

USS1_MRE Report

methy1QA* version 0.1.6 (r040)

September 2, 2016

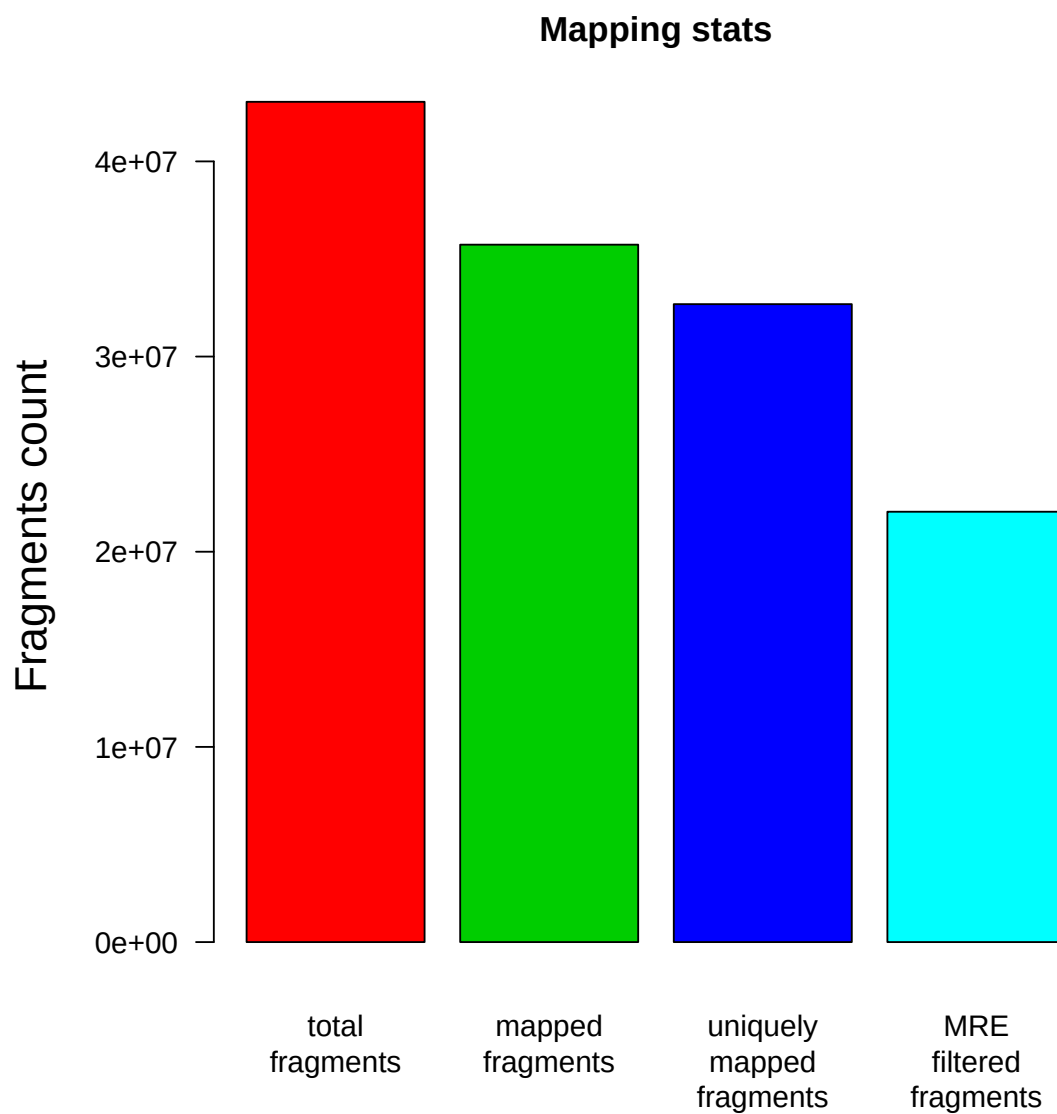
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*Website: <http://methy1QA.sourceforge.net/>

1 Mapping status

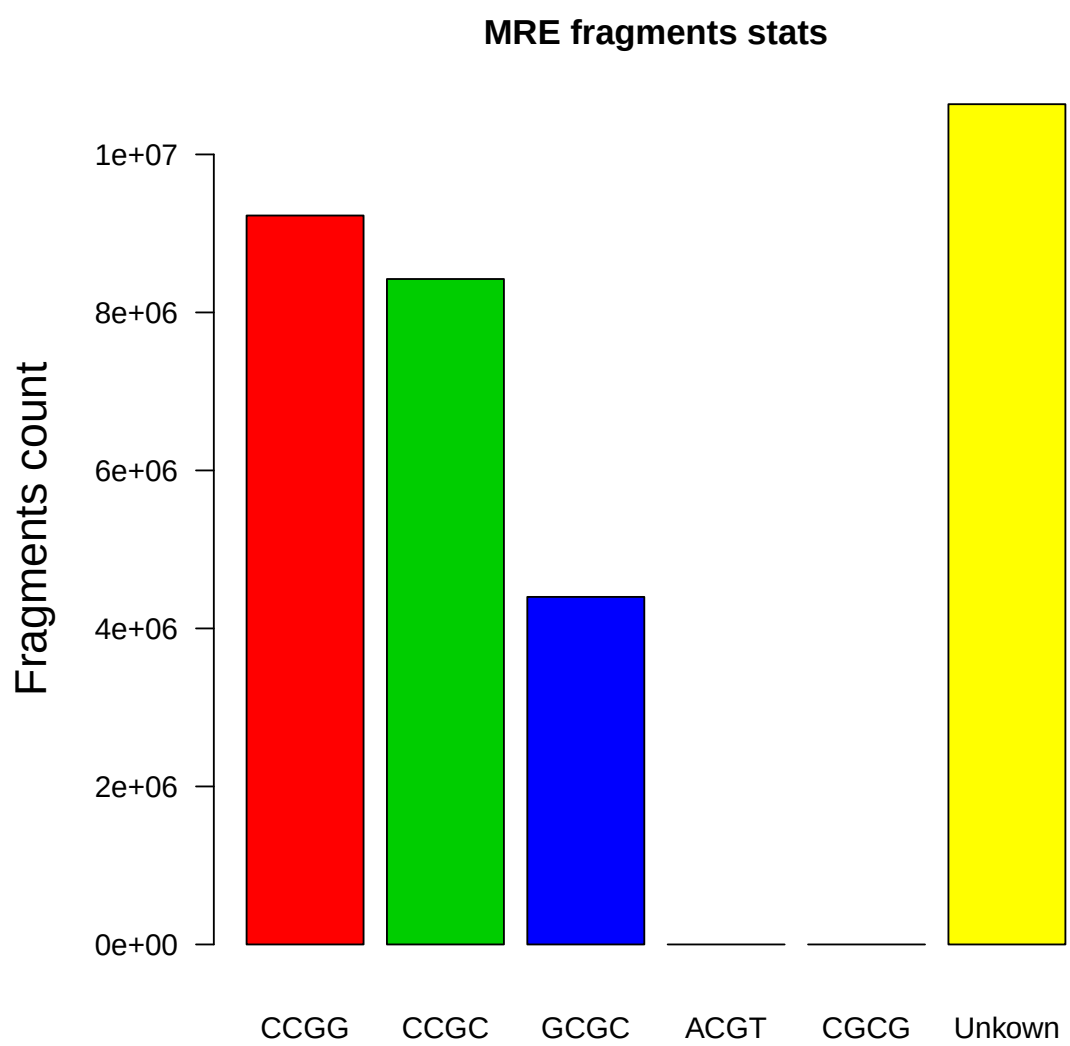
total fragments	43052128
mapped fragments	35732814
uniquely mapped fragments	32684944
MRE filtered fragments	22049061



2 MRE fragments stats

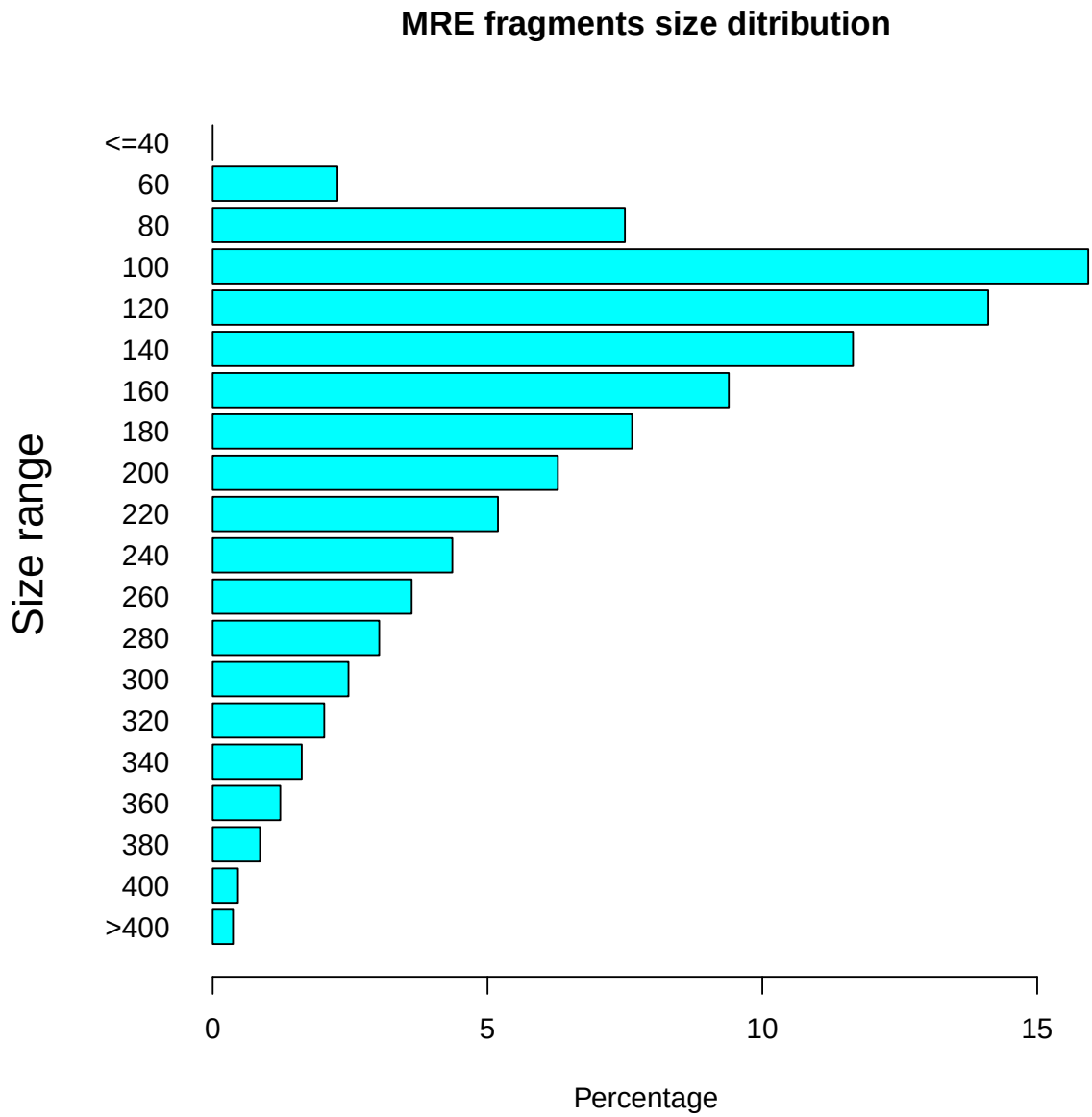
2.1 Distribution by enzyme cut site

Cut site	Count
CCGG	9226792
CCGC	8423118
GCGC	4399151
ACGT	0
CGCG	0
Unkown	10635883



2.2 Distribution by fragment size

Range	Percentage
≤ 40	0.00%
60	2.27%
80	7.50%
100	15.93%
120	14.11%
140	11.65%
160	9.39%
180	7.63%
200	6.28%
220	5.19%
240	4.36%
260	3.62%
280	3.03%
300	2.47%
320	2.03%
340	1.62%
360	1.23%
380	0.86%
400	0.46%
>400	0.37%



3 Sampled CpG sites

Total 1037429 CpG sites (3.68%) have been sampled in this dataset.

4 CpG enrichment

$$\begin{aligned} \text{CpG enrichment} &= \frac{\text{CpG count in fragments} / \text{total base of fragments}}{\text{CpG count in genome} / \text{total base of genome}} \\ &= \frac{109513334 / 1634253071}{28217448 / 3095693983} \\ &= \mathbf{7.35} \end{aligned}$$