

P2LS_BWaseMeDip Report

methy1QA* version 0.1.6 (r040)

September 3, 2016

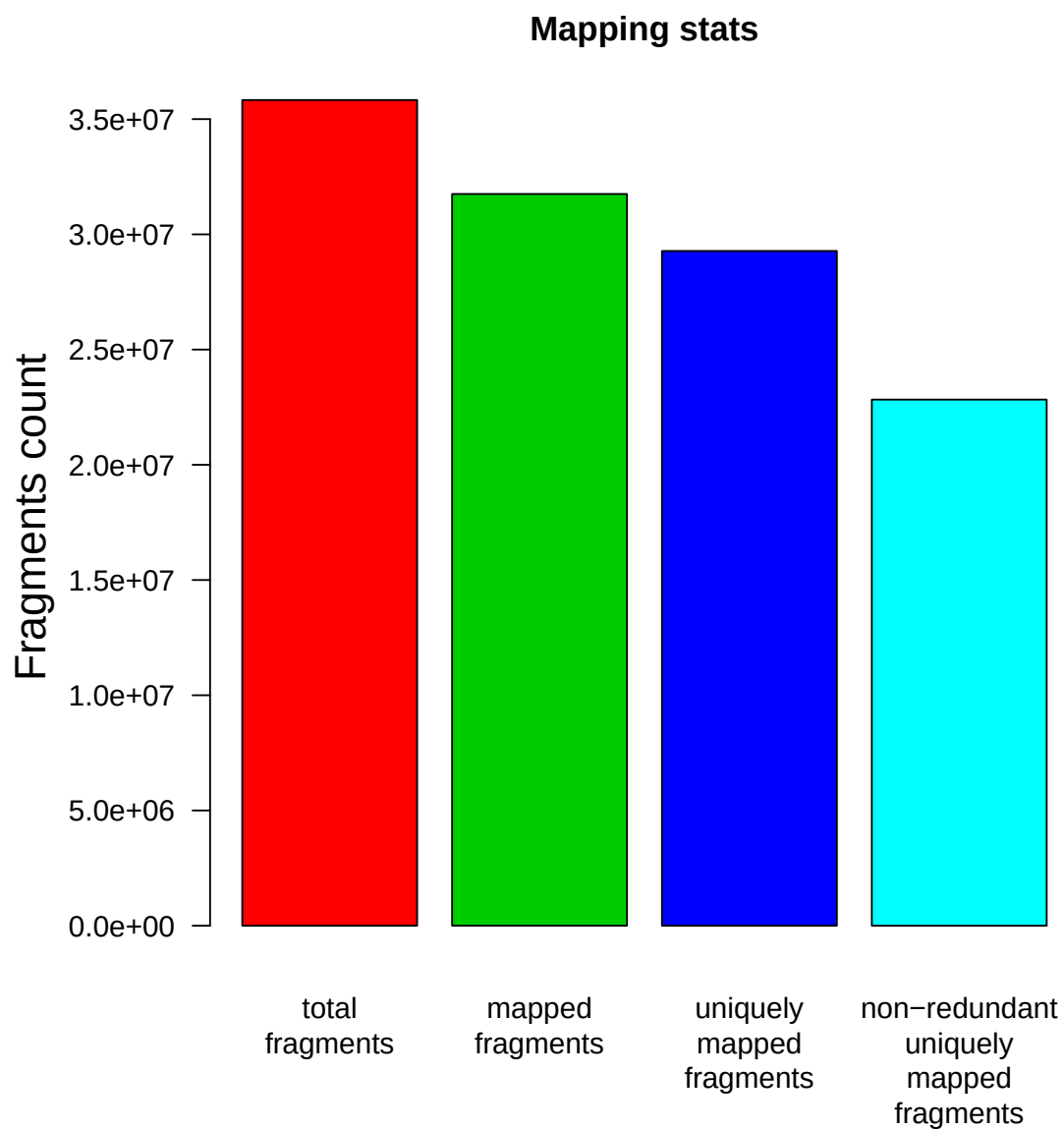
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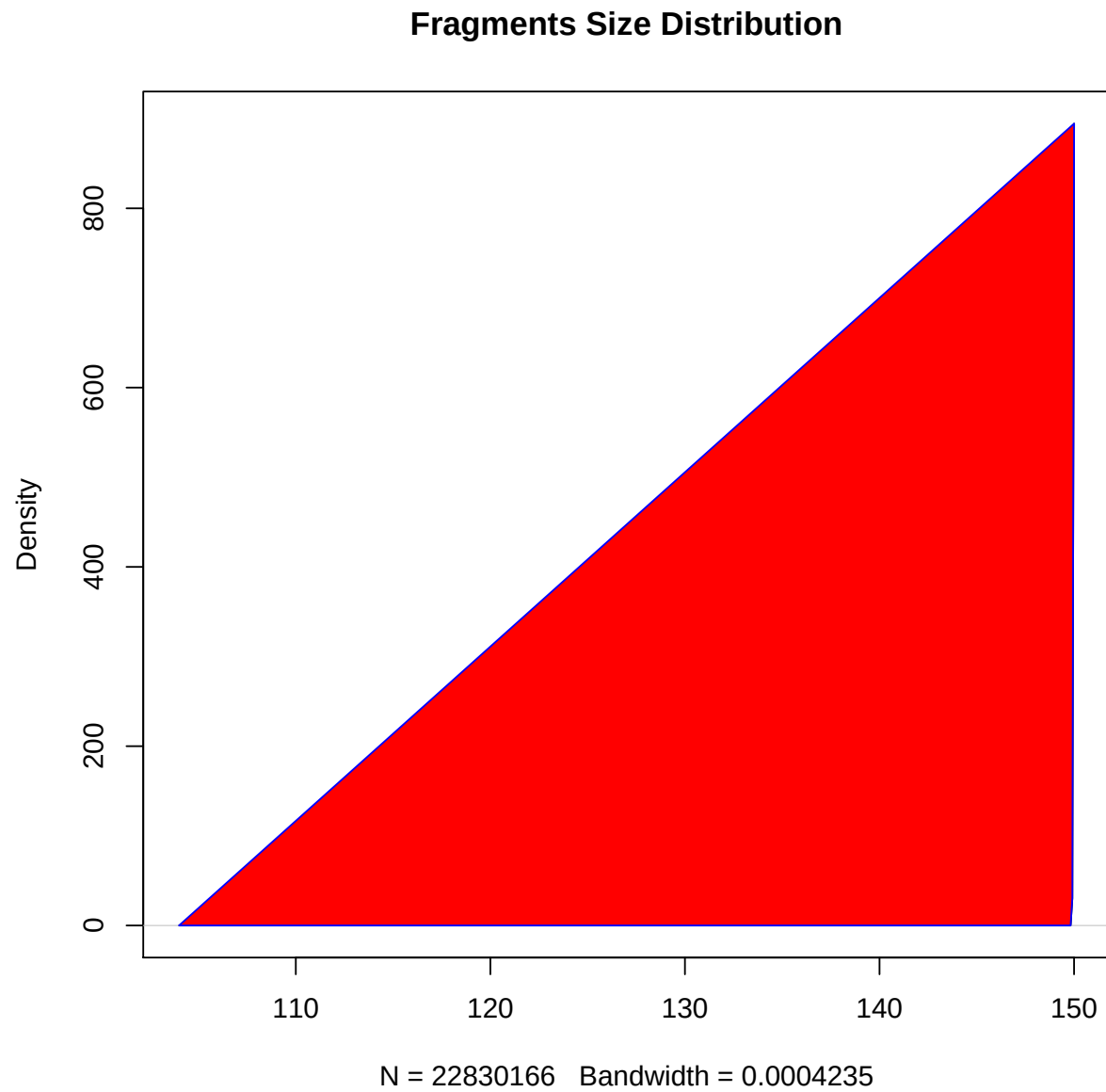
*Website: <http://methy1QA.sourceforge.net/>

1 Mapping status

total fragments	35828028
mapped fragments	31751666
uniquely mapped fragments	29278542
non-redundant uniquely mapped fragments	22830166

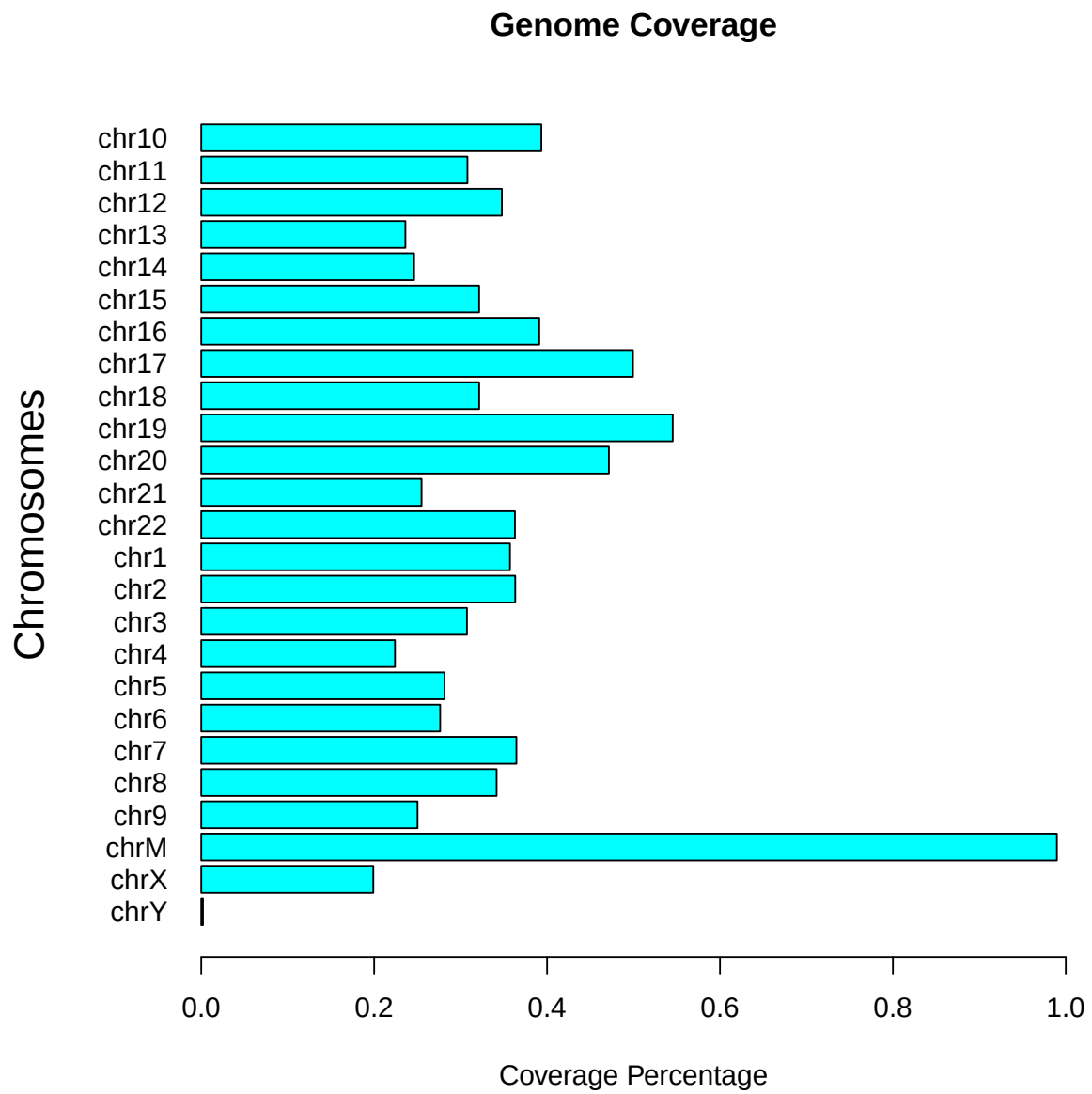


2 Fragments size distribution



3 Genomic coverage

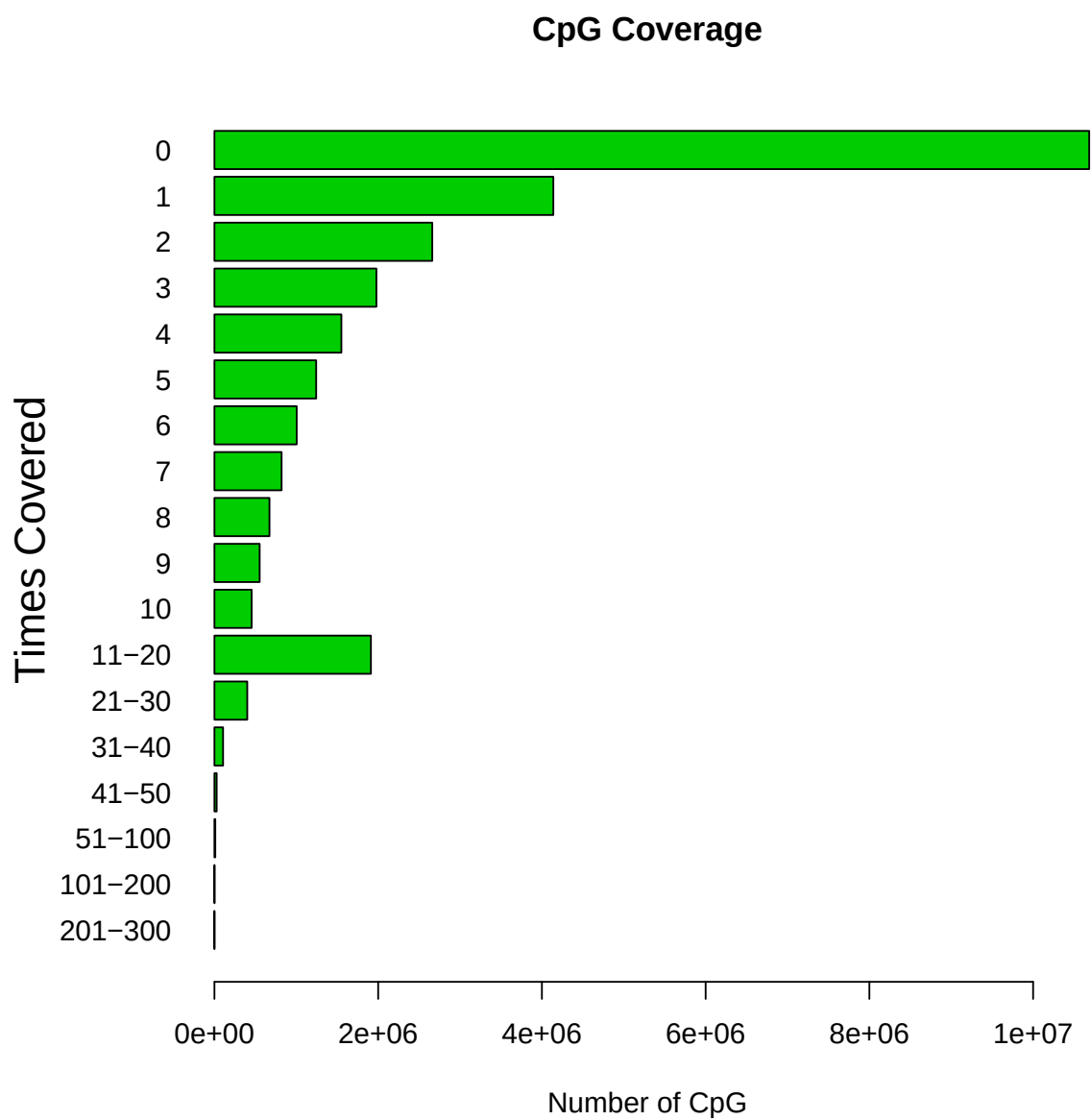
chromosome	total base	covered base	covered percentage
chr10	135534747	53311947	39.33%
chr11	135006516	41572539	30.79%
chr12	133851895	46539451	34.77%
chr13	115169878	27195872	23.61%
chr14	107349540	26430402	24.62%
chr15	102531392	32953325	32.14%
chr16	90354753	35327641	39.10%
chr17	81195210	40544342	49.93%
chr18	78077248	25098691	32.15%
chr19	59128983	32244801	54.53%
chr20	63025520	29716964	47.15%
chr21	48129895	12263750	25.48%
chr22	51304566	18614397	36.28%
chr1	249250621	89007301	35.71%
chr2	243199373	88323903	36.32%
chr3	198022430	60857864	30.73%
chr4	191154276	42835153	22.41%
chr5	180915260	50915174	28.14%
chr6	171115067	47285733	27.63%
chr7	159138663	58010947	36.45%
chr8	146364022	50000323	34.16%
chr9	141213431	35325724	25.02%
chrM	16571	16400	98.97%
chrX	155270560	30901912	19.90%
chrY	59373566	118319	0.20%
Whole Genome	3095693983	975412875	31.51%



4 CpG status

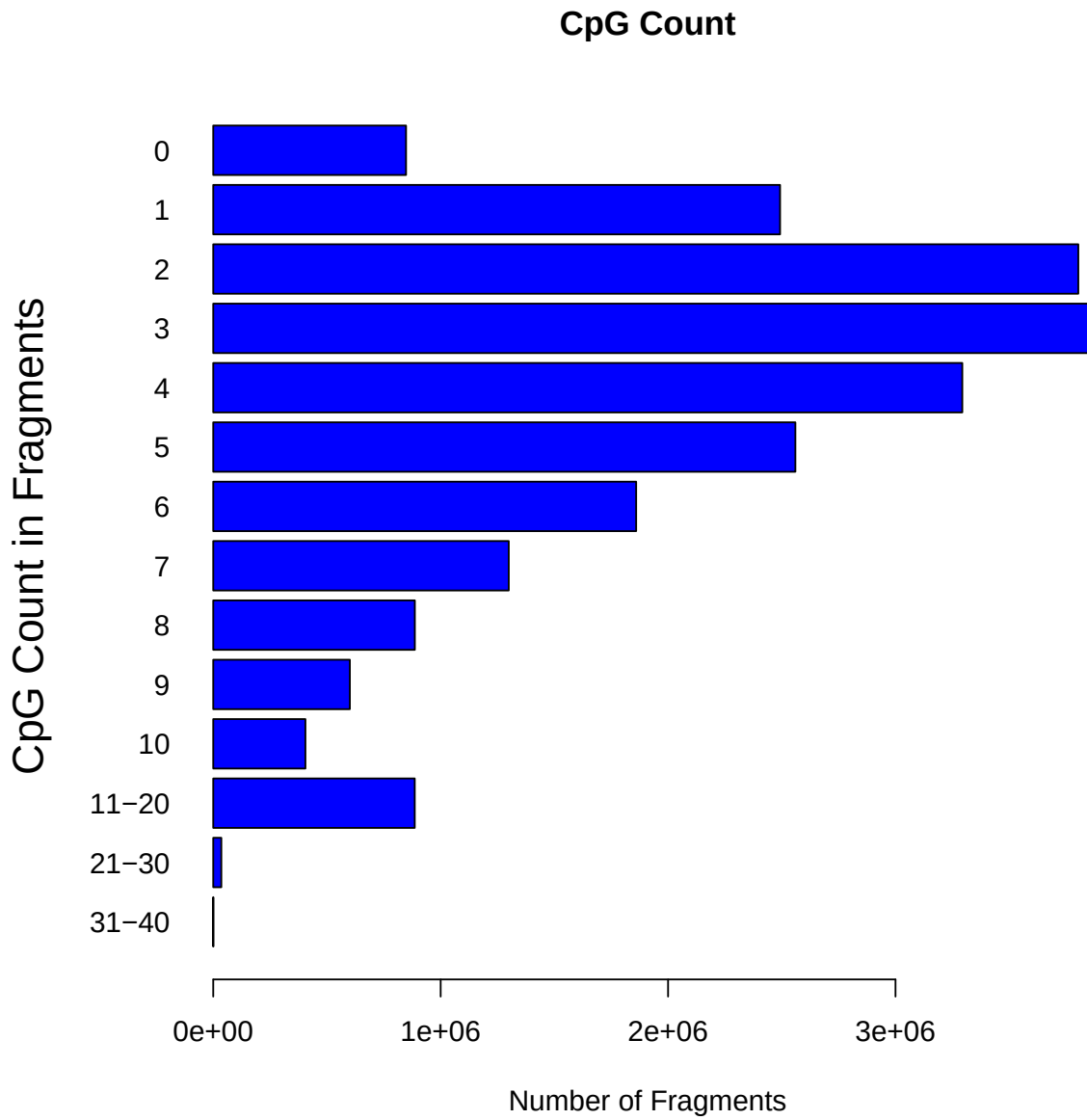
4.1 CpG coverage

Range	Count
0	10685221
1	4139638
2	2660897
3	1978068
4	1550640
5	1242568
6	1004657
7	820267
8	672230
9	552320
10	454453
11-20	1911357
21-30	400908
31-40	105486
41-50	27249
51-100	10322
101-200	968
201-300	199



4.2 CpG count

Range	Count
0	847764
1	2492333
2	3803787
3	3859503
4	3293673
5	2559683
6	1859622
7	1299385
8	886500
9	600643
10	405274
11-20	886118
21-30	35564
31-40	317



5 CpG enrichment

$$\begin{aligned}
 \text{CpG enrichment} &= \frac{\text{CpG count in fragments} / \text{total base of fragments}}{\text{CpG count in genome} / \text{total base of genome}} \\
 &= \frac{96919844 / 3424524761}{28217448 / 3095693983}
 \end{aligned}$$

$$= 3.10$$