

USS3_MRE Report

methy1QA* version 0.1.6 (r040)

September 2, 2016

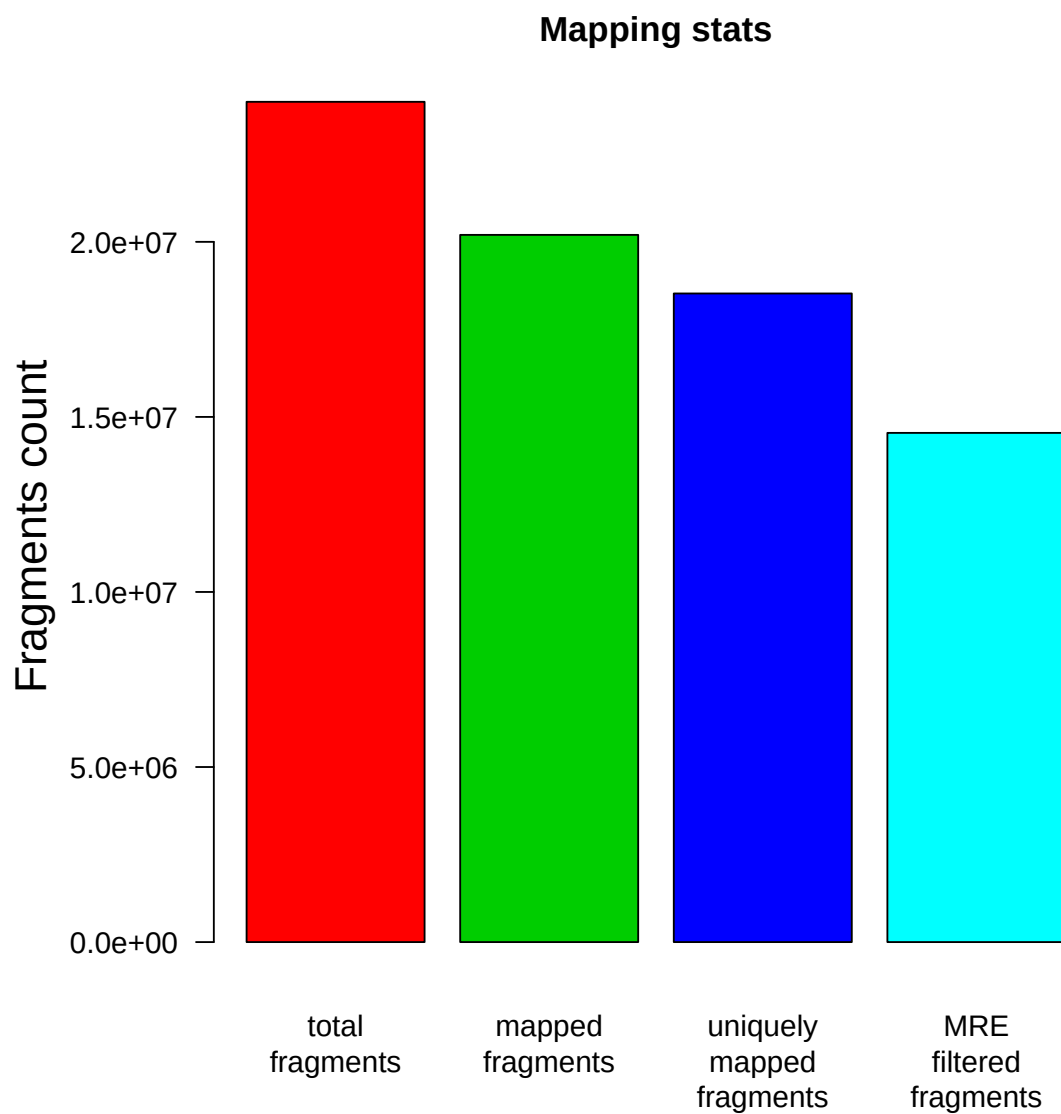
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*Website: <http://methy1QA.sourceforge.net/>

1 Mapping status

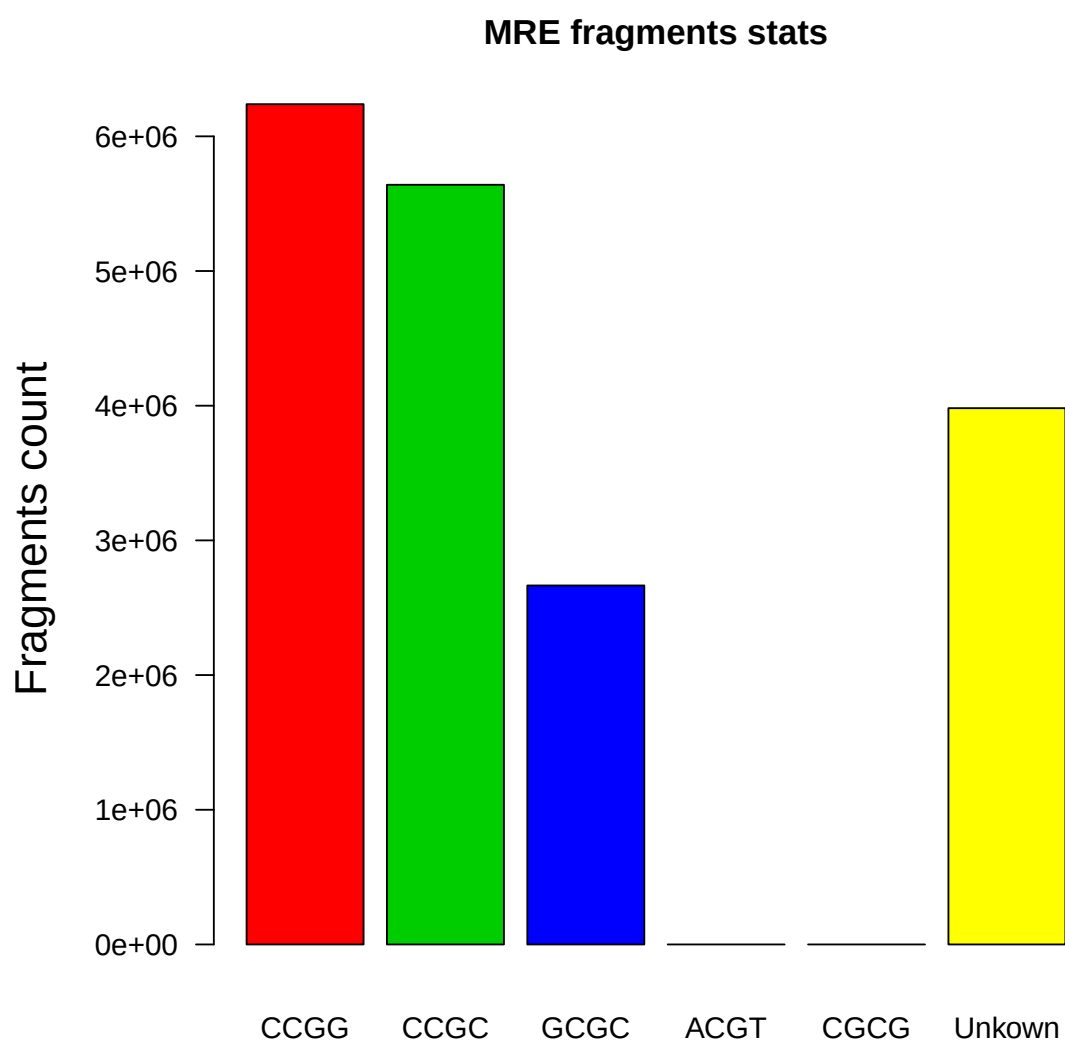
total fragments	23999792
mapped fragments	20199302
uniquely mapped fragments	18525450
MRE filtered fragments	14543803



2 MRE fragments stats

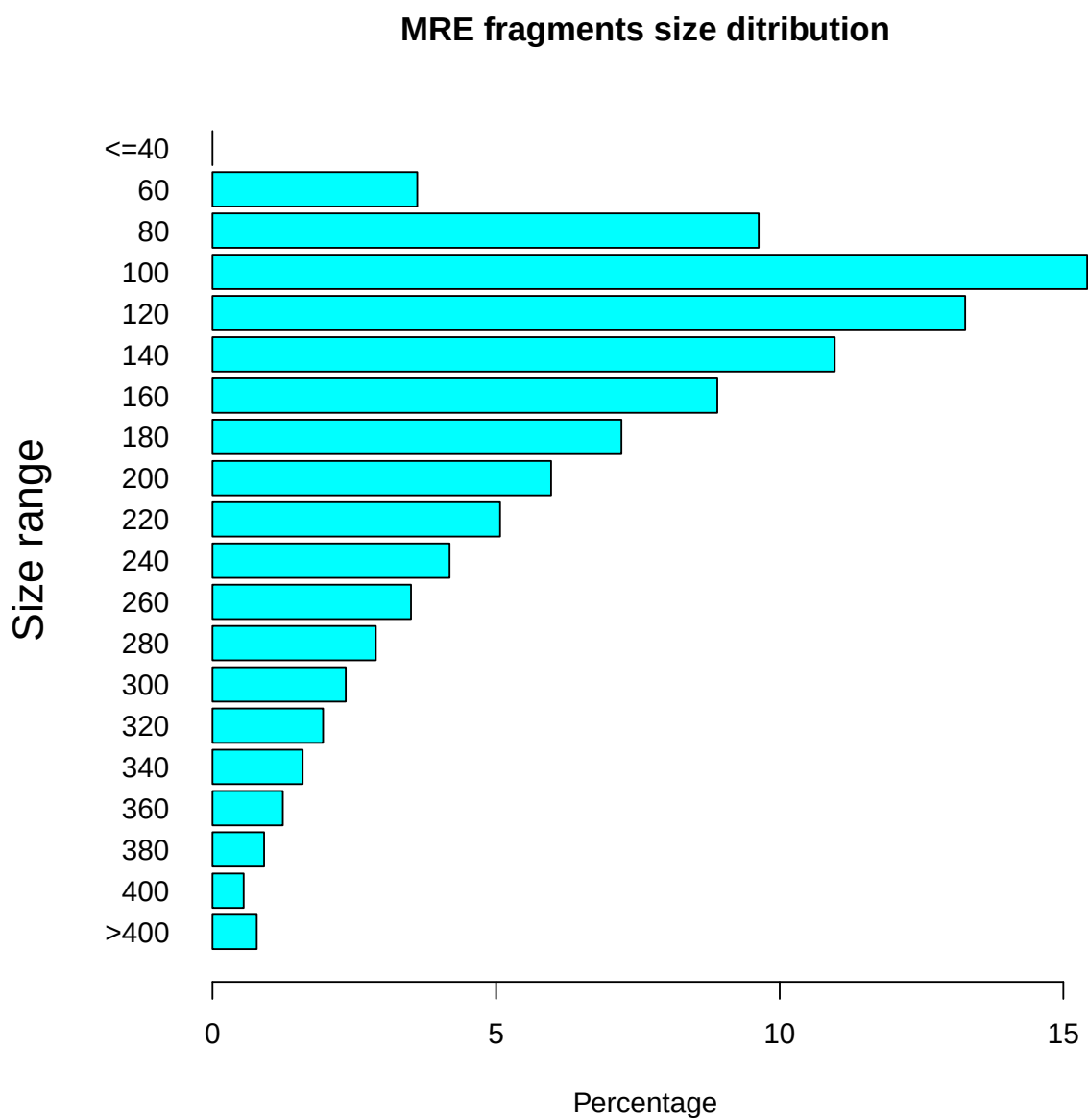
2.1 Distribution by enzyme cut site

Cut site	Count
CCGG	6238577
CCGC	5640117
GCGC	2665109
ACGT	0
CGCG	0
Unkown	3981647



2.2 Distribution by fragment size

Range	Percentage
≤ 40	0.00%
60	3.61%
80	9.63%
100	15.42%
120	13.27%
140	10.97%
160	8.90%
180	7.21%
200	5.97%
220	5.07%
240	4.18%
260	3.50%
280	2.88%
300	2.35%
320	1.95%
340	1.59%
360	1.24%
380	0.91%
400	0.55%
>400	0.78%



3 Sampled CpG sites

Total 1103777 CpG sites (3.91%) have been sampled in this dataset.

4 CpG enrichment

$$\begin{aligned} \text{CpG enrichment} &= \frac{\text{CpG count in fragments} / \text{total base of fragments}}{\text{CpG count in genome} / \text{total base of genome}} \\ &= \frac{66107955 / 926275830}{28217448 / 3095693983} \\ &= \mathbf{7.83} \end{aligned}$$