

USS2_merge_MRE Report

methy1QA* version 0.1.6 (r040)

September 2, 2016

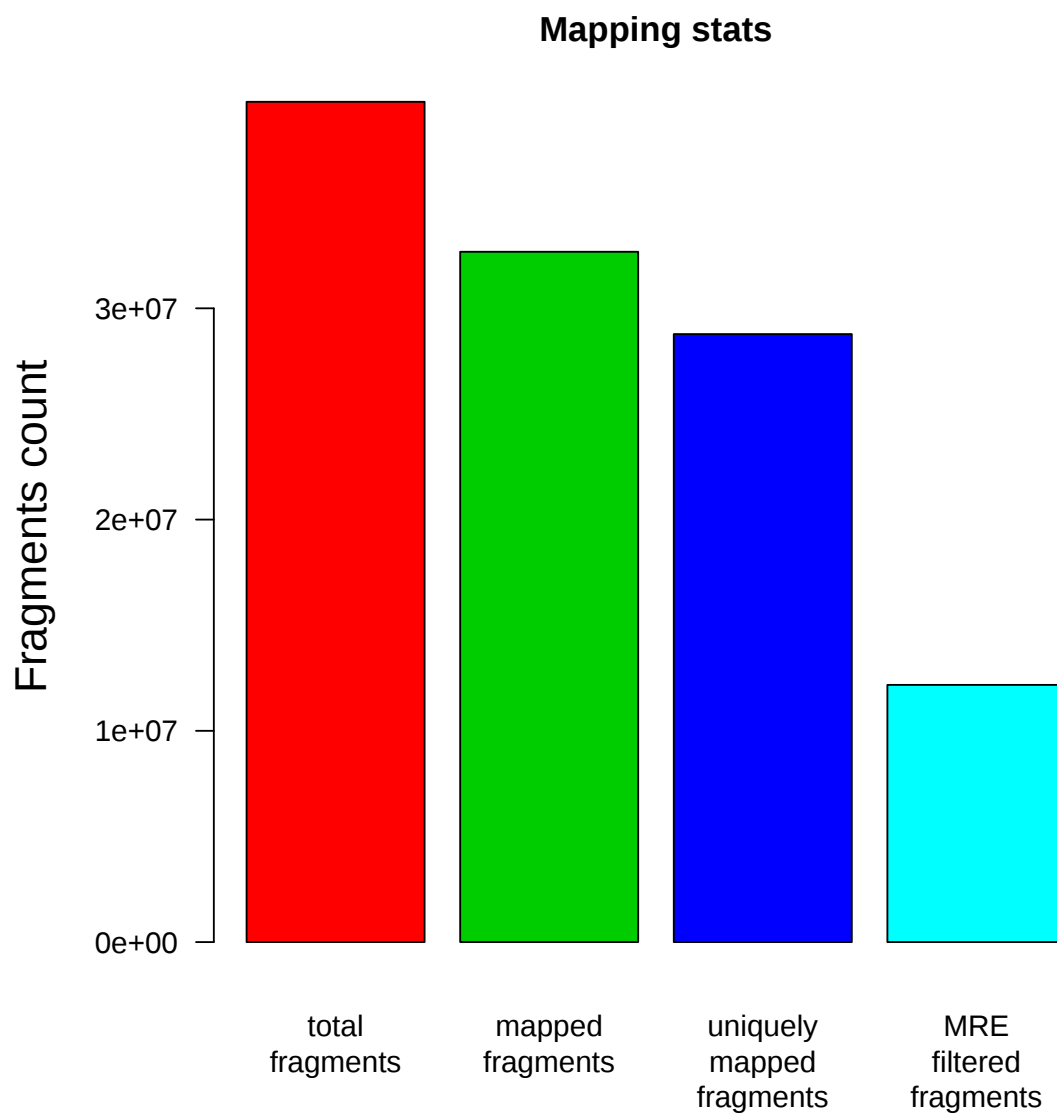
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*Website: <http://methy1QA.sourceforge.net/>

1 Mapping status

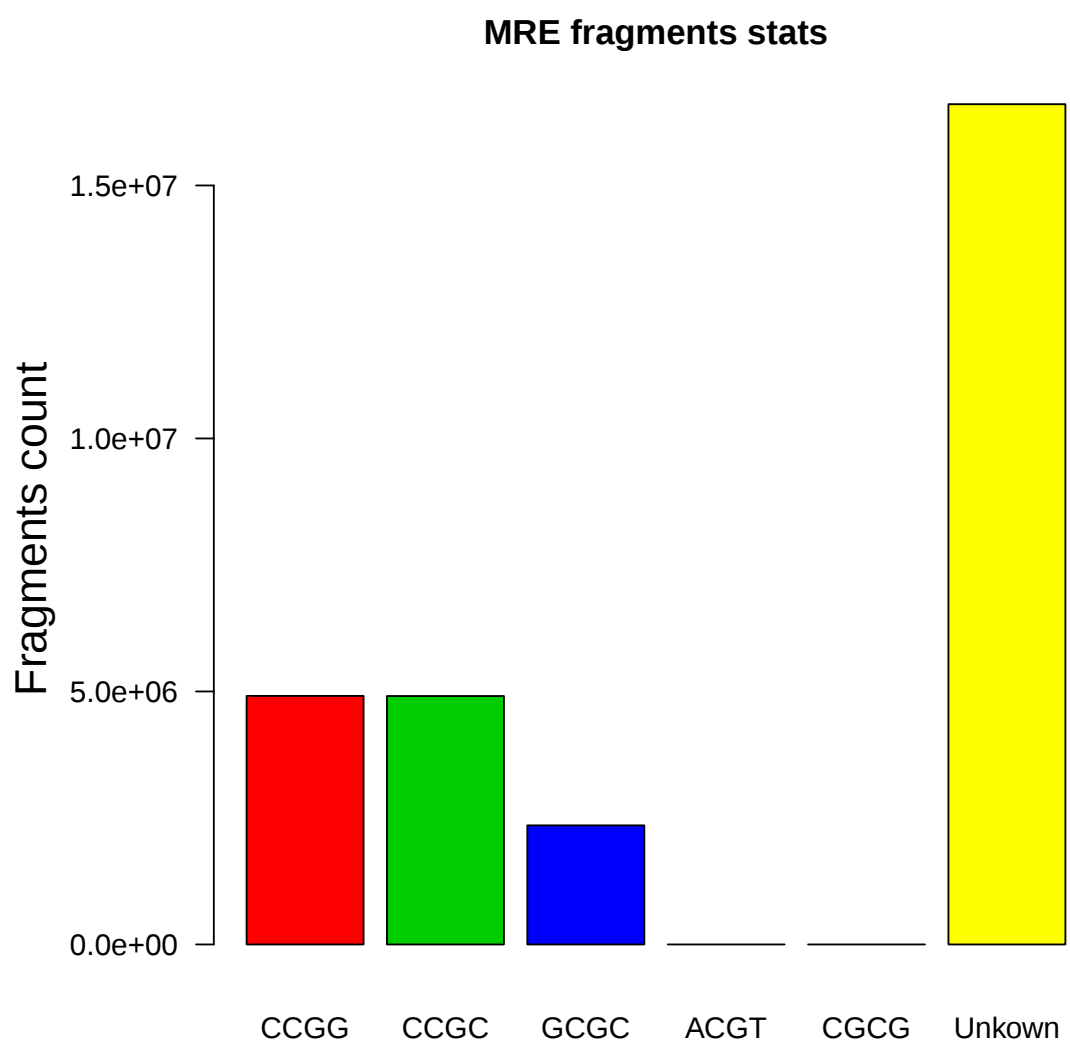
total fragments	39775422
mapped fragments	32676645
uniquely mapped fragments	28780866
MRE filtered fragments	12174617



2 MRE fragments stats

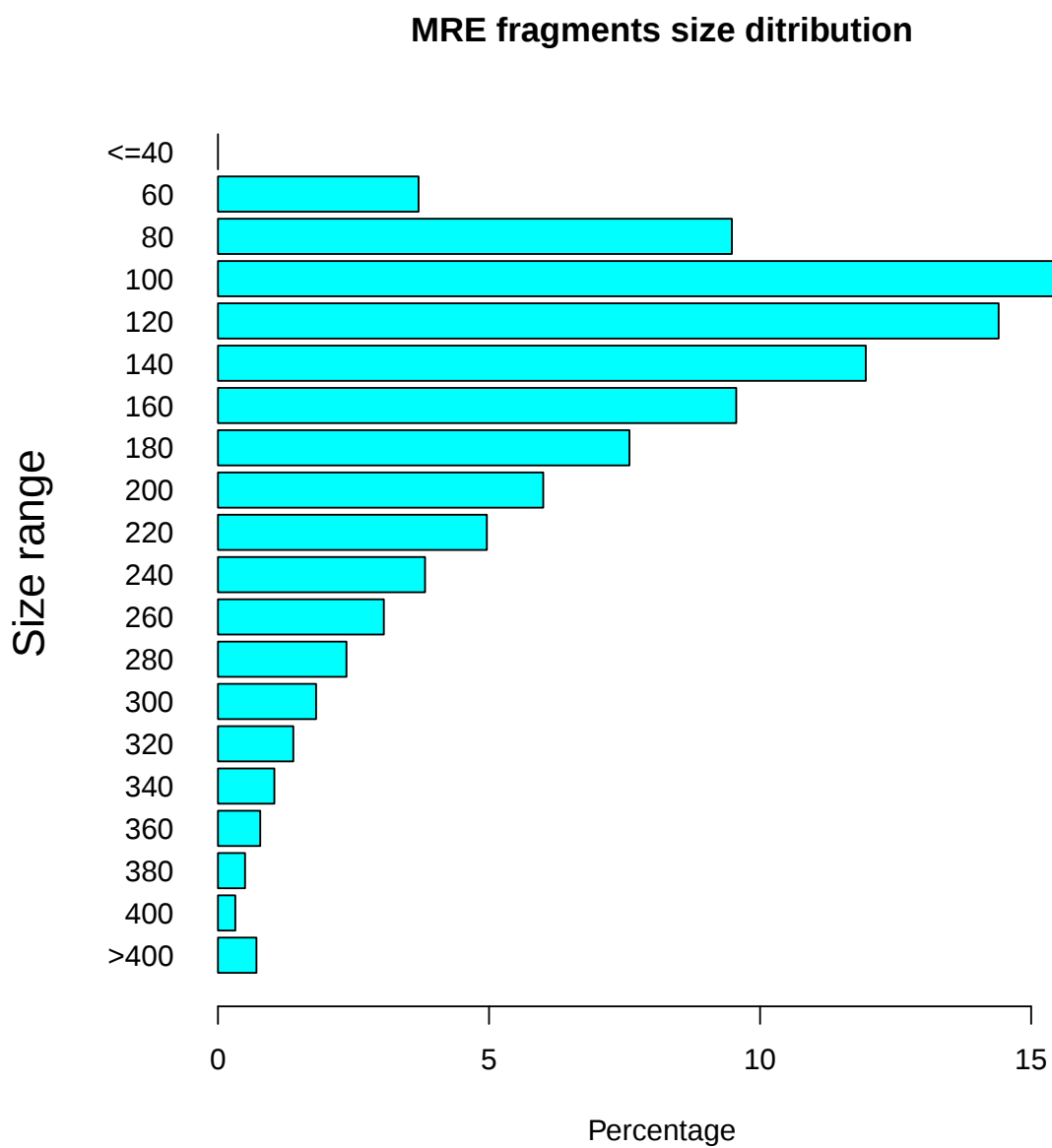
2.1 Distribution by enzyme cut site

Cut site	Count
CCGG	4912232
CCGC	4909382
GCGC	2353003
ACGT	0
CGCG	0
Unkown	16606249



2.2 Distribution by fragment size

Range	Percentage
≤ 40	0.00%
60	3.70%
80	9.48%
100	16.55%
120	14.40%
140	11.95%
160	9.56%
180	7.59%
200	6.00%
220	4.96%
240	3.82%
260	3.06%
280	2.37%
300	1.81%
320	1.39%
340	1.04%
360	0.78%
380	0.50%
400	0.32%
>400	0.71%



3 Sampled CpG sites

Total 1353950 CpG sites (4.80%) have been sampled in this dataset.

4 CpG enrichment

$$\begin{aligned}
 \text{CpG enrichment} &= \frac{\text{CpG count in fragments} / \text{total base of fragments}}{\text{CpG count in genome} / \text{total base of genome}} \\
 &= \frac{67815974 / 1439059478}{28217448 / 3095693983} \\
 &= \mathbf{5.17}
 \end{aligned}$$