

# FastQC Report

aln.bam

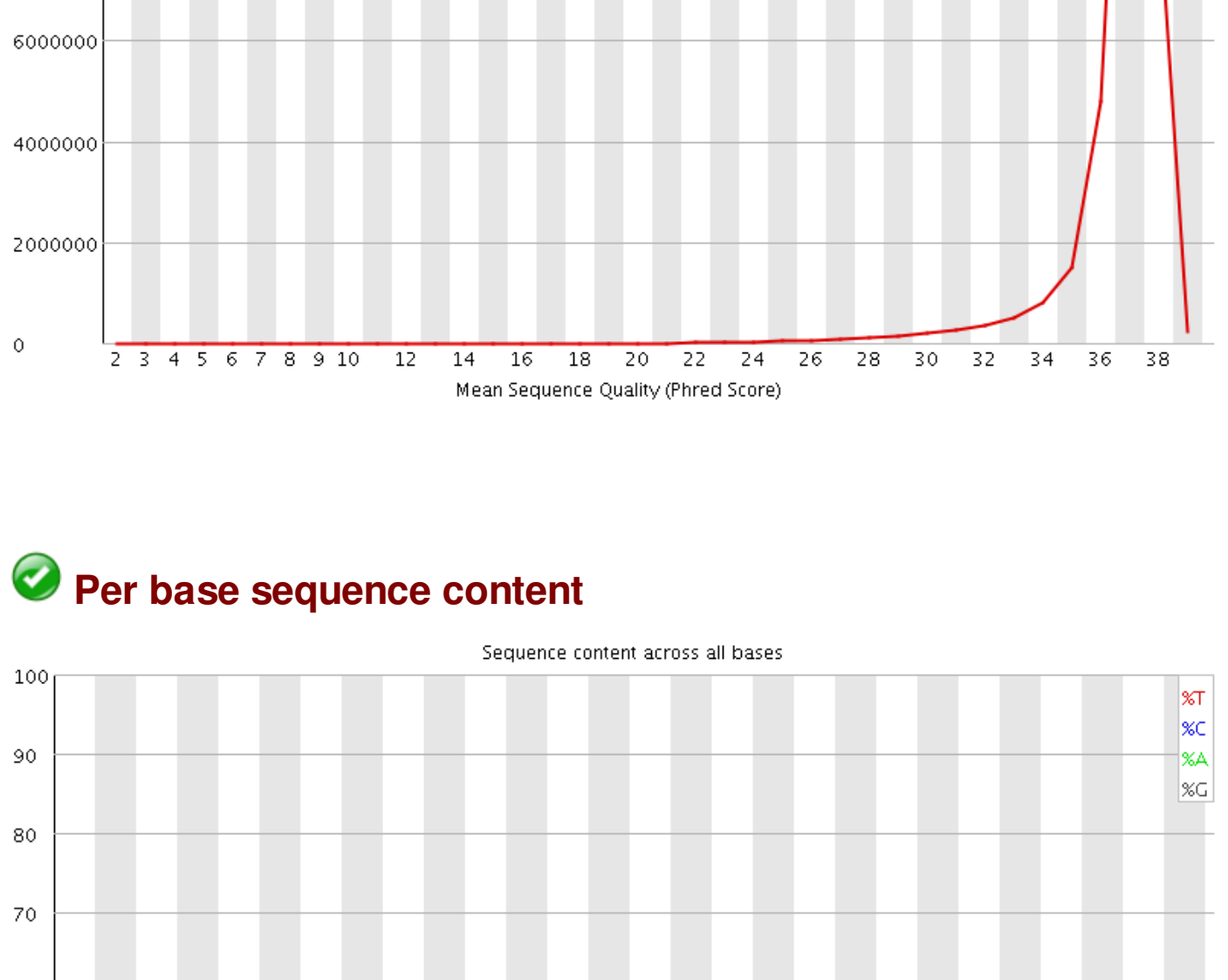
## Summary

- Basic Statistics
- Per base sequence quality
- Per sequence quality scores
- Per base sequence content
- Per base GC content
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## Basic Statistics

Measure	Value
Filename	aln.bam
File type	Conventional base calls
Encoding	Sanger / Illumina 1.9
Total Sequences	34252010
Filtered Sequences	0
Sequence Length	104
%GC	49

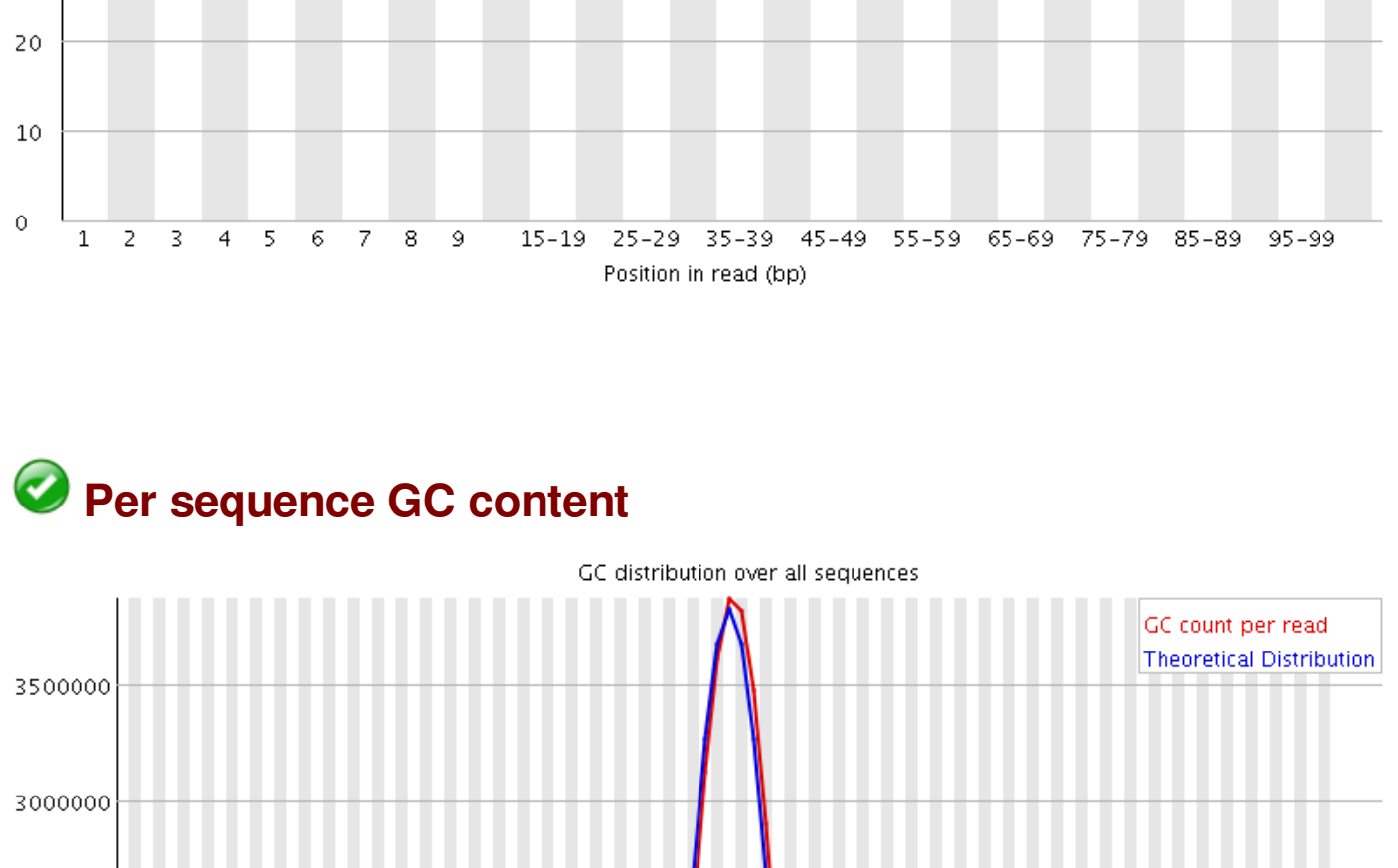
## Per base sequence quality



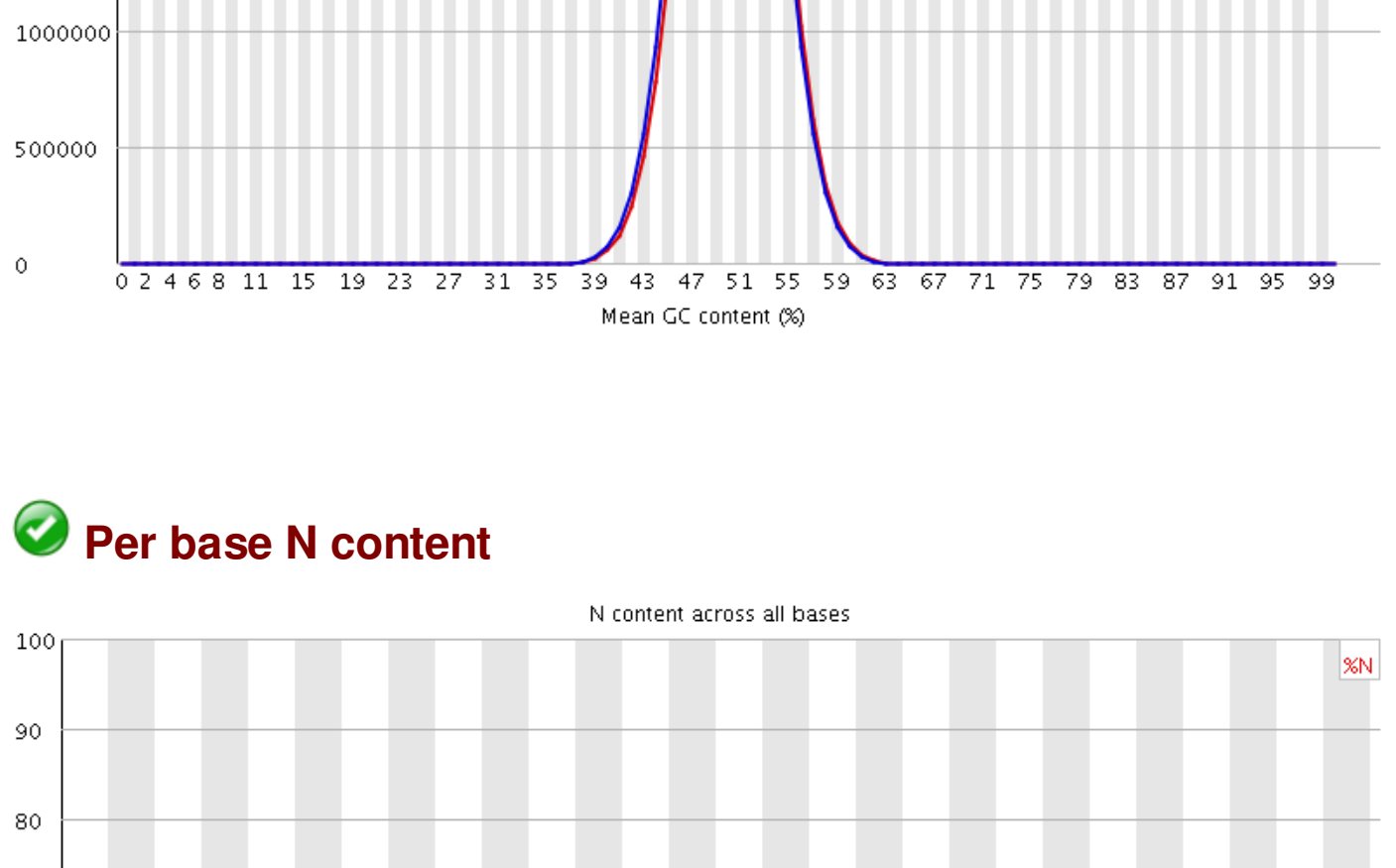
## Per sequence quality scores



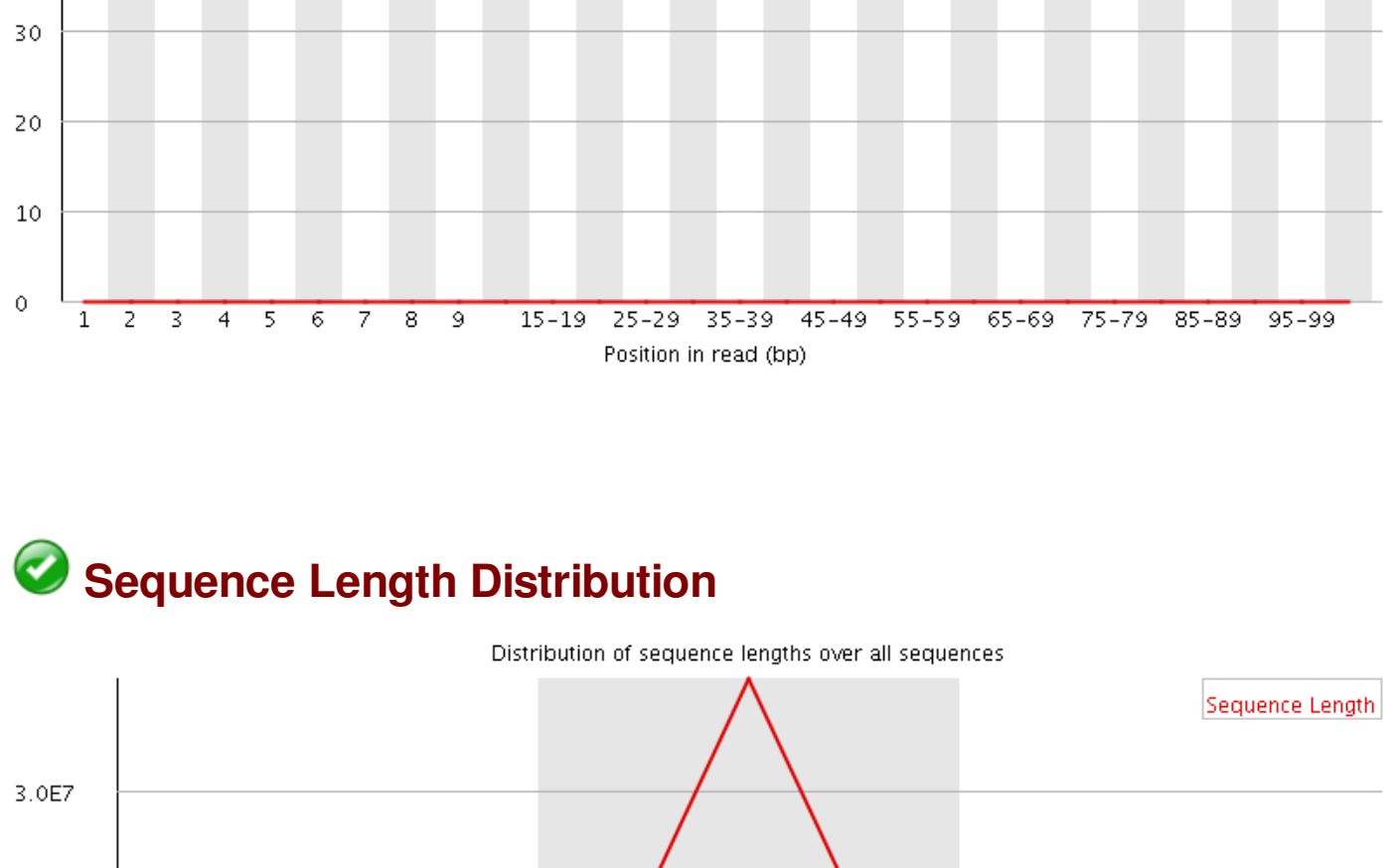
## Per base sequence content



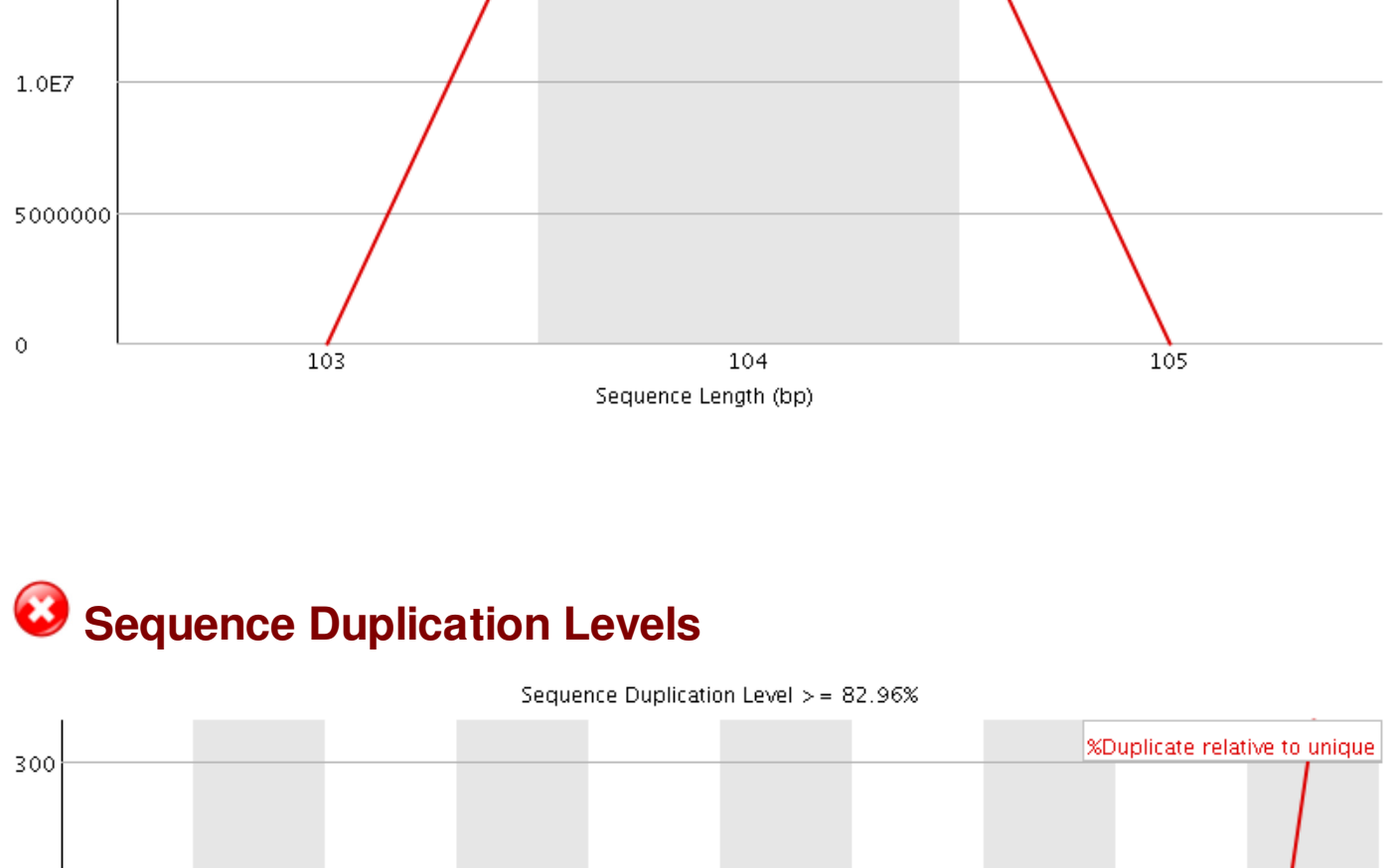
## Per base GC content



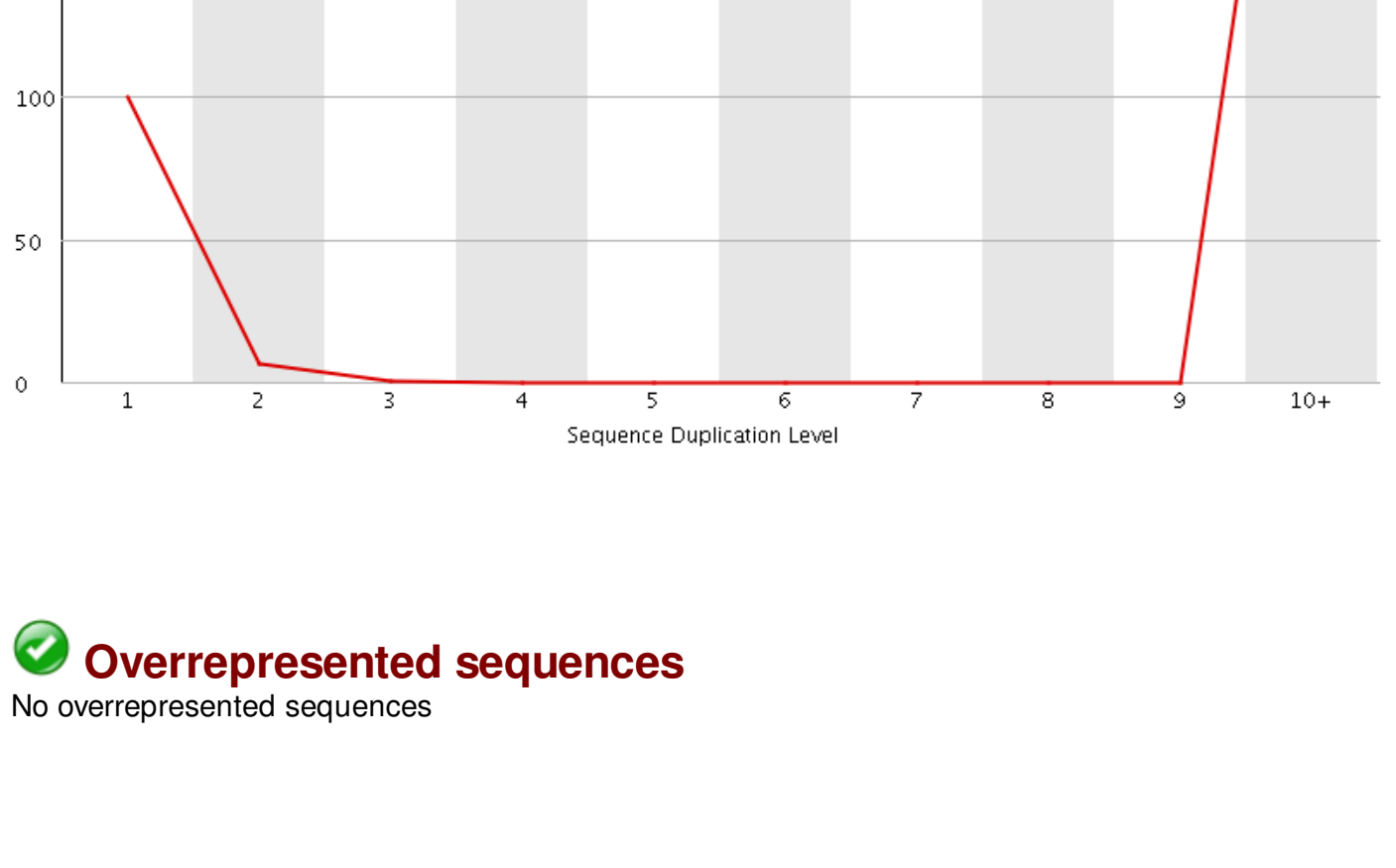
## Per sequence GC content



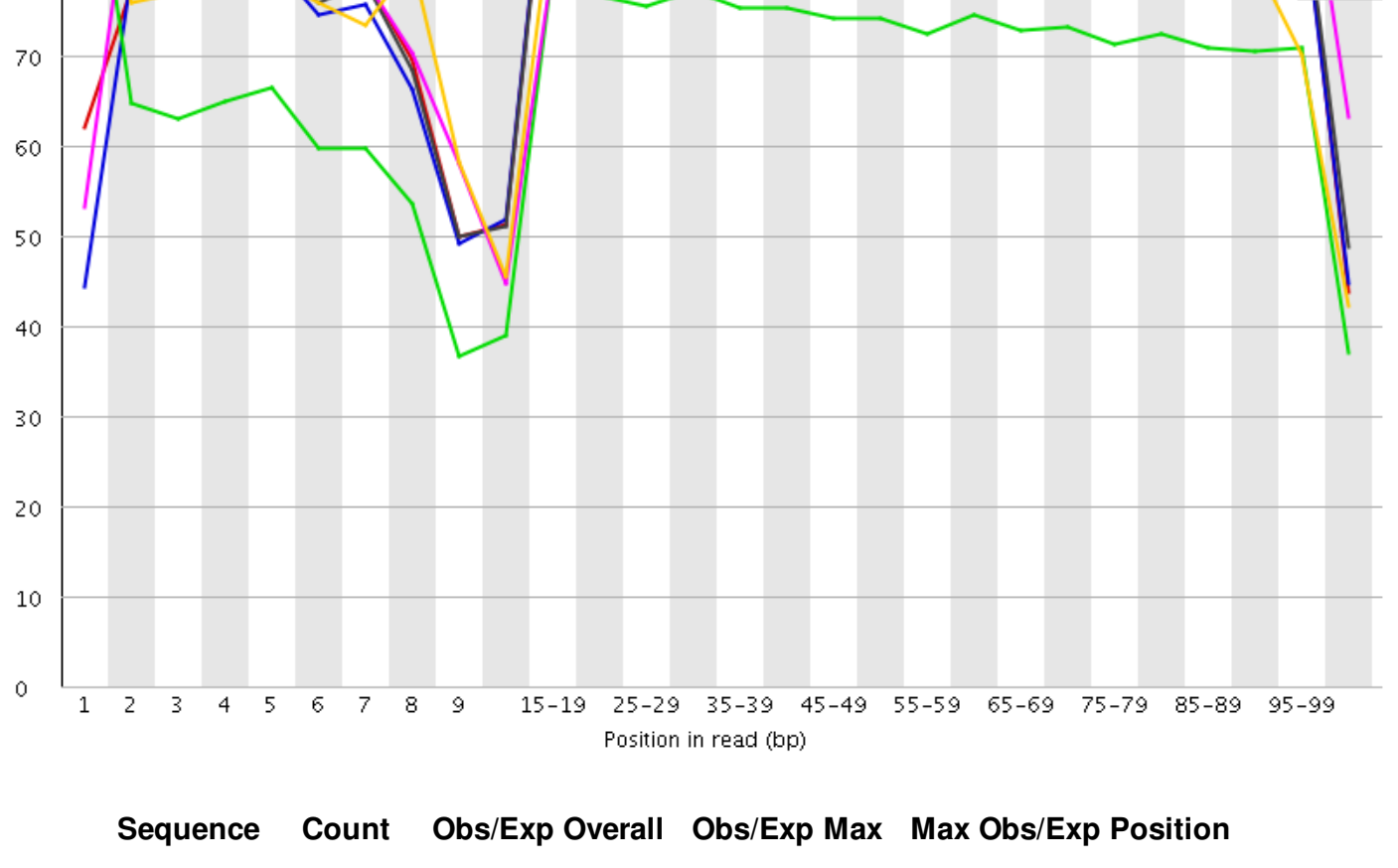
## Per base N content



## Sequence Length Distribution



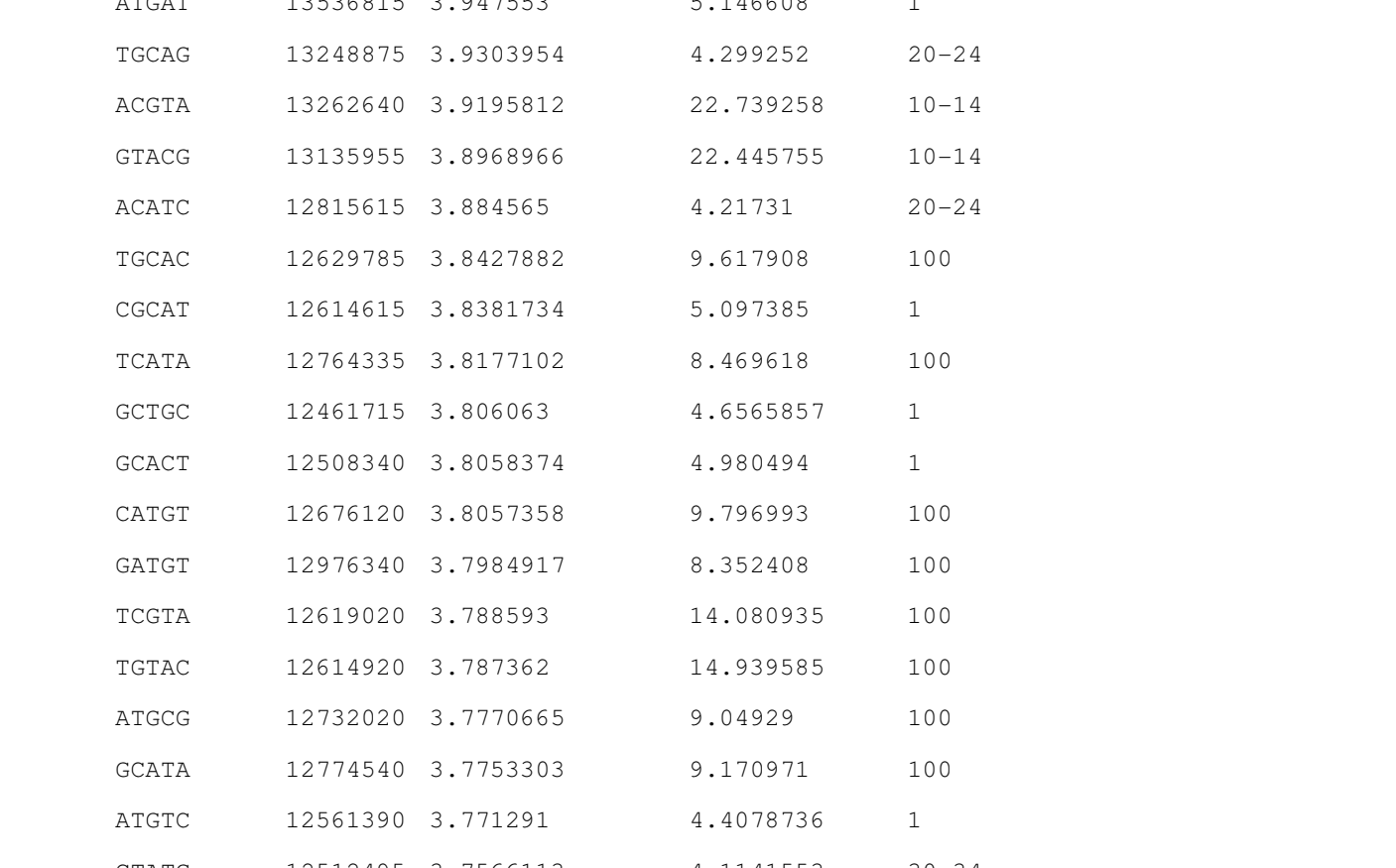
## Sequence Duplication Levels



## Overrepresented sequences

No overrepresented sequences

## Kmer Content



Sequence	Count	Obs/Exp Overall	Obs/Exp Max	Max Obs/Exp Position
TGCAT	15613835	4.6877217	5.302181	15-19
TGATG	15311720	4.658805	5.320044	15-19
ATGCA	15723265	4.6467834	6.540238	1
GCATG	15440775	4.5806417	5.189008	1
CAGCA	14257910	4.2703533	4.727092	90-94
GCATC	13702400	4.1691477	5.110117	1
CATCA	13672775	4.1443806	4.6072593	15-19
ATCAT	13836880	4.1384997	5.18818	1
TGACT	13479140	4.046826	5.664456	1
GATGC	13793910	4.026819	4.4314094	40-44
TCATG	13404445	4.0244	4.42579	20-24
TGATG	13700495	4.0104694	4.3855915	25-29
TGCTG	13727820	4.000028	4.636728	3
CGTAC	13143400	3.9990633	22.822432	10-14
CTGCA	13125045	3.9934785	4.3507915	2
TACGT	13276360	3.9859455	22.784657	10-14
CATGA	13460905	3.9778227	4.3421555	20-24
AGCAT	13369655	3.9501173	4.321	20-24
TATGC	13149175	3.947761	7.9518943	1
ATGAT	13536815	3.947553	5.146608	1
TGCAG	13284875	3.9303954	4.299252	20-24
ACGTA	13262640	3.9195812	22.739258	10-14
CTACG	13135955	3.8968966	22.445755	10-14
ACATC	12815615	3.884565	4.21731	20-24
TGCAC	12629785	3.8427882	9.617908	100
CCGAT	12614615	3.8381734	5.097385	1
TCATA	12764335	3.8171102	8.469618	100
GCTGC	12461715	3.806063	4.6565857	1
GCATC	12587095	3.8058374	4.980494	1
CGACT	12767120	3.8053758	9.756993	100
GATGT	12976340	3.7984917	8.352408	100
TGCTA	12619020	3.788593	14.080935	100
TGTAC	12614920	3.787362	14.939585	100
ATCGG	12732020	3.7770665	9.04929	100
GCATA	12774540	3.7753303	5.170971	100
ATGTC	12561390	3.771291	4.4078736	1
CTGAT	12512495	3.7566113	4.1141553	30-34
CGTAT	12511235	3.7562327	8.410614	10-14
CATAG	12696115	3.752153	4.0669823	15-19
GCAGC	12477755	3.7513878	5.4139557	1
TCGCA	12317435	3.747752	4.119753	20-24
GTGCA	12591285	3.7353156	4.0515785	10-14
AGCAT	12439300	3.7256656	8.147622	100
TGCTT	12360020	3.724938	4.00732	20-24
ACATG	12587520	3.7200592	4.148565	10-14
TATGA	12571780	3.718624	5.136888	1
CACGT	12154680	3.6982315	13.9250345	100
ATACG	12494835	3.6926675	13.934726	100
TGCGA	12411655	3.6820266	3.9893134	20-24
GACAT	12434795	3.6749234	3.9688184	30-34
AGTGC	12362870	3.667554	4.010015	20-24
GGTGA	12113485	3.593572	13.746721	100
AGTAC	12142295	3.5884793	12.926159	100
CTCGC	11748515	3.5882368	8.163661	100
CTAGT	10977820	3.2958754	13.980734	100
CGCAT	11832810	3.5574877	5.011808	1
GACGT	11882580	3.5250719	12.878546	100
AGATC	11909155	3.5195785	4.4370155	90-94
GTACT	11691430	3.5101032	11.329644	10-14
GTACA	11825435	3.494836	8.955261	10-14
GATCG	11775010	3.4931602	4.0574284	80-84
GTGTA	11903555	3.4844613	4.6585845	95-99
ACGTC	11447990	3.483211	10.903815	10-14
CACAT	11473025	3.4776106	3.820255	25-29
TGATG	11753790	3.4736626	11.038851	10-14
CGTAG	11614140	3.4454367	11.374617	10-14
TACGC	11230820	3.4171343	8.379055	10-14
CATCG	11198550	3.4073155	4.4967794	9
ATGAT	11614525	3.3998559	4.9317365	1
GCACA	11330970	3.3937123	5.555137	1
GTCGT	11255075	3.3931906	7.5912647	10-14
TGTGC	11244600	3.3887842	3.680834	4
ACGTG	11359570	3.3688483	8.293049	10-14
CATAT	11148430	3.3344057	3.7747946	15-19
TCTGC	10748185	3.3222194	4.28572	1
GTATG	11370120	3.3197644	6.94853	10-14
CGATG	11170105	3.31371	4.941036	1
CGTCG	10840620	3.310947	7.317803	100
AGAGC	11337275	3.3107266	3.9533596	90-94
TGCTA	10977820	3.2958754	4.2452016	9
CATCT	10693990	3.2929516	3.7143486	1
ATGAC	11099075	3.2801712	4.512232	1
ACTGC	10780580	3.2801423	3.719684	2
ATCAT	11238985	3.2774687	5.1587157	1
CTCAT	10641610	3.2768226	3.8514223	15-19
TACAT	10930020	3.2690814	7.3578057	10-14
TGCTT	10873355	3.2642637	3.5315301	30-34
TGCTC	10549555	3.2608235	3.593662	3
ATCGC	10709460	3.2585032	4.623581	1
GCAGT	10967095	3.2534852	5.193957	1
GAGCG	11066425	3.2439158	3.8778791	9
AGCGT	10923165	3.240453	4.0701733	10-14
TCTCG	10476360	3.2381992	10.755919	100
TAGCA	10944745	3.2345612	5.4892764	1
GCTAT	10664925	3.2242317	4.6924706	1
CACGT	10582575	3.2198968	3.644505	2
TCACA	10580750	3.207151	3.5503004	5
GCAGA	10979530	3.2062573	5.1051173	1
CTAGT	10664500	3.2017896	5.763679	100
CATAC	10556045	3.1996627	4.5309644	100
TGTCA	10638095	3.1982624	3.583972	6
CGTGT	10590335	3.1931604	4.8921156	1
TGCGC	10483225	3.1896677	5.845559	100
ATCAT	10357060	3.1892025	4.226954	95-99
GCATG	10747795	3.188428	4.5264144	1
TAGTC	10591275	3.1798058	4.709892	1
TGCGC	10401960	3.1769712	3.5765839	3
GCACA	10521125	3.1631348	4.8926973	1
TAGAT	10840405	3.1612363	4.0194335	1
GACTA	10690305	3.1593647	5.1225075	100
ATAGC	10687975	3.1586764	4.7818837	1
CAGTG	10594325	3.1428998	4.5447874	4
ATGAG	10905615	3.1424367	4.165508	1
CCACT	10320550	3.1401718	4.9040885	1
CGTGC	10272955	3.1373081	7.093483	10-14
TGACA	10599585	3.1325338	3.877474	20-24
TGTGA	10664720	3.1218247	3.5042179	8
ACTAG	10556385	3.1197867	3.54185	9
AGTCG	10484180	3.1102422	5.520649	100
ATGTA	10664925	3.1100636	4.4889374	100
CTGTG	10319510	3.10999	3.8181572	2
CACAG	10381415	3.1091332	3.606858	2
ACGCA	10355145	3.1014452	6.0210006	10-14
CACAC	10071600	3.0938532	4.040316	9
TGTAG	10568645	3.0937011	3.9266407	95-99
ATCAC	10192780	3.0895534	4.74466	1
GTCGA	10408785	3.0878577	3.4547741	9
ATATC	10321540	3.0870895	4.2789726	1
AGAGC	10553670	3.0818973	3.8044498	15-19
GAGAT	10677365	3.0766667	3.8743027	15-19
TATCA	10262775	3.0695136	4.793198	1
GTAGA	10624410	3.0614078	7.2754827	10-14
GAGTG	10584765	3.054057	3.959886	90-94
ACTAC	10060420	3.0493782	7.8325295	10-14
CTGTA	10147005	3.046423	4.05131	9
CACTC	9742415	3.0402584	3.3661404	2
CGAGT	10284845	3.039537	3.2990103	2
CGAGA	10397590	3.0363185	4.899002	1
TGCGT	10073130	3.035738	4.24626	100
TGACG	9976075	3.0353603	3.4015862	80-84
AGAGT	10532125	3.0348163	8.404591	100
CTCGT	9809020	3.0319273	5.668236	10-14
GTCAC	9949735	3.0273457	3.8459954	9
TGTGT	10171050	3.0245965	4.348412	9
TACCG	9930820	3.021591	4.086463	9
ATCGT	10051875	3.0178623	4.9227016	10-14
GTATC	10048965	3.016988	3.9328305	15-19
ACTGT	10035395	3.0129142	4.196879	9
TATCG	10035170	3.012847	4.2315593	1
TACTA	10070055	3.0118725	7.1586947	100
TGCTG	9980170	3.0107367	4.754706	10-14
CGGTA	9878125	3.005558	3.949898	1
AGGAC	10016030	2.9998777	6.668892	100
CAGTA	10149295	2.999625	5.0562572	10-14
CACTA	9815415	2.9751692	7.386658	100
CGGCT	9615055	2.9719734	6.988253	10-14
GTAGT	10121720	2.9628747	6.9585167	10-14
TAGTA	10152790	2.9607167	7.8686004	10-14
GAGAC	10110995	2.9526262	8.456499	100
CTCTA	9586030	2.9517825	9.18412	100
TCTAC	9543760	2.9387667	5.7478952	10-14
TACTC	9504360	2.9266346	6.73410087	10-14
TGTCG	9672110	2.914883	6.7183466	100
CCAGC	9690920	2.913537	7.2990775	10-14
ATCTA	9672735	2.8993073	9.42824	1
TACTG	9532125	2.8961233	5.0363903	1
ATAGT	9820795	2.8639016	6.7077346	100
ACTCG	9406970	2.8622022	8.441355	100
GTCTA	9531360	2.8615885	8.772109	100
TATGT	9614845	2.8483698	8.122417	100
CGAGT	9554395	2.8343954	7.960323	100
TAGAC	9566330	2.8271904	7.979701	100
TGATG	9642115	2.8224826	8.820636	100
ACATG	9552800	2.8132317	7.767031	100
CAGAC	9374310	2.8076775	8.450829	100
CGGAG				