

P3LS_BWaseMeDip Report

methy1QA* version 0.1.6 (r040)

September 4, 2016

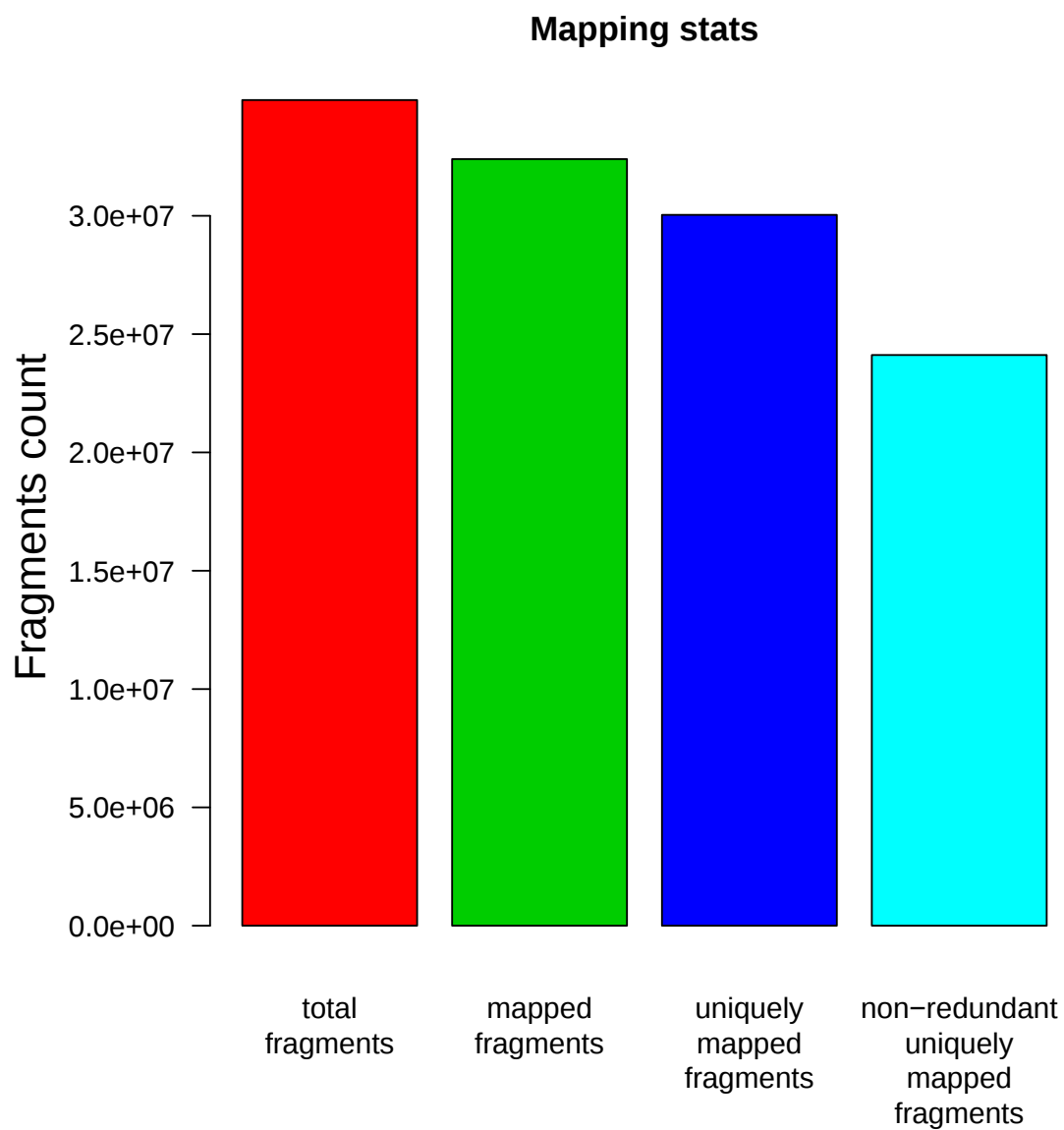
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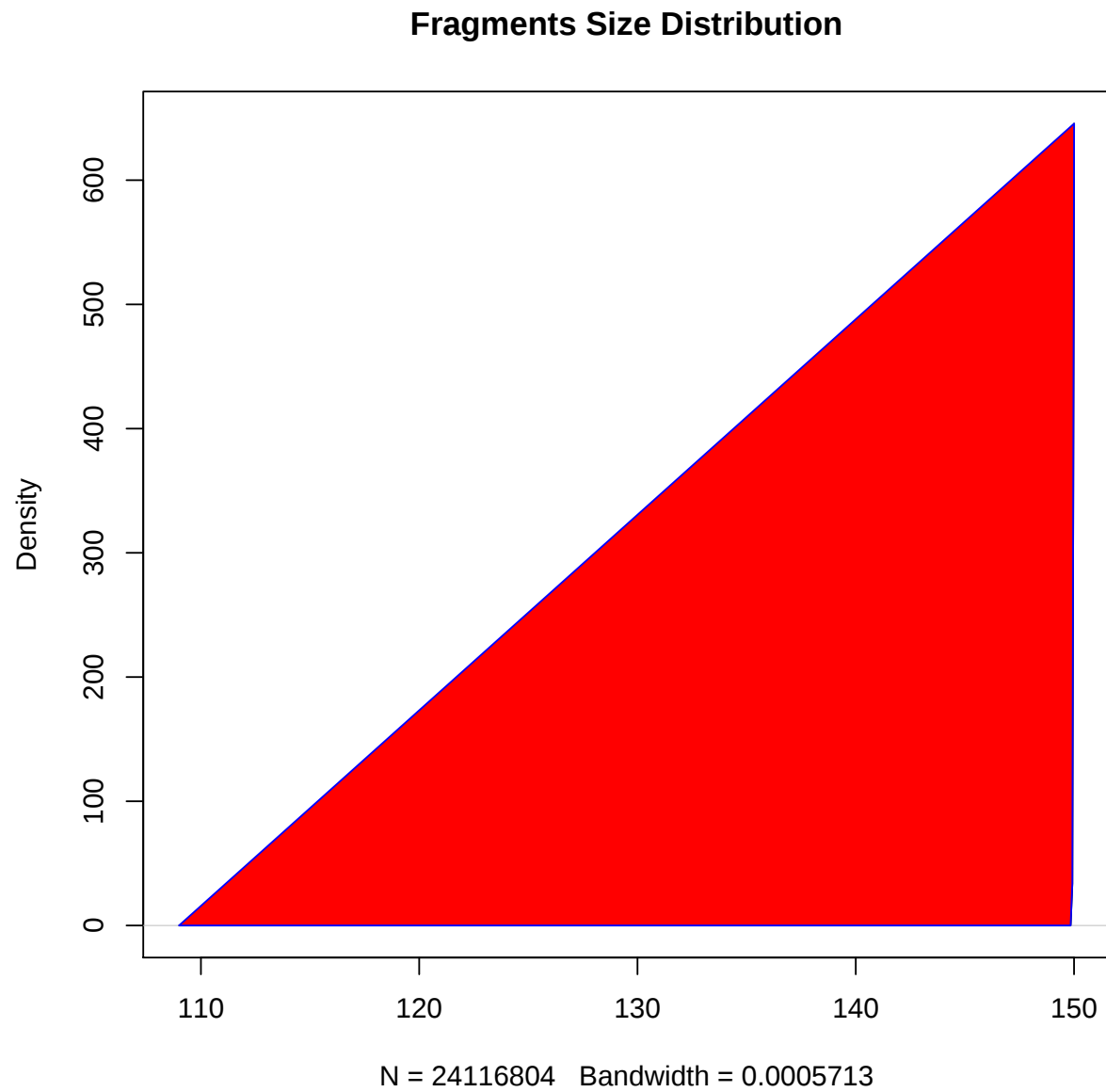
*Website: <http://methy1QA.sourceforge.net/>

1 Mapping status

total fragments	34891653
mapped fragments	32396054
uniquely mapped fragments	30039915
non-redundant uniquely mapped fragments	24116804

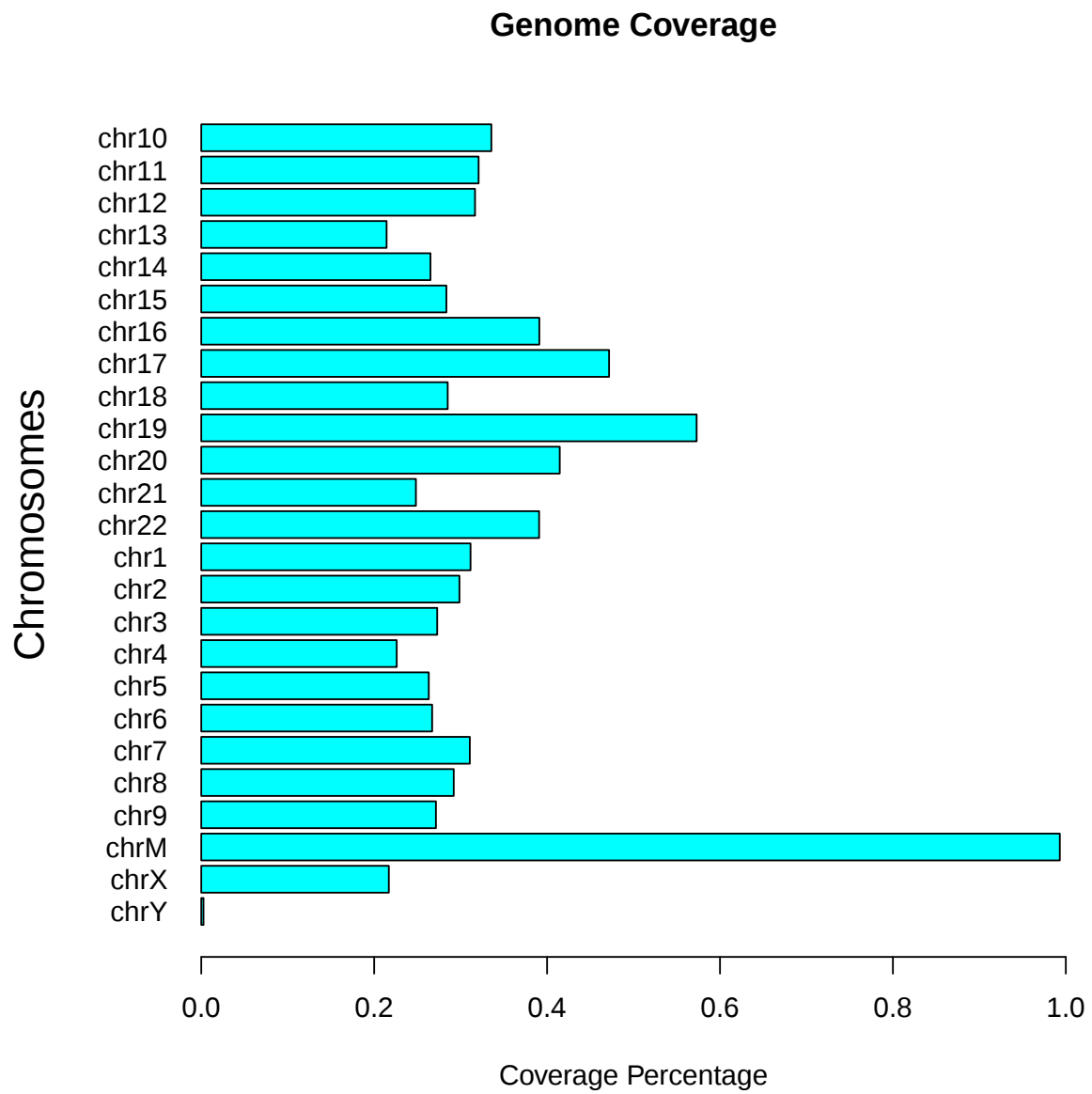


2 Fragments size distribution



3 Genomic coverage

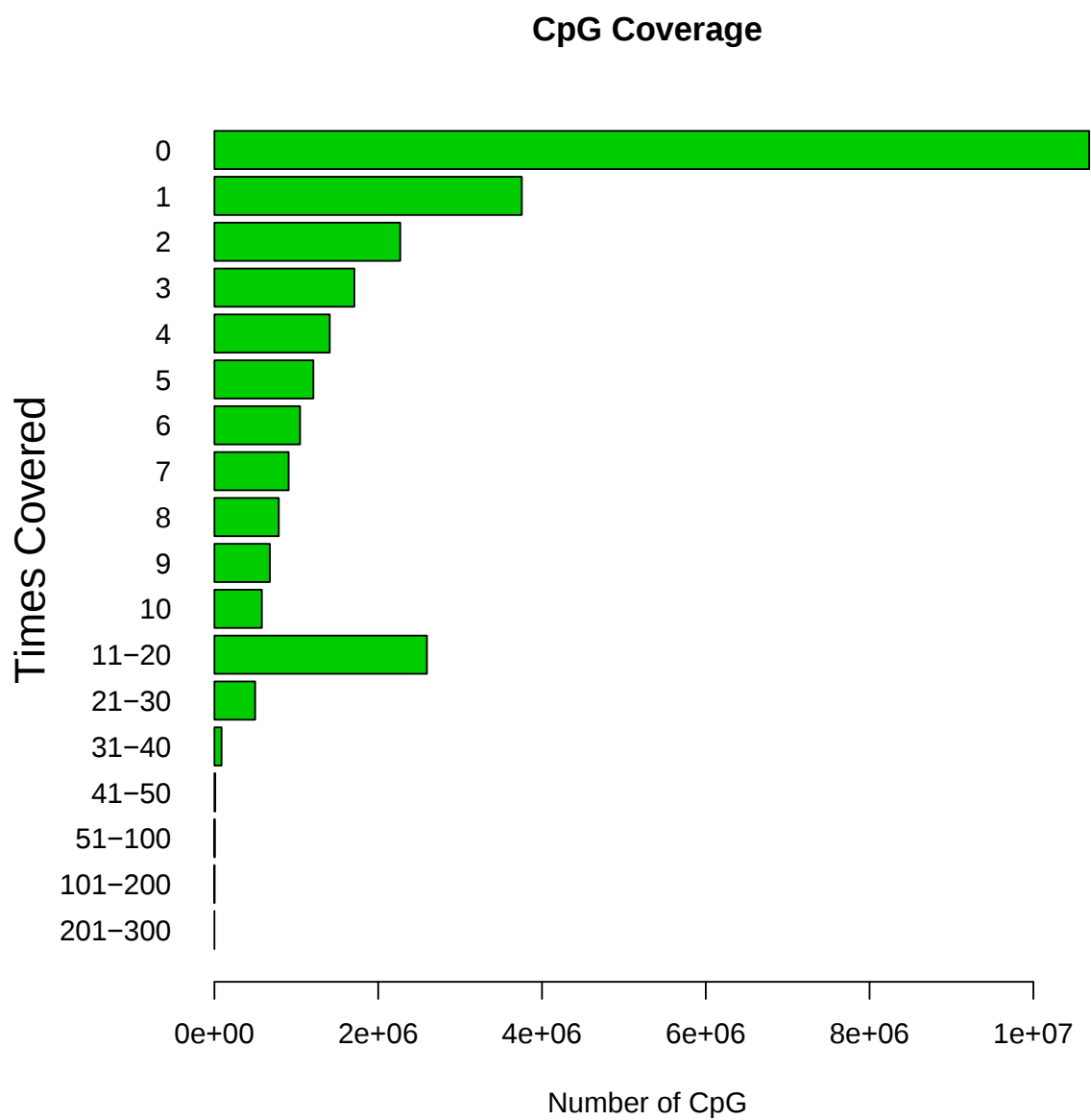
chromosome	total base	covered base	covered percentage
chr10	135534747	45477845	33.55%
chr11	135006516	43308461	32.08%
chr12	133851895	42383657	31.66%
chr13	115169878	24689328	21.44%
chr14	107349540	28459827	26.51%
chr15	102531392	29068264	28.35%
chr16	90354753	35330072	39.10%
chr17	81195210	38300727	47.17%
chr18	78077248	22254576	28.50%
chr19	59128983	33879894	57.30%
chr20	63025520	26132843	41.46%
chr21	48129895	11950073	24.83%
chr22	51304566	20048985	39.08%
chr1	249250621	77631166	31.15%
chr2	243199373	72621754	29.86%
chr3	198022430	54039598	27.29%
chr4	191154276	43216250	22.61%
chr5	180915260	47610713	26.32%
chr6	171115067	45694906	26.70%
chr7	159138663	49431500	31.06%
chr8	146364022	42738891	29.20%
chr9	141213431	38327482	27.14%
chrM	16571	16456	99.31%
chrX	155270560	33685526	21.69%
chrY	59373566	153949	0.26%
Whole Genome	3095693983	906452743	29.28%



4 CpG status

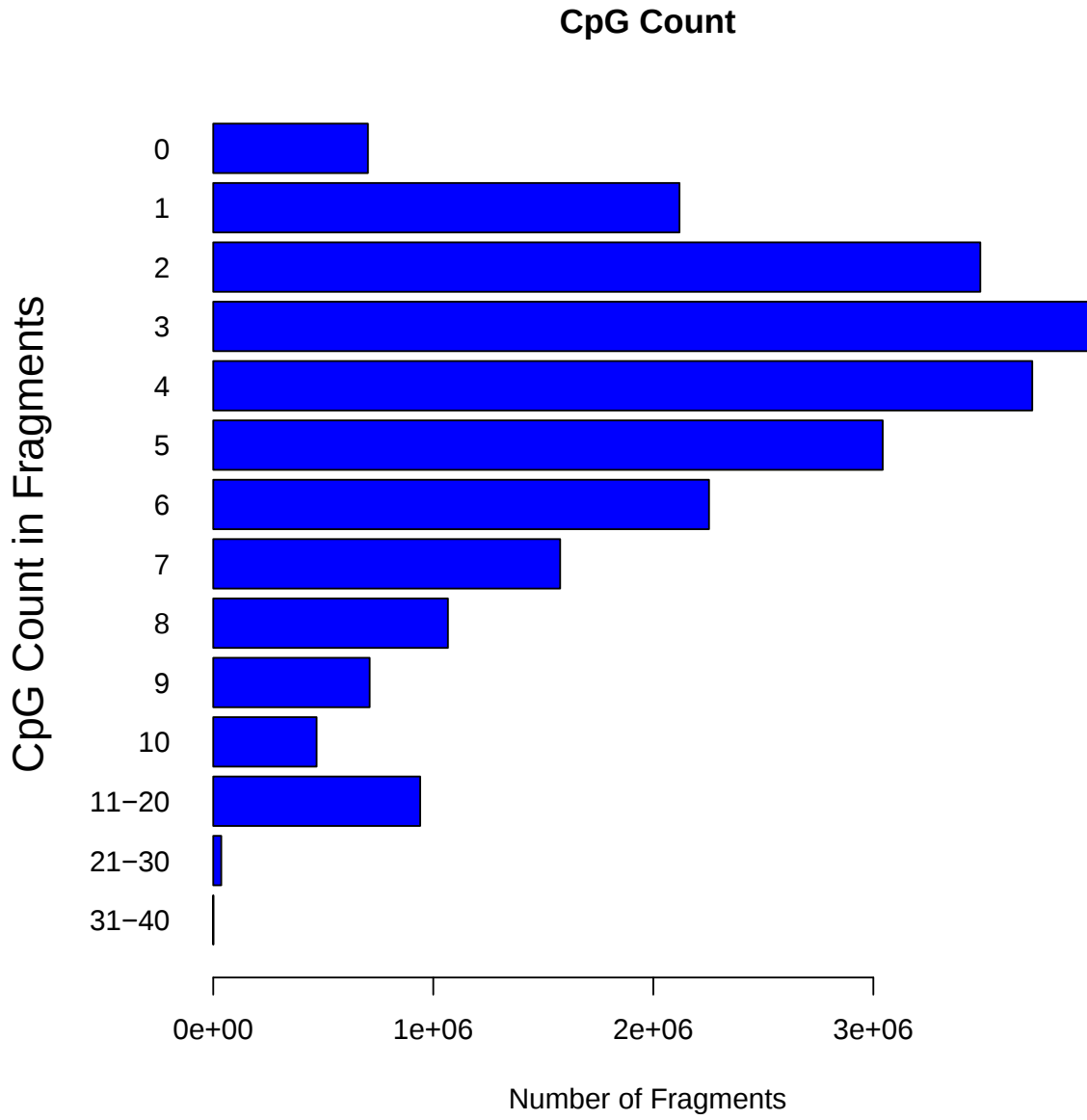
4.1 CpG coverage

Range	Count
0	10682034
1	3753621
2	2268789
3	1708741
4	1408027
5	1208440
6	1045595
7	906461
8	785829
9	676998
10	579144
11-20	2595017
21-30	497026
31-40	87068
41-50	10114
51-100	3748
101-200	706
201-300	90



4.2 CpG count

Range	Count
0	703038
1	2118974
2	3486211
3	3989214
4	3722298
5	3042600
6	2253115
7	1576663
8	1066589
9	710974
10	469851
11-20	940526
21-30	36406
31-40	345



5 CpG enrichment

$$\begin{aligned}
 \text{CpG enrichment} &= \frac{\text{CpG count in fragments} / \text{total base of fragments}}{\text{CpG count in genome} / \text{total base of genome}} \\
 &= \frac{108436417 / 3617520285}{28217448 / 3095693983}
 \end{aligned}$$

$$= 3.29$$