

P2LC_BWaseMeDip Report

methy1QA* version 0.1.6 (r040)

September 3, 2016

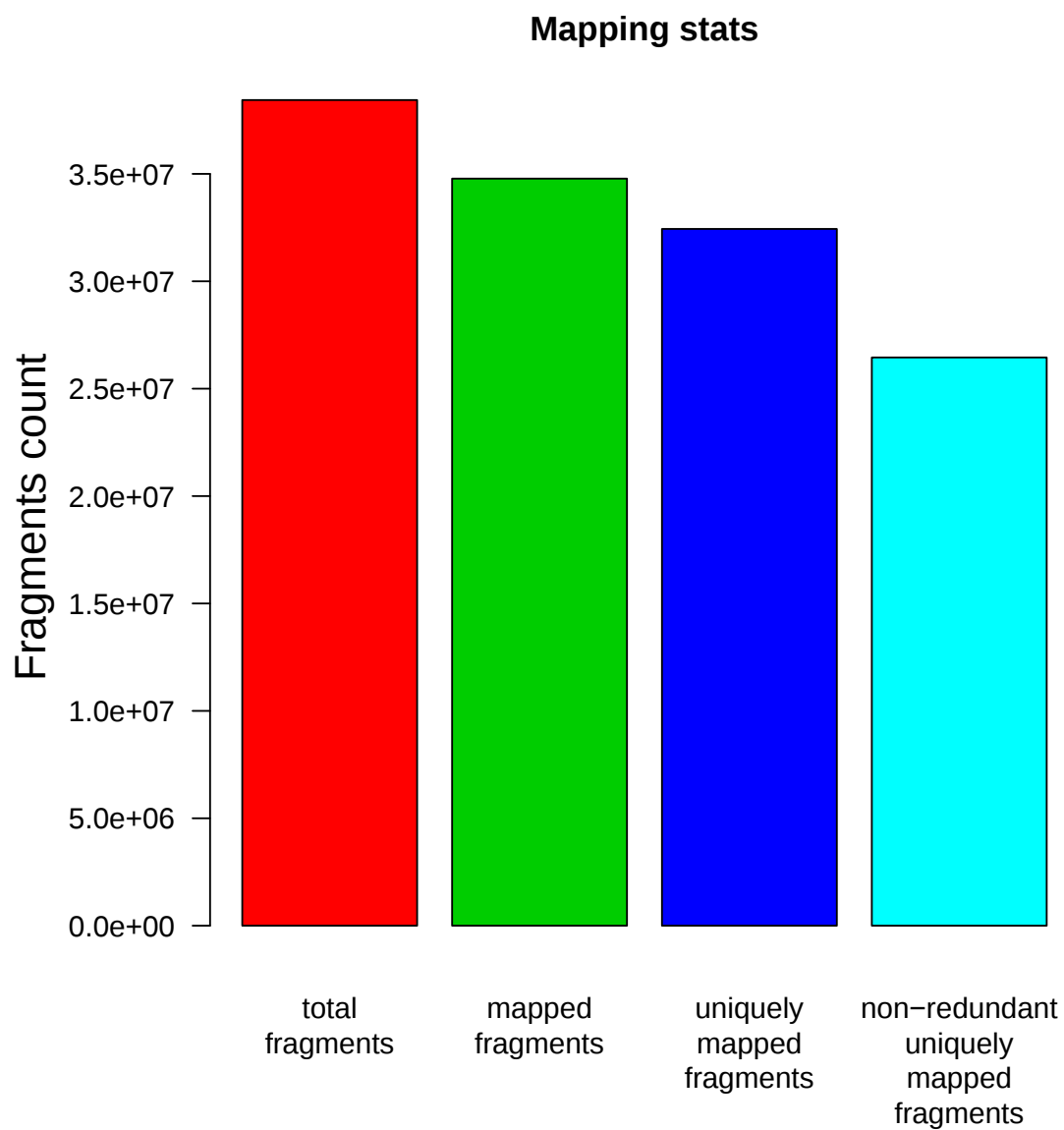
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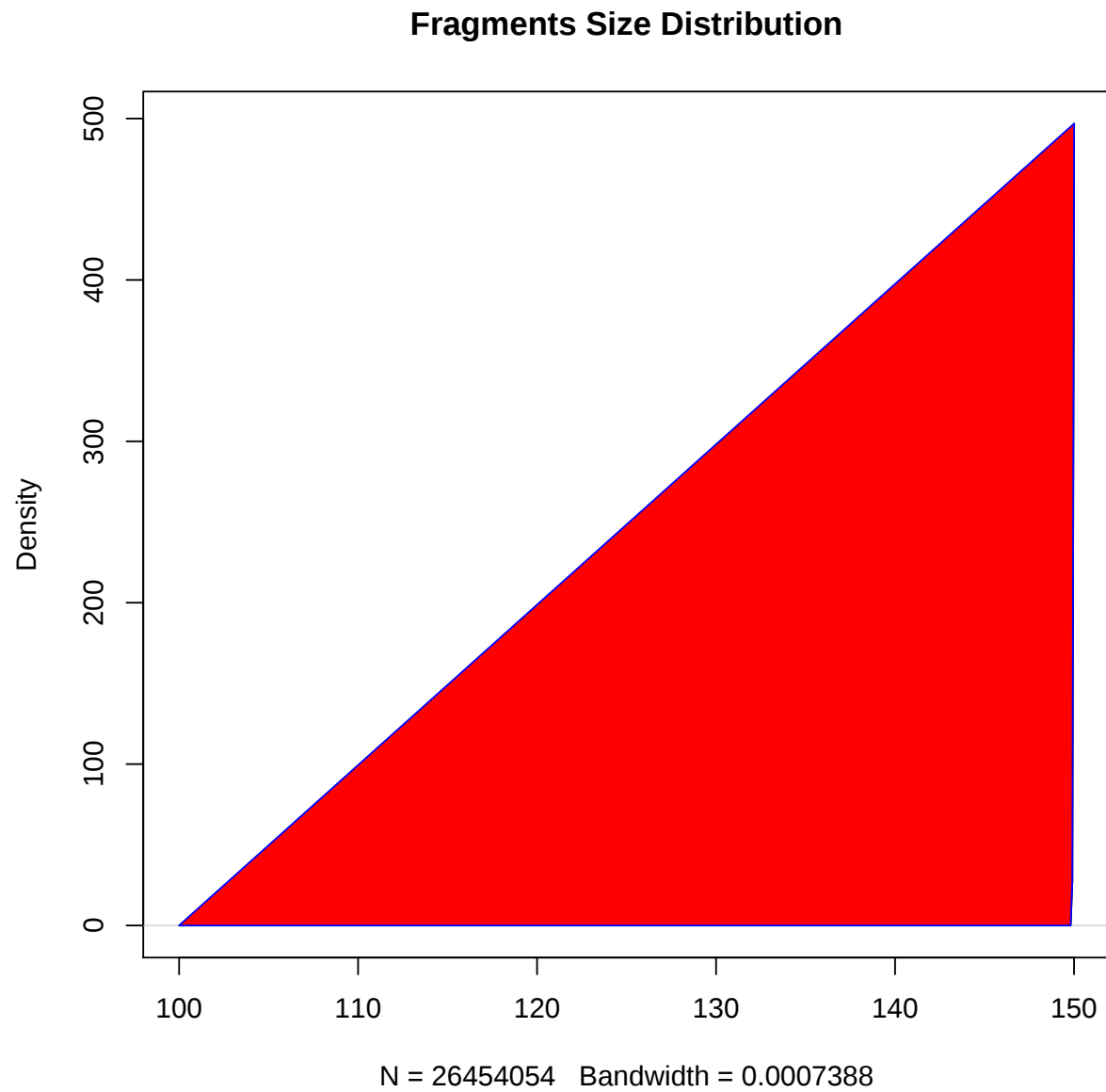
*Website: <http://methy1QA.sourceforge.net/>

1 Mapping status

total fragments	38436914
mapped fragments	34779371
uniquely mapped fragments	32437171
non-redundant uniquely mapped fragments	26454054

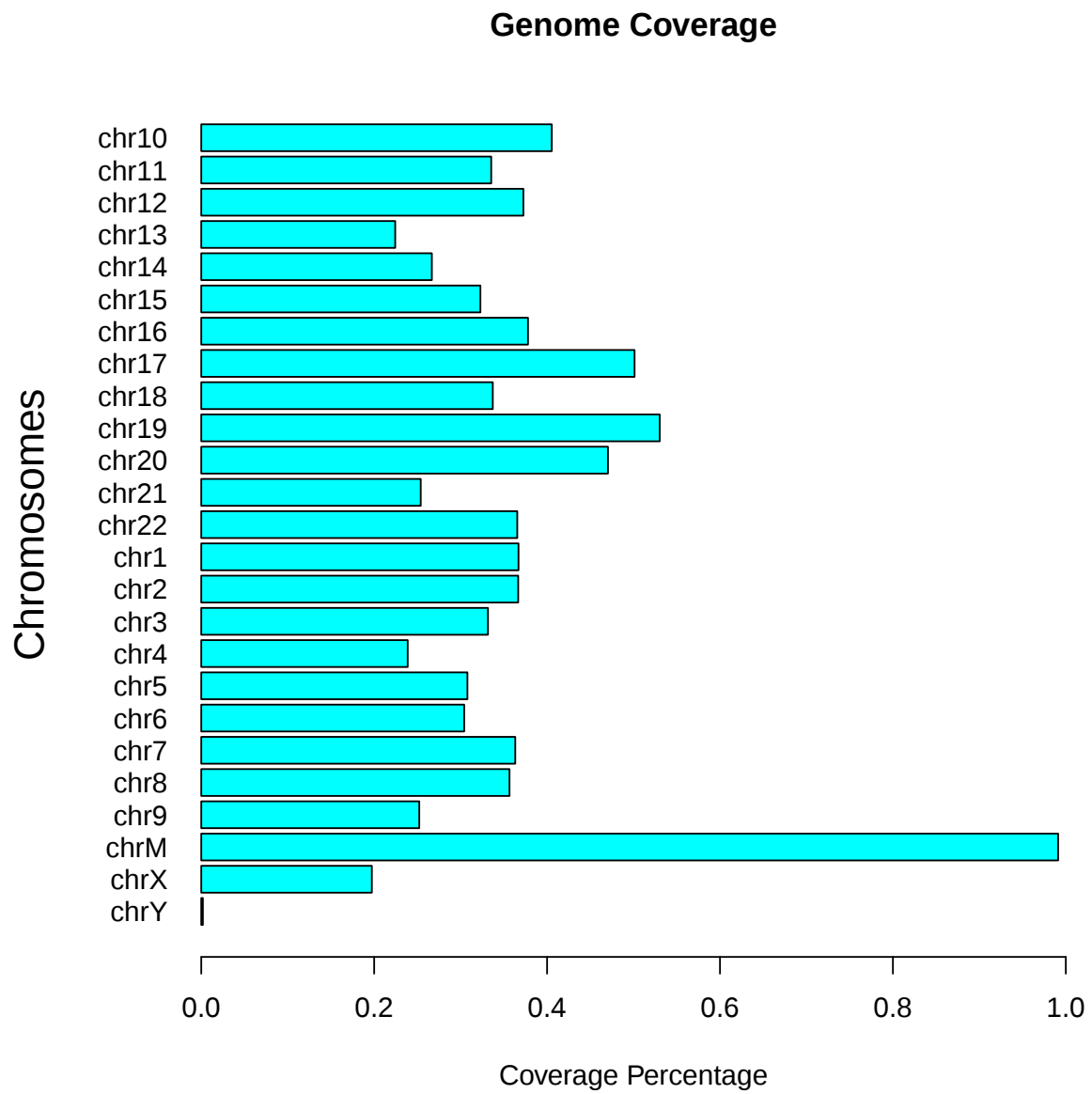


2 Fragments size distribution



3 Genomic coverage

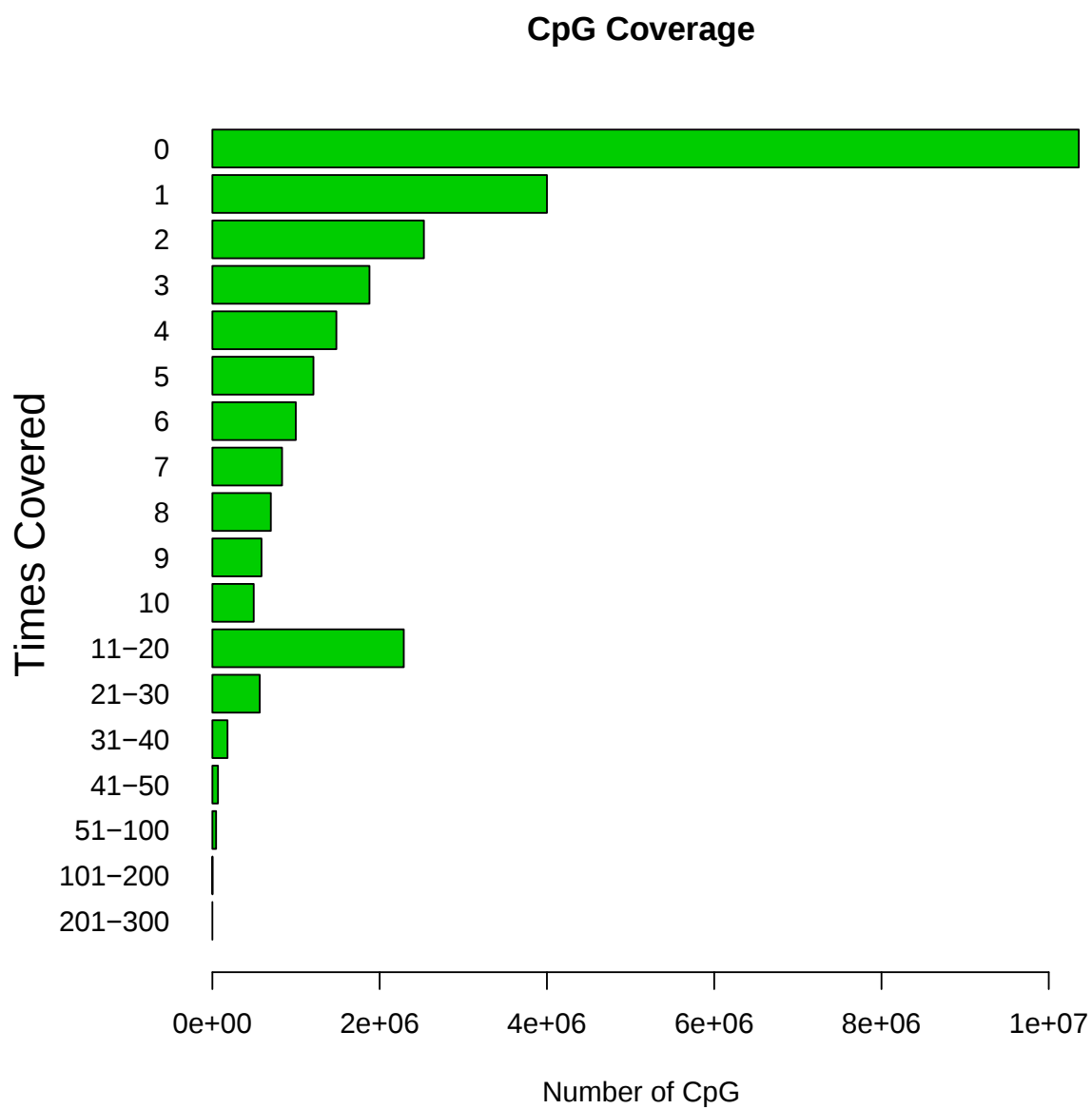
chromosome	total base	covered base	covered percentage
chr10	135534747	54947735	40.54%
chr11	135006516	45278553	33.54%
chr12	133851895	49873544	37.26%
chr13	115169878	25834983	22.43%
chr14	107349540	28628914	26.67%
chr15	102531392	33103640	32.29%
chr16	90354753	34145892	37.79%
chr17	81195210	40692899	50.12%
chr18	78077248	26326630	33.72%
chr19	59128983	31354699	53.03%
chr20	63025520	29648779	47.04%
chr21	48129895	12217186	25.38%
chr22	51304566	18751522	36.55%
chr1	249250621	91459915	36.69%
chr2	243199373	89151850	36.66%
chr3	198022430	65666346	33.16%
chr4	191154276	45641359	23.88%
chr5	180915260	55693889	30.78%
chr6	171115067	52041343	30.41%
chr7	159138663	57797396	36.32%
chr8	146364022	52182475	35.65%
chr9	141213431	35607758	25.22%
chrM	16571	16424	99.11%
chrX	155270560	30635557	19.73%
chrY	59373566	109660	0.18%
Whole Genome	3095693983	1006808948	32.52%



4 CpG status

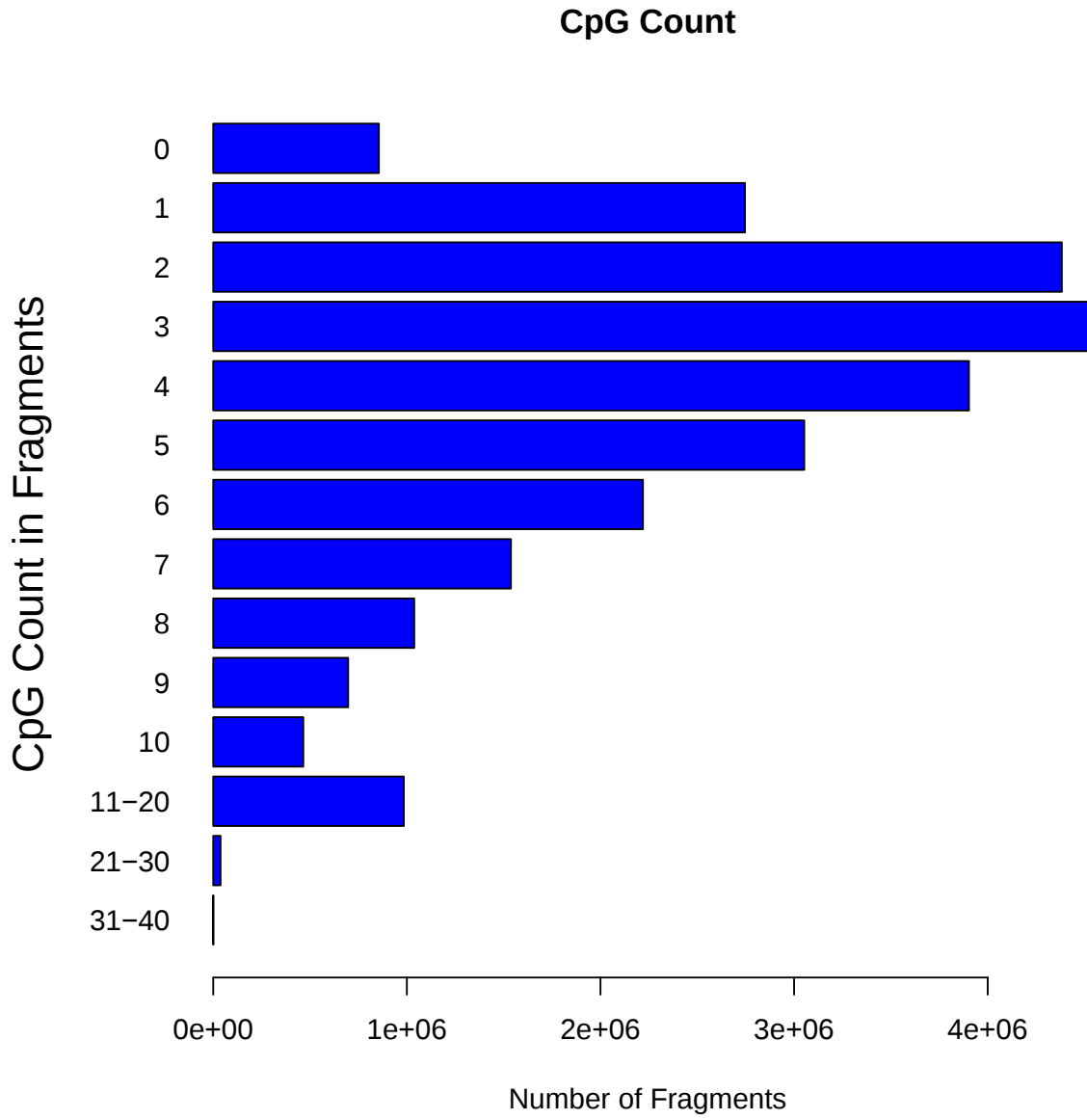
4.1 CpG coverage

Range	Count
0	10359282
1	4000198
2	2529074
3	1878227
4	1482529
5	1208516
6	997482
7	833112
8	698864
9	587132
10	494434
11-20	2288469
21-30	566160
31-40	180749
41-50	67112
51-100	44631
101-200	1338
201-300	139



4.2 CpG count

Range	Count
0	855679
1	2746447
2	4382794
3	4533365
4	3903261
5	3052406
6	2219492
7	1537655
8	1038224
9	697038
10	465099
11-20	984436
21-30	37776
31-40	382



5 CpG enrichment

$$\begin{aligned}
 \text{CpG enrichment} &= \frac{\text{CpG count in fragments} / \text{total base of fragments}}{\text{CpG count in genome} / \text{total base of genome}} \\
 &= \frac{113067343 / 3968107676}{28217448 / 3095693983}
 \end{aligned}$$

$$= 3.13$$