

TW785_V3_MeDIP Report

methy1QA* version 0.1.6 (r040)

May 12, 2016

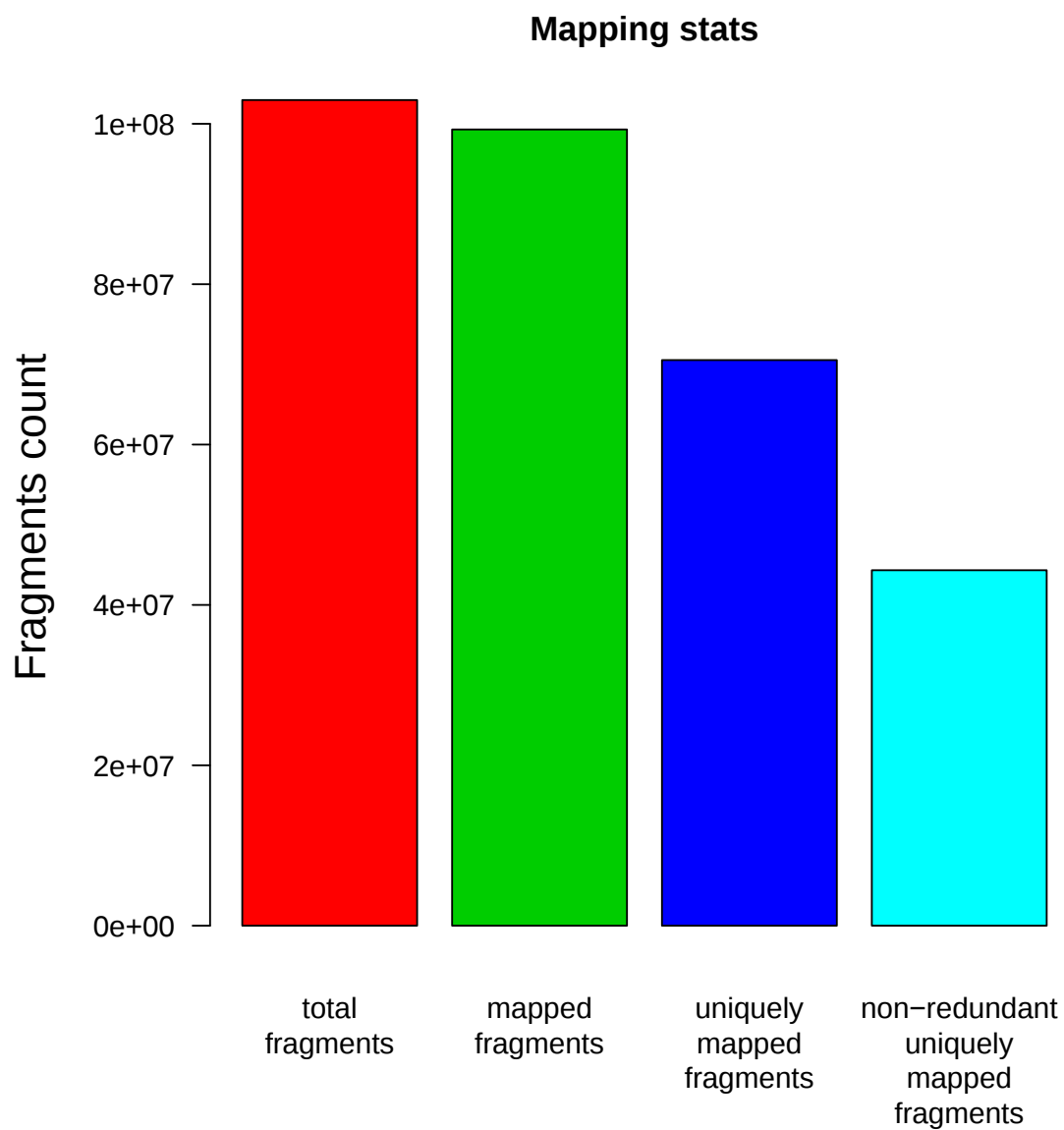
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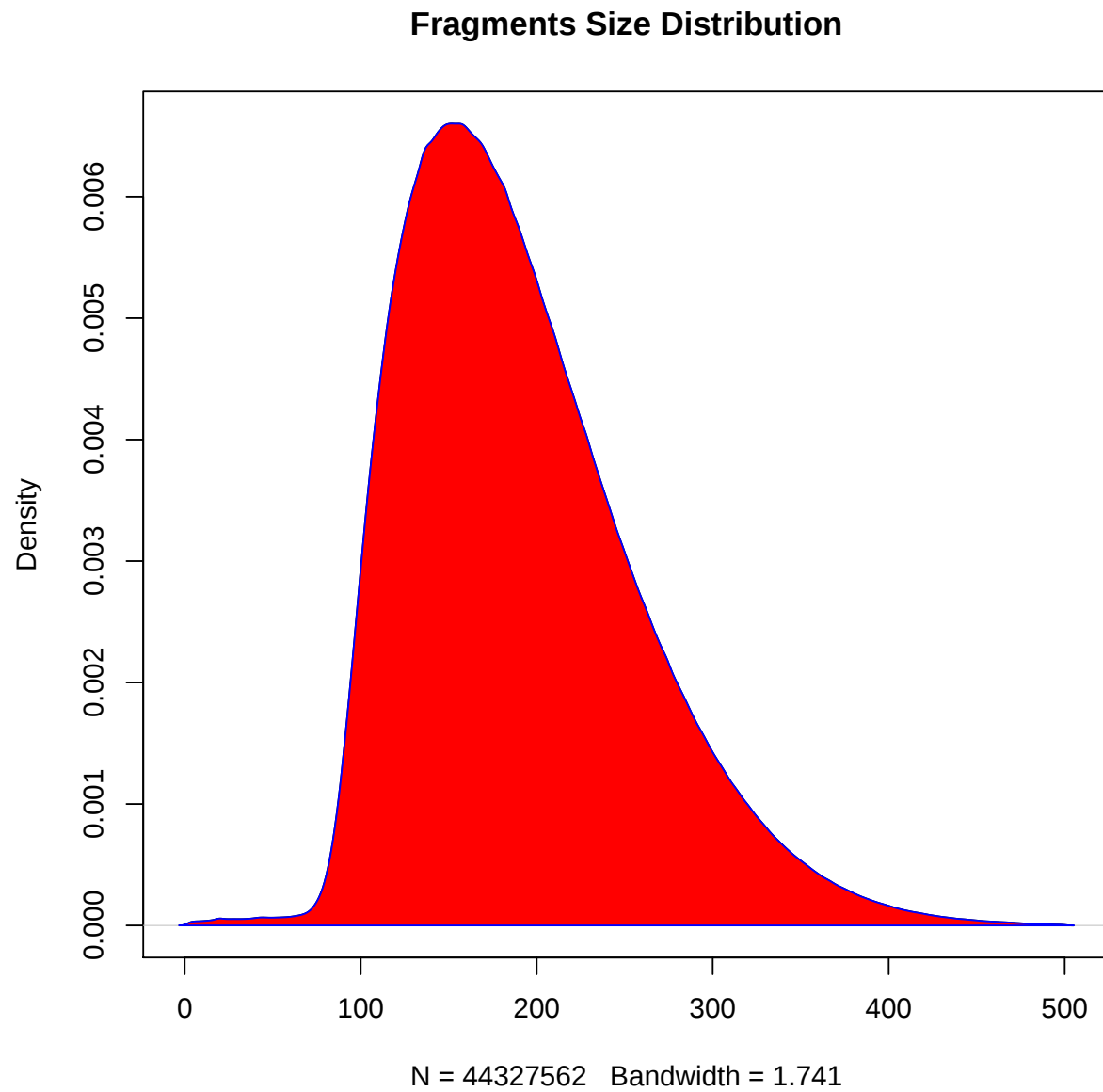
*Website: <http://methy1QA.sourceforge.net/>

1 Mapping status

total fragments	102962379
mapped fragments	99294274
uniquely mapped fragments	70536139
non-redundant uniquely mapped fragments	44327562

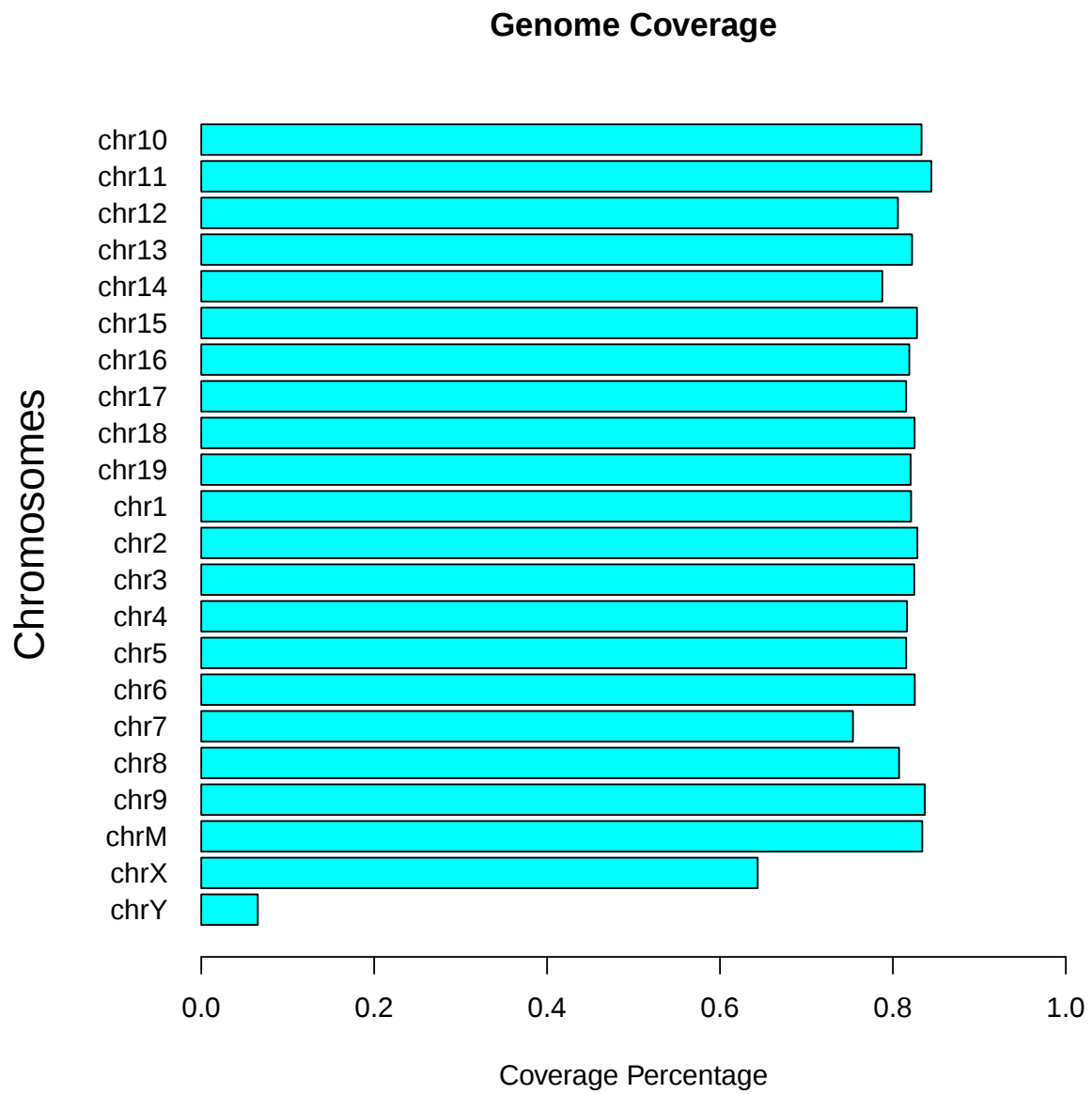


2 Fragments size distribution



3 Genomic coverage

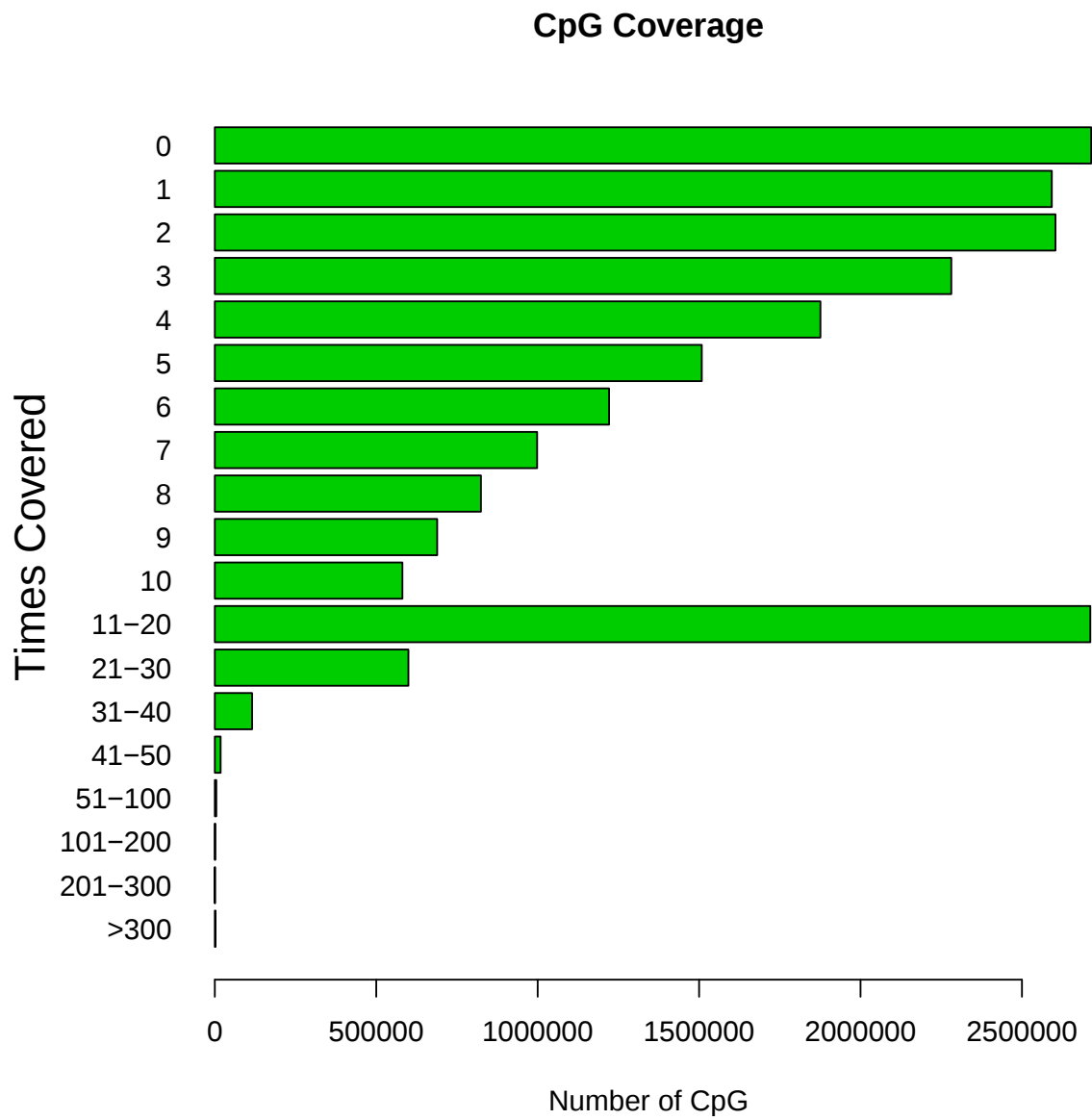
chromosome	total base	covered base	covered percentage
chr10	129993255	108297145	83.31%
chr11	121843856	102904779	84.46%
chr12	121257530	97710106	80.58%
chr13	120284312	98884805	82.21%
chr14	125194864	98622388	78.78%
chr15	103494974	85676372	82.78%
chr16	98319150	80521398	81.90%
chr17	95272651	77677602	81.53%
chr18	90772031	74899455	82.51%
chr19	61342430	50334440	82.05%
chr1	197195432	161904252	82.10%
chr2	181748087	150545102	82.83%
chr3	159599783	131619438	82.47%
chr4	155630120	127052895	81.64%
chr5	152537259	124377272	81.54%
chr6	149517037	123396856	82.53%
chr7	152524553	114974137	75.38%
chr8	131738871	106328194	80.71%
chr9	124076172	103848595	83.70%
chrM	16299	13593	83.40%
chrX	166650296	107260713	64.36%
chrY	15902555	1040027	6.54%
Whole Genome	2654911517	2127889564	80.15%



4 CpG status

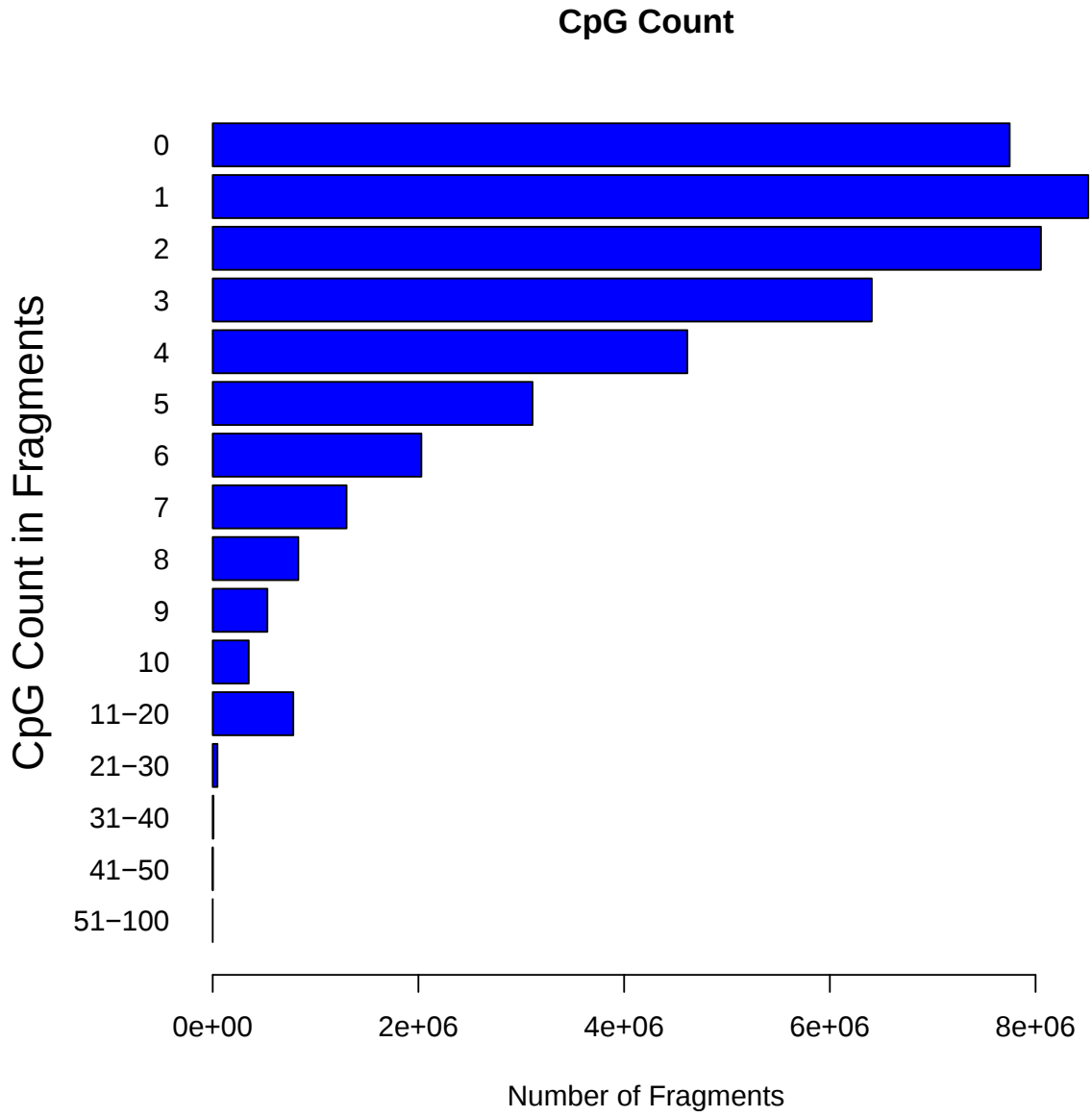
4.1 CpG coverage

Range	Count
0	2714358
1	2592446
2	2603768
3	2281121
4	1875772
5	1508307
6	1221128
7	998317
8	824261
9	688771
10	581034
11-20	2711800
21-30	599611
31-40	115514
41-50	17978
51-100	4551
101-200	1253
201-300	597
>300	2192



4.2 CpG count

Range	Count
0	7748505
1	8512626
2	8052609
3	6407483
4	4614655
5	3109284
6	2028815
7	1301445
8	832707
9	531752
10	350618
11-20	783922
21-30	46358
31-40	5861
41-50	831
51-100	91



5 CpG enrichment

$$\begin{aligned}
 \text{CpG enrichment} &= \frac{\text{CpG count in fragments} / \text{total base of fragments}}{\text{CpG count in genome} / \text{total base of genome}} \\
 &= \frac{125733715 / 8441424472}{21342779 / 2654911517}
 \end{aligned}$$

$$= 1.85$$