

P1LC_BWaseMeDip Report

methy1QA* version 0.1.6 (r040)

September 3, 2016

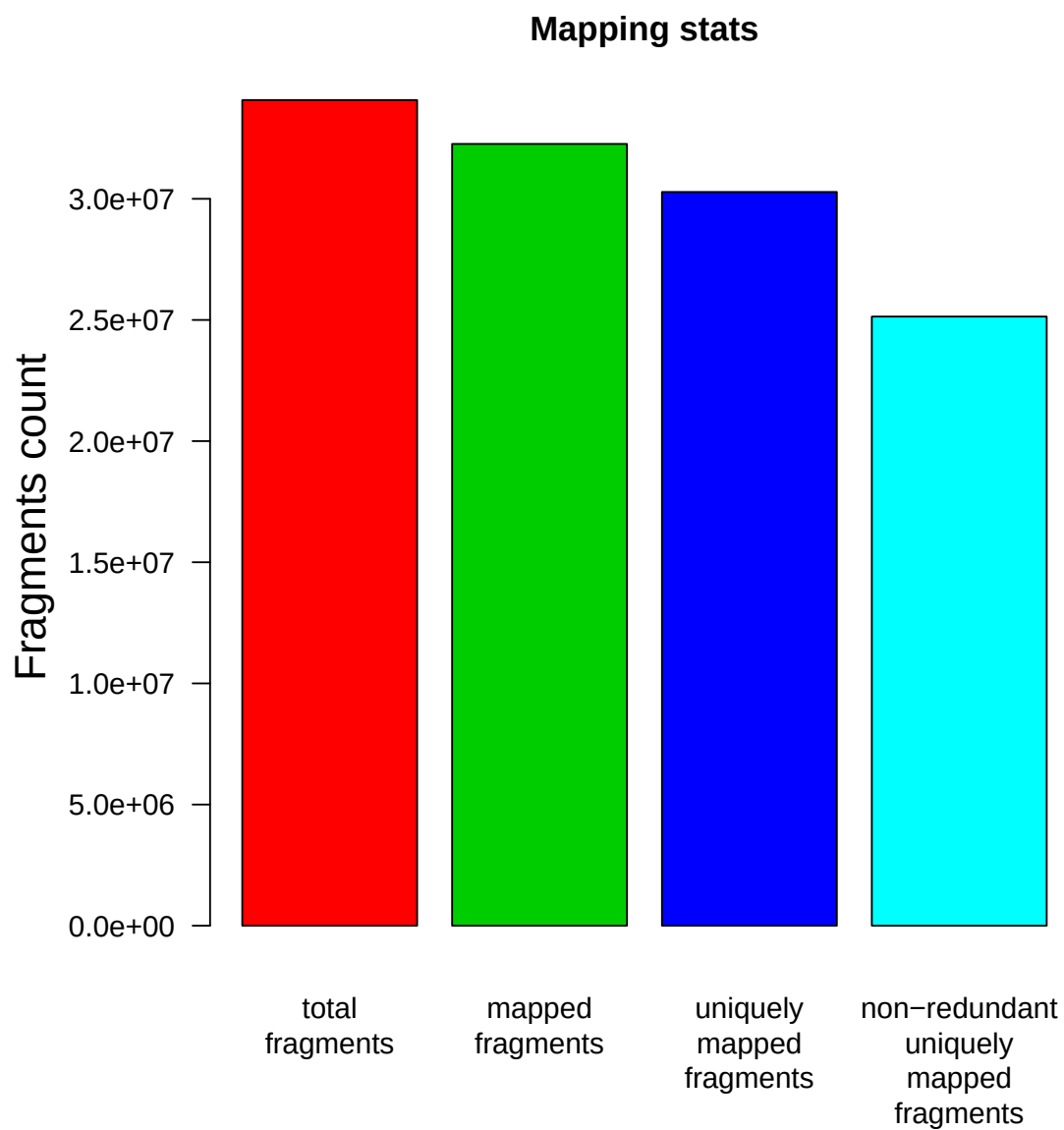
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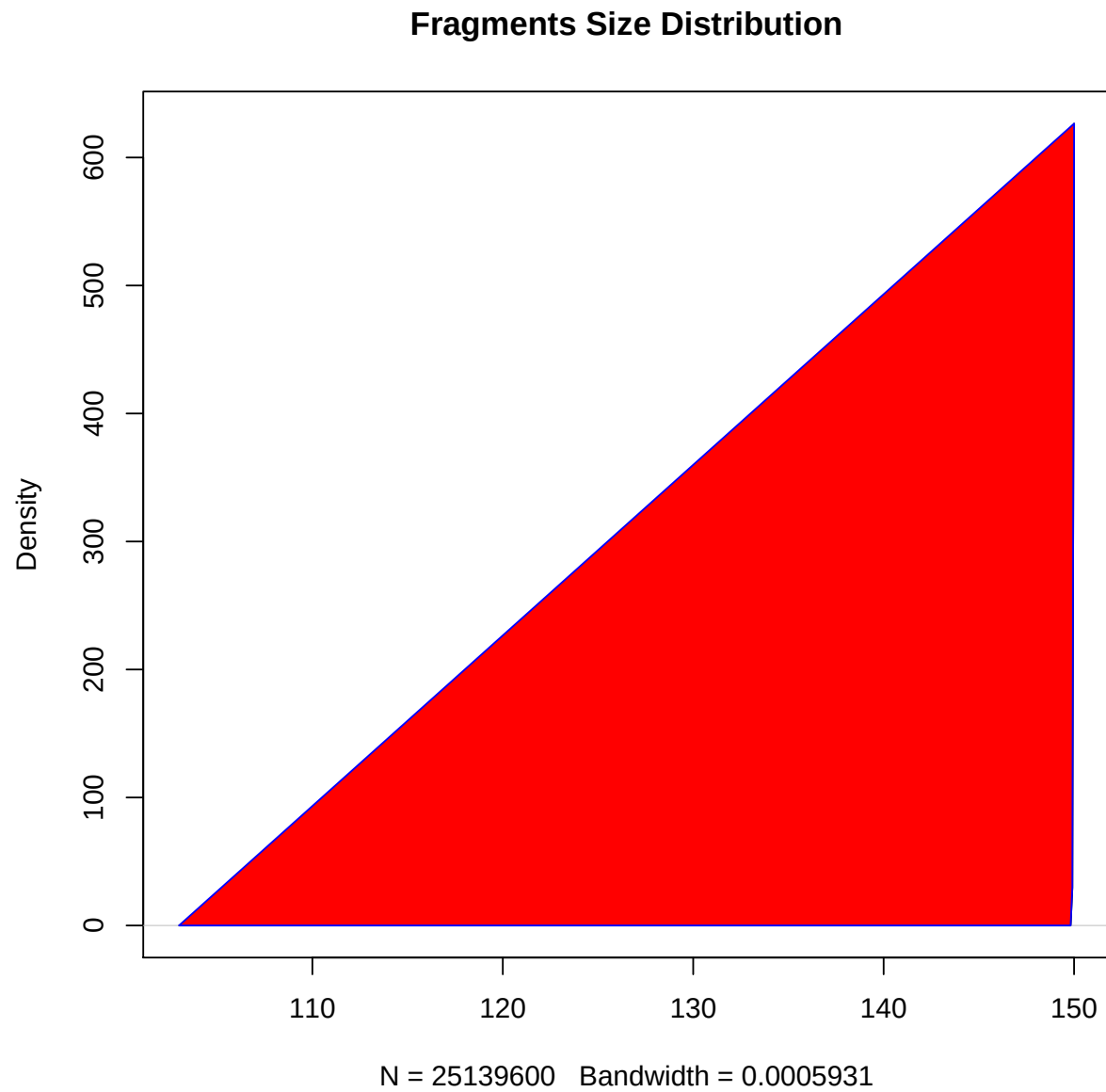
*Website: <http://methy1QA.sourceforge.net/>

1 Mapping status

total fragments	34076384
mapped fragments	32265078
uniquely mapped fragments	30282949
non-redundant uniquely mapped fragments	25139600

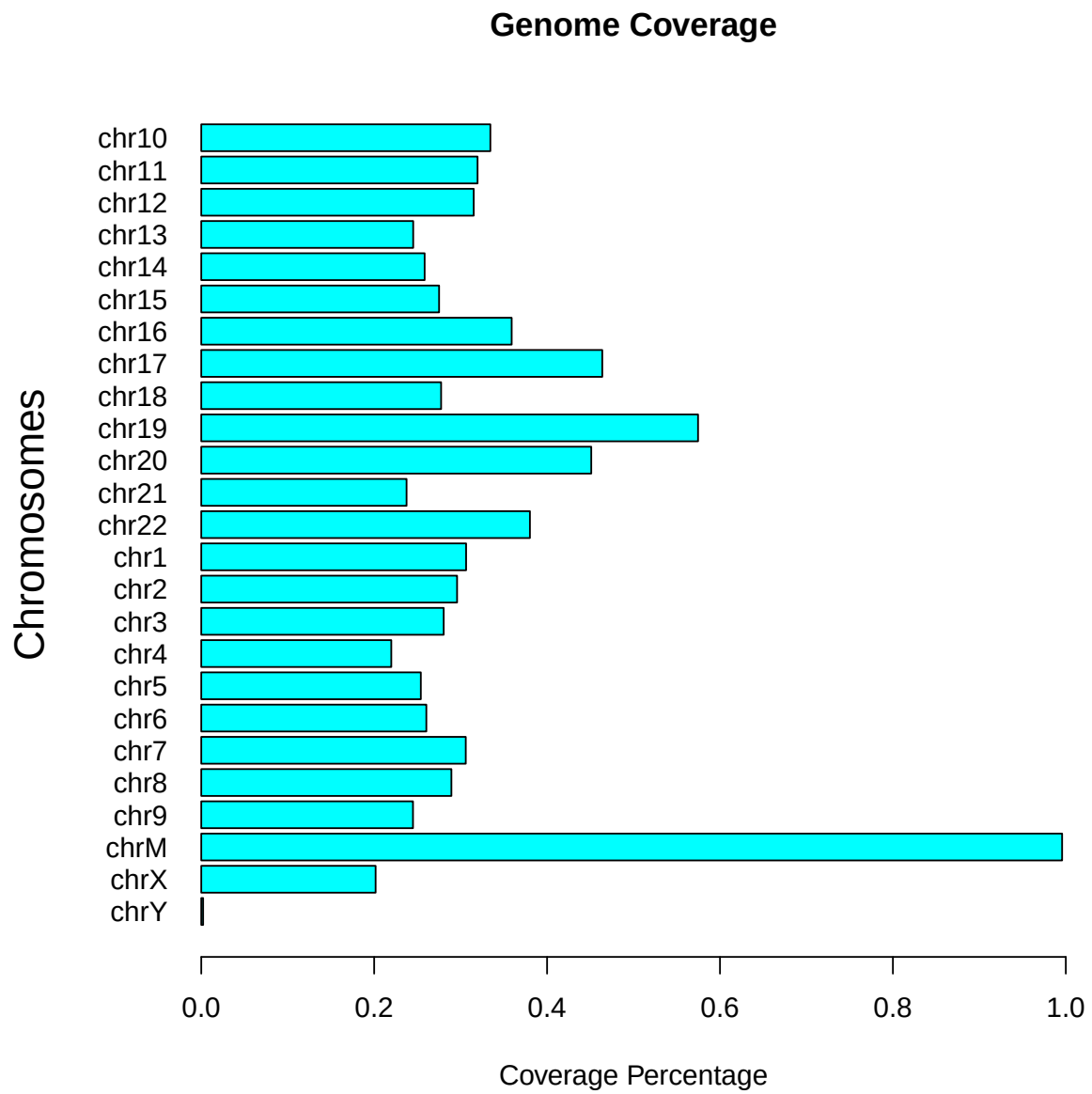


2 Fragments size distribution



3 Genomic coverage

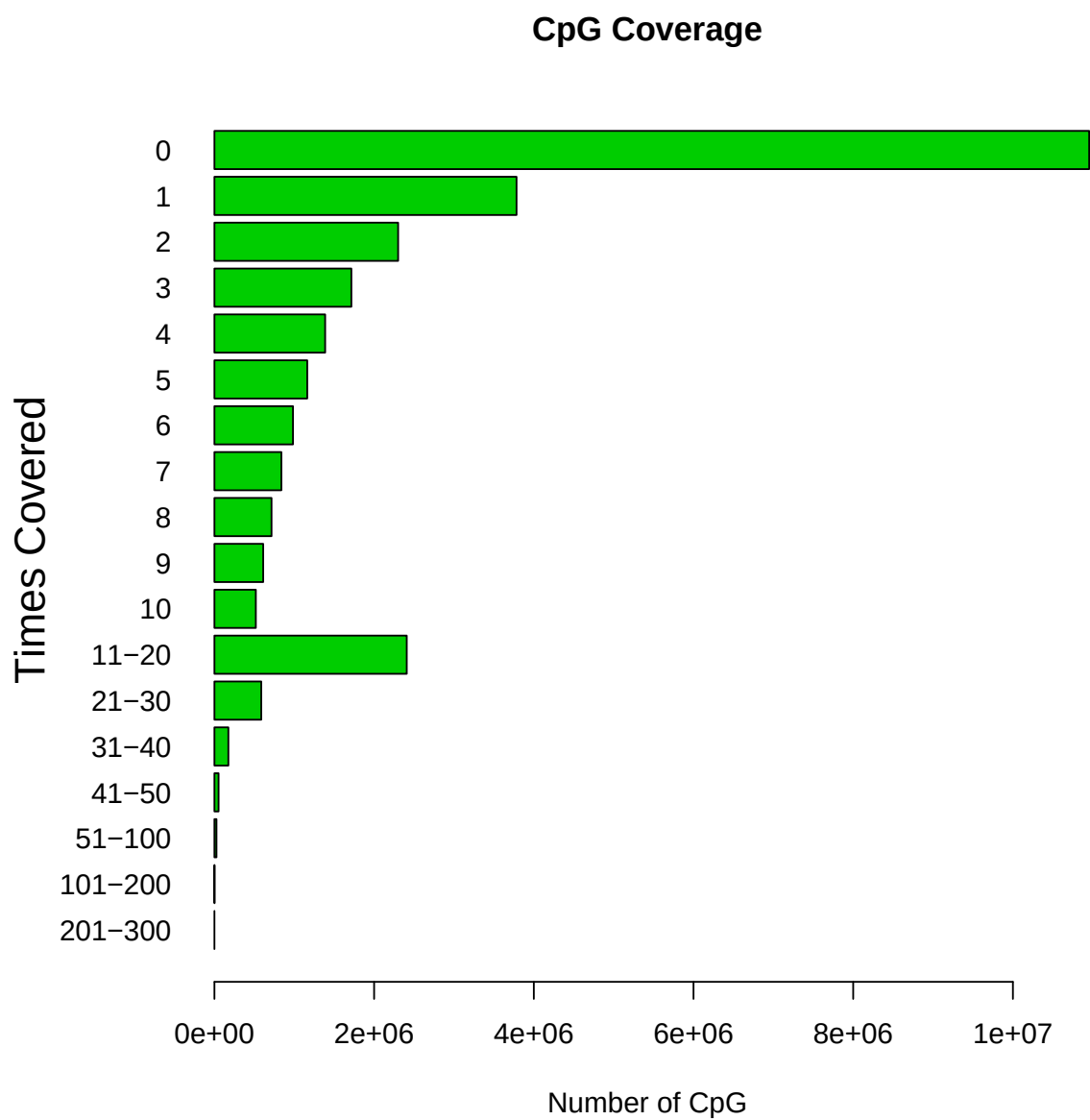
chromosome	total base	covered base	covered percentage
chr10	135534747	45319395	33.44%
chr11	135006516	43146575	31.96%
chr12	133851895	42181718	31.51%
chr13	115169878	28230741	24.51%
chr14	107349540	27736242	25.84%
chr15	102531392	28205783	27.51%
chr16	90354753	32439762	35.90%
chr17	81195210	37659798	46.38%
chr18	78077248	21660333	27.74%
chr19	59128983	33975713	57.46%
chr20	63025520	28429645	45.11%
chr21	48129895	11428433	23.74%
chr22	51304566	19502457	38.01%
chr1	249250621	76351408	30.63%
chr2	243199373	71958727	29.59%
chr3	198022430	55527176	28.04%
chr4	191154276	42015774	21.98%
chr5	180915260	45946152	25.40%
chr6	171115067	44545892	26.03%
chr7	159138663	48686039	30.59%
chr8	146364022	42347570	28.93%
chr9	141213431	34582846	24.49%
chrM	16571	16500	99.57%
chrX	155270560	31311765	20.17%
chrY	59373566	128260	0.22%
Whole Genome	3095693983	893334704	28.86%



4 CpG status

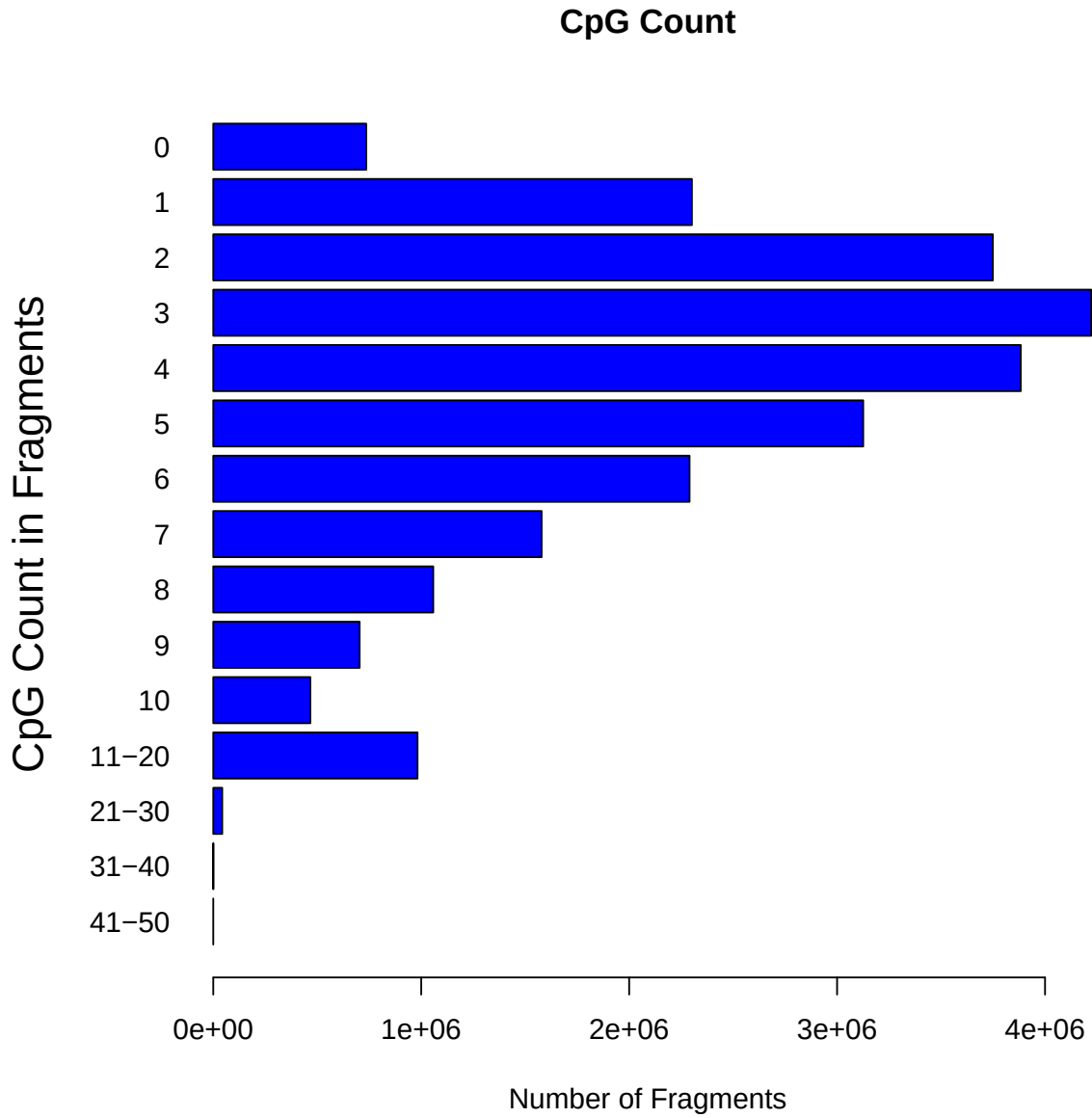
4.1 CpG coverage

Range	Count
0	10955159
1	3783509
2	2300578
3	1714839
4	1386577
5	1162362
6	983755
7	838375
8	715189
9	610904
10	518605
11-20	2408479
21-30	586471
31-40	174377
41-50	51755
51-100	25547
101-200	928
201-300	39



4.2 CpG count

Range	Count
0	735343
1	2301677
2	3749055
3	4221814
4	3883118
5	3125438
6	2290359
7	1579011
8	1057872
9	703645
10	466570
11-20	982253
21-30	43088
31-40	356
41-50	1



5 CpG enrichment

$$\begin{aligned}
 \text{CpG enrichment} &= \frac{\text{CpG count in fragments} / \text{total base of fragments}}{\text{CpG count in genome} / \text{total base of genome}} \\
 &= \frac{111769758 / 3770939673}{28217448 / 3095693983}
 \end{aligned}$$

$$= 3.25$$