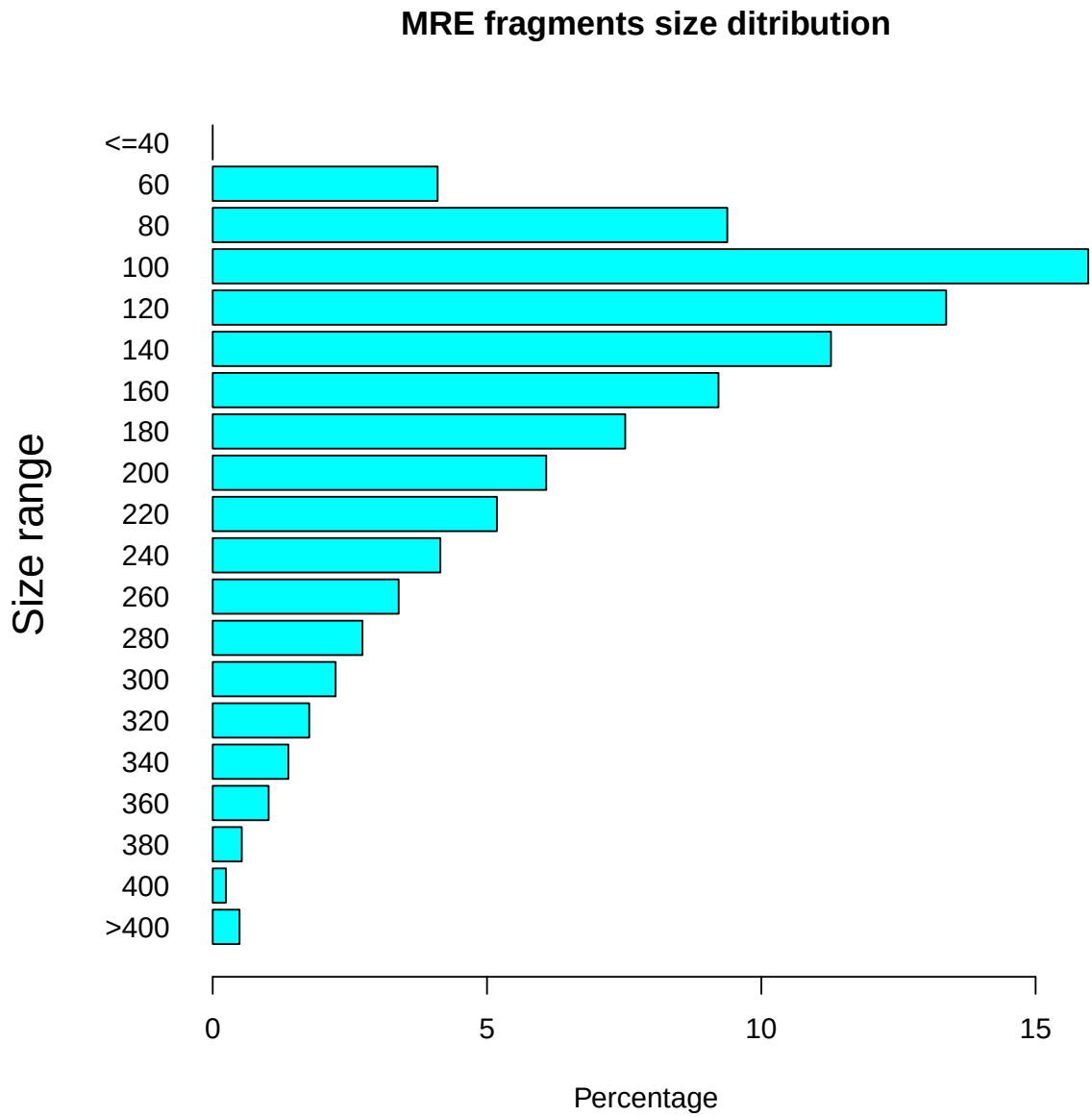
2.1 Distribution by enzyme cut site

Cut site	Count
CCGG	5124987
CCGC	6646382
GCGC	3446482
ACGT	0
CGCG	0
Unkown	8388446



2.2 Distribution by fragment size

Range	Percentage
≤ 40	0.00%
60	4.10%
80	9.38%
100	15.96%
120	13.37%
140	11.27%
160	9.22%
180	7.52%
200	6.08%
220	5.18%
240	4.15%
260	3.39%
280	2.73%
300	2.24%
320	1.76%
340	1.38%
360	1.02%
380	0.53%
400	0.24%
>400	0.49%



3 Sampled CpG sites

Total 1434280 CpG sites (5.08%) have been sampled in this dataset.

4 CpG enrichment

$$\begin{aligned} \text{CpG enrichment} &= \frac{\text{CpG count in fragments} / \text{total base of fragments}}{\text{CpG count in genome} / \text{total base of genome}} \\ &= \frac{72520926 / 1180309750}{28217448 / 3095693983} \\ &= \mathbf{6.74} \end{aligned}$$