

FastQC Report

Summary

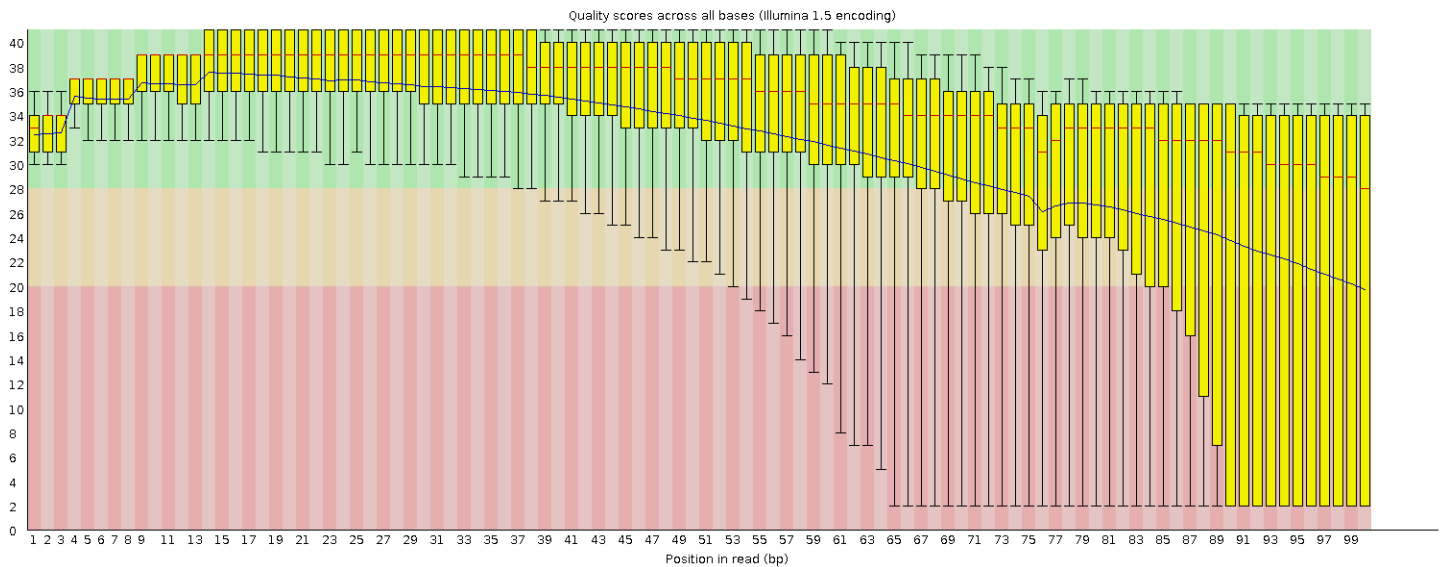
Mi 16 Nov 2011
all24samples.fastq

- ✓ [Basic Statistics](#)
- ✗ [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](#)
- ✗ [Kmer Content](#)

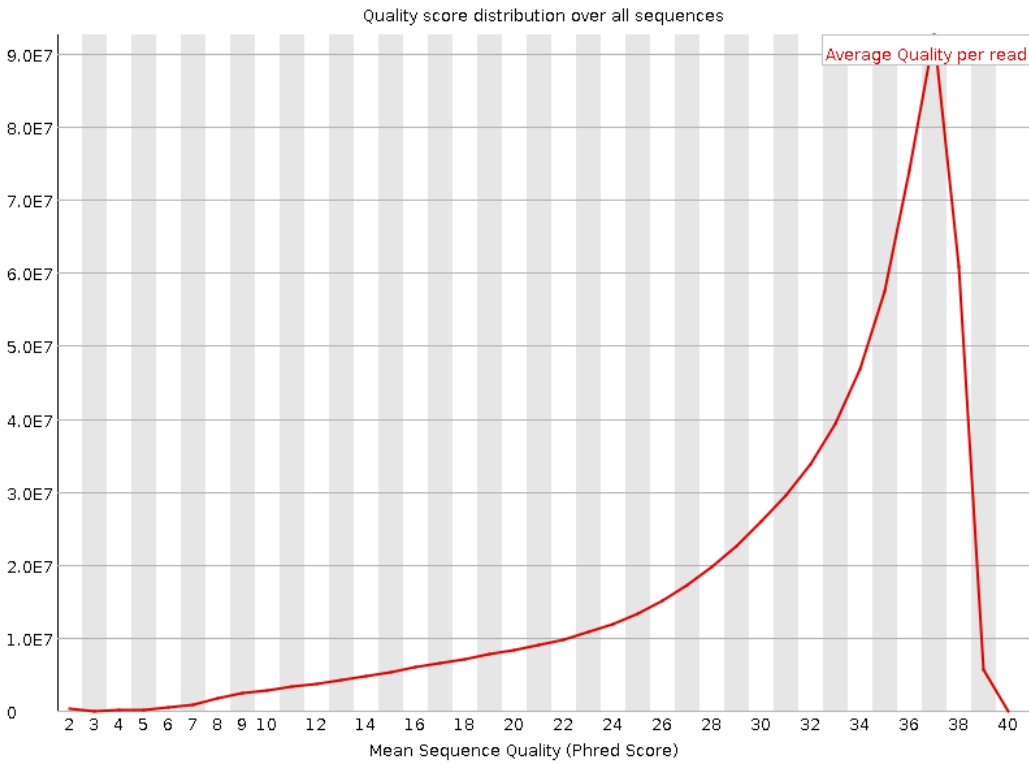
✓ Basic Statistics

Measure	Value
Filename	all24samples.fastq
File type	Conventional base calls
Encoding	Illumina 1.5
Total Sequences	665404362
Filtered Sequences	0
Sequence length	100
%GC	48

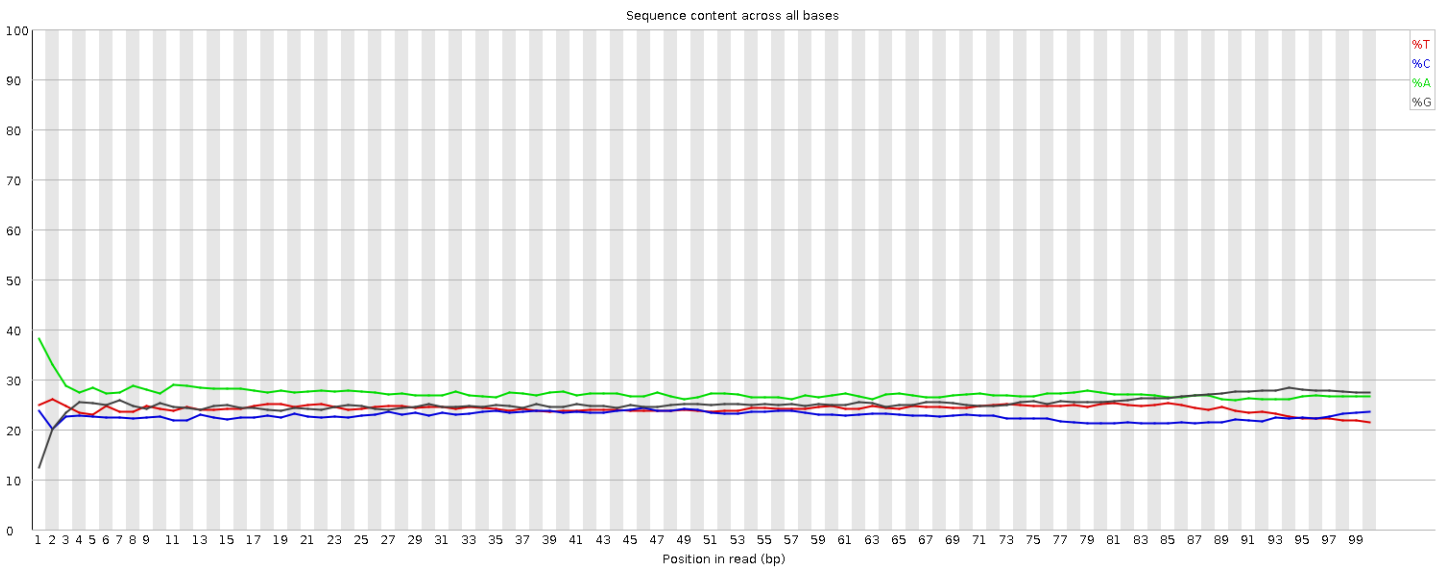
✗ Per base sequence quality



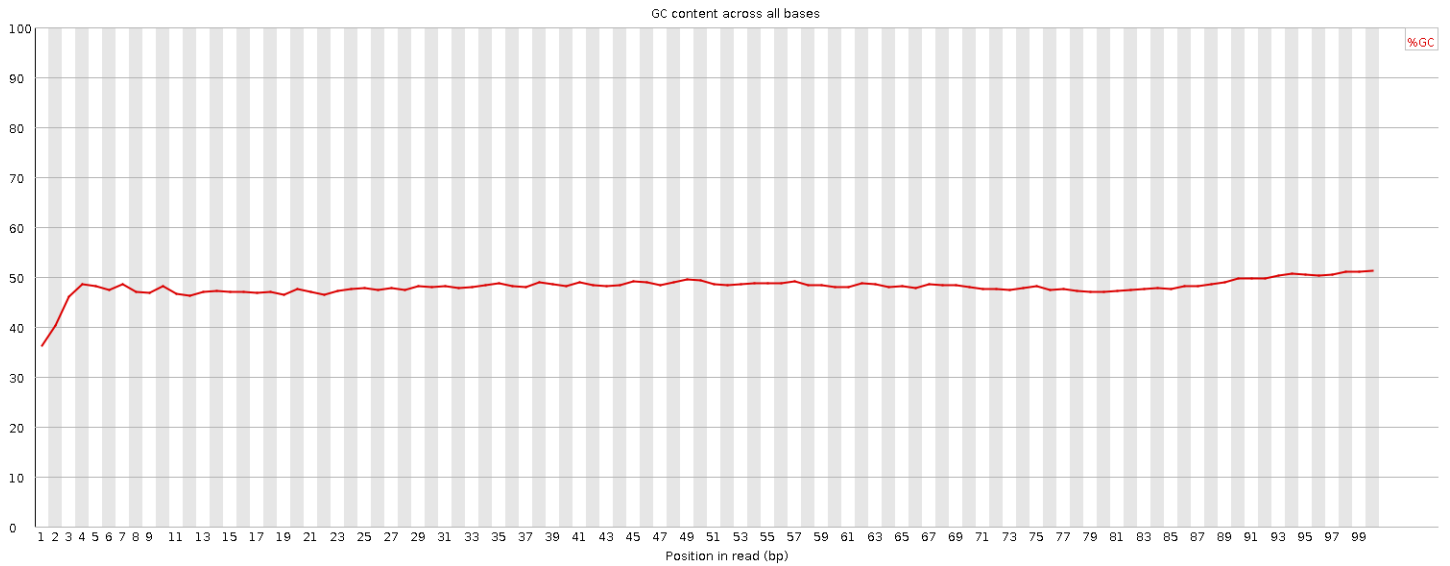
✔ Per sequence quality scores



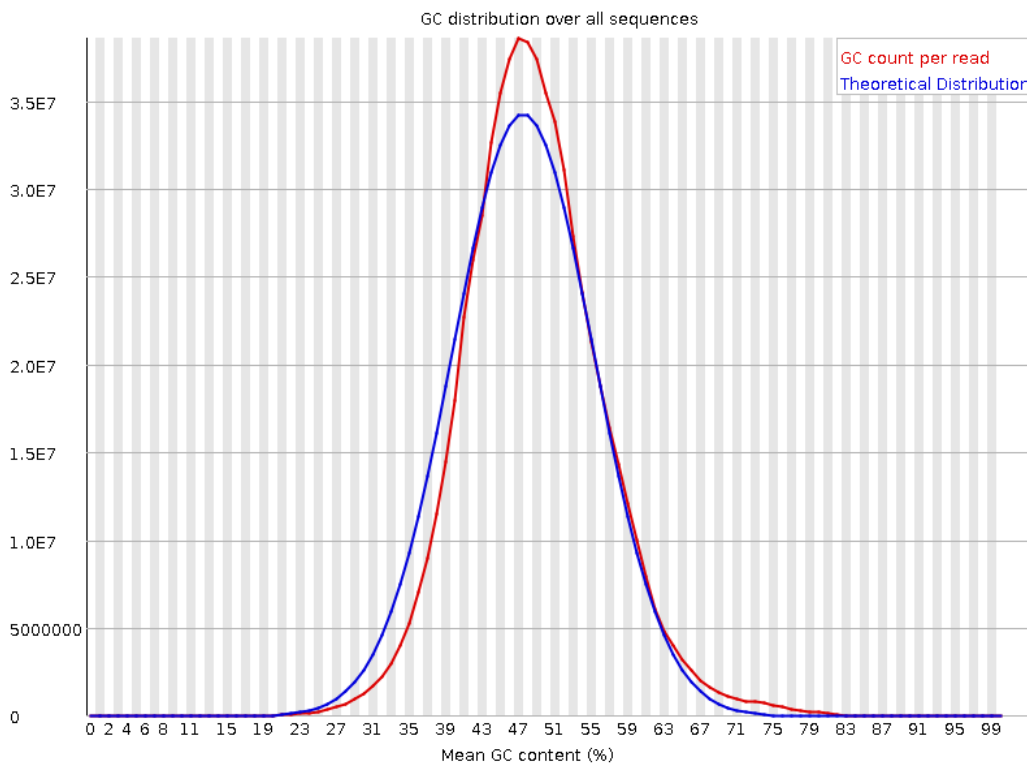
⚠ Per base sequence content



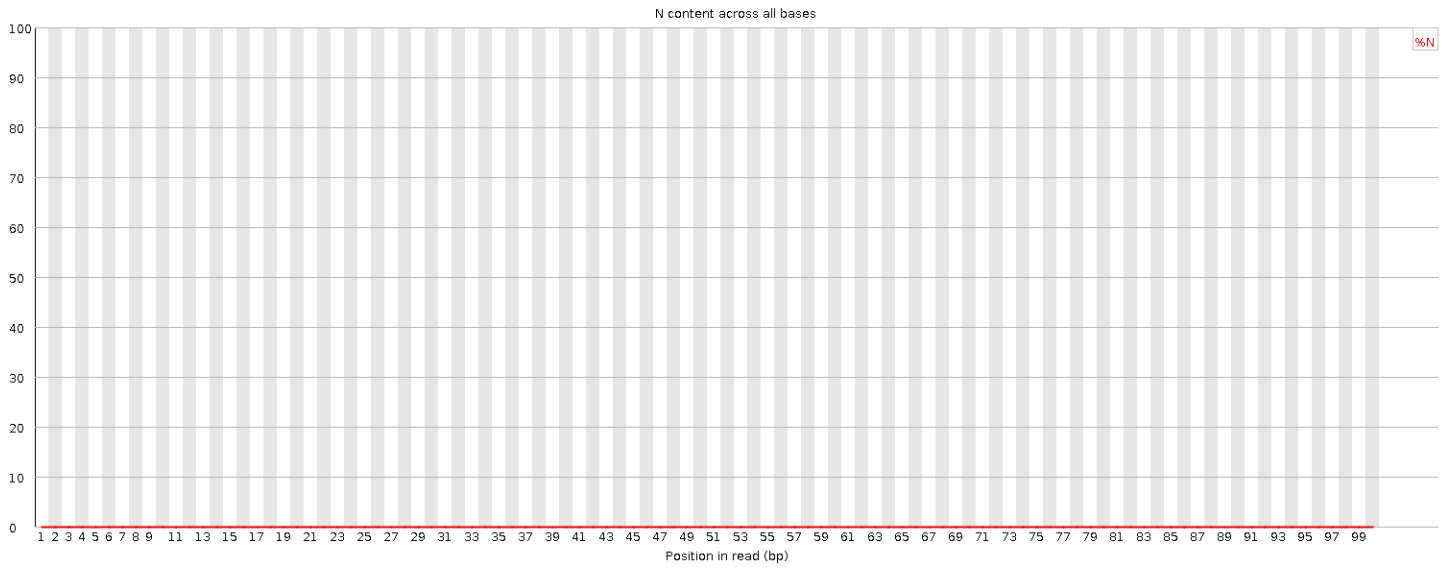
✘ Per base GC content



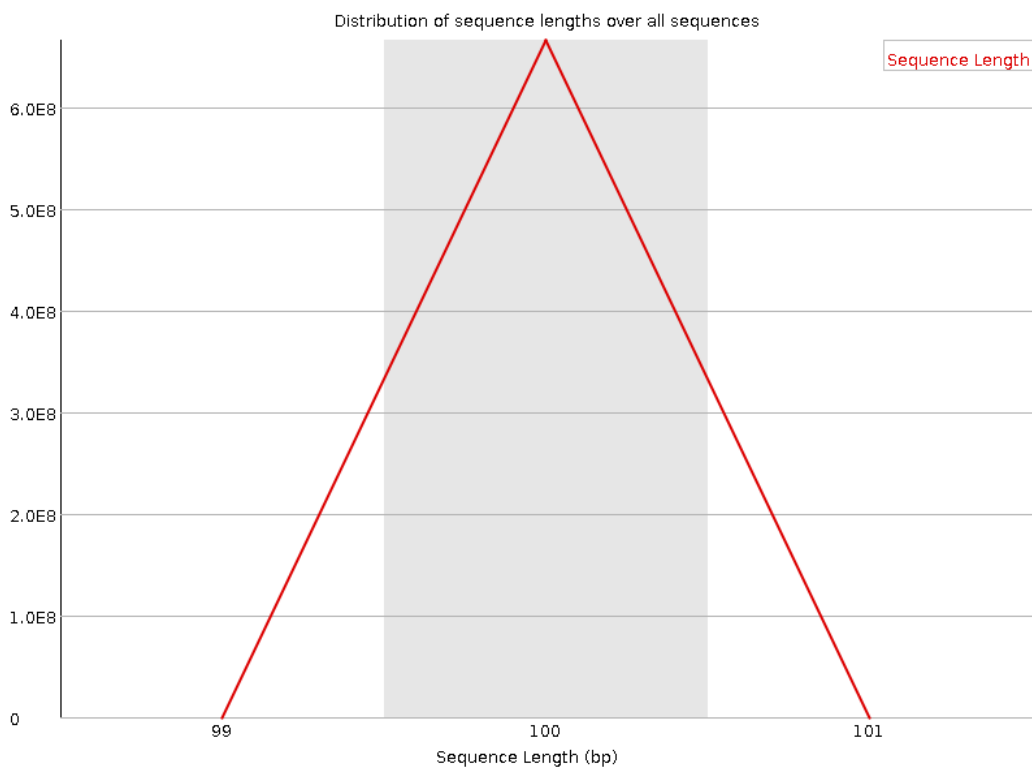
✔ **Per sequence GC content**



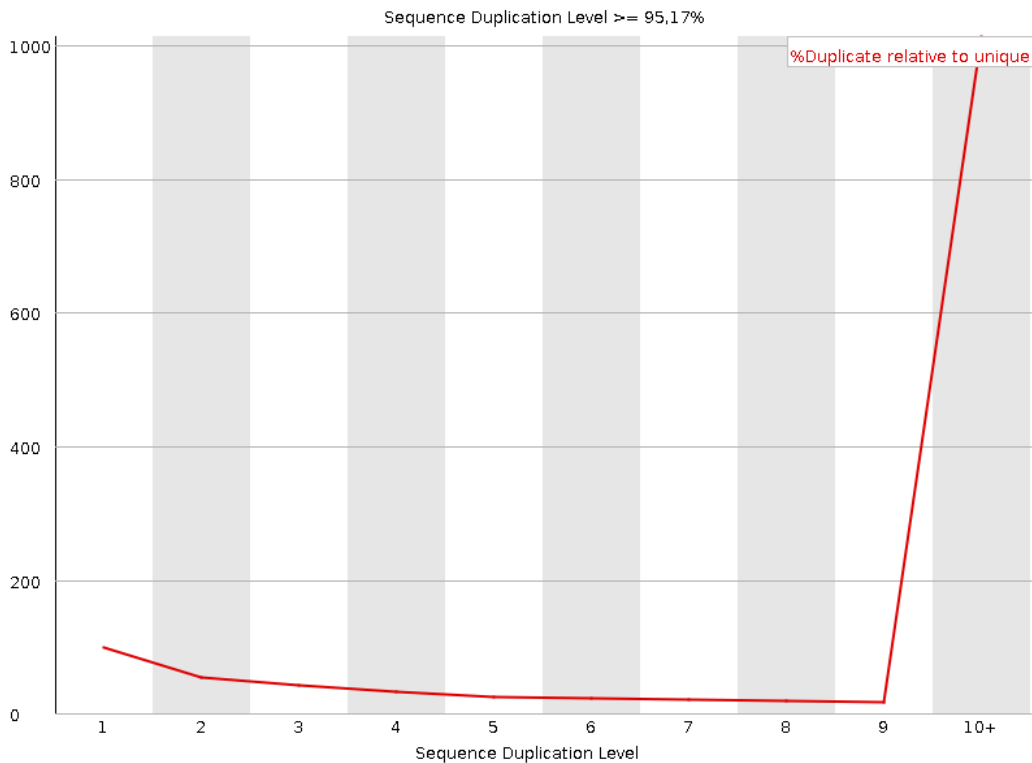
✔ **Per base N content**



✔ Sequence Length Distribution



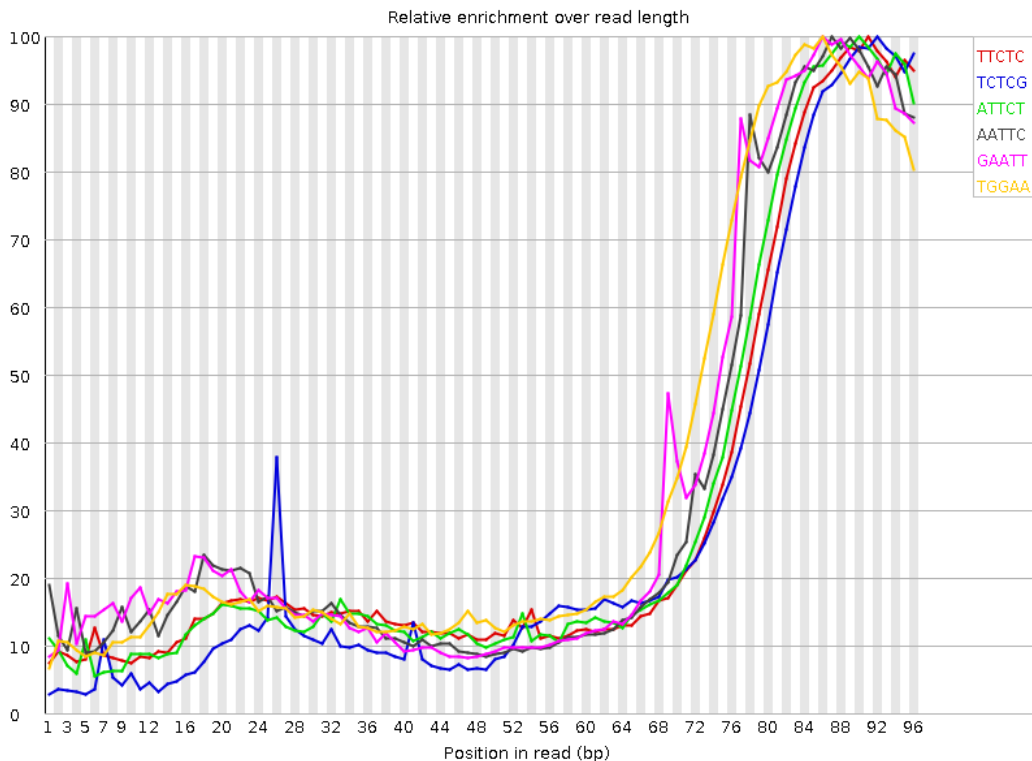
✘ Sequence Duplication Levels



⚠ Overrepresented sequences

Sequence	Count	Percentage	Possible Source
AAC TTTC AAC AAC G G G AT C T C T T G G C T C T G C A T C G A T G A A G A A C G C A G C G	2931282	0.44052641782952423	No Hit
T C A A A C G A G G A A A G G C T T A C G G T G G A T A C T A G G C A C C C A G A G A C G A G G A	1133722	0.17038090892466978	No Hit
A A A T G A G A A C T T T G A A G G C C G A A G A G G G A A A G G T T C C A T G T G A A C G G C A	964760	0.14498852954618896	No Hit
A A A C T T T C A A C A A C G G A T C T C T T G G C T C T G G C A T C G A T G A A G A A C G C A G C	826171	0.12416074302801158	No Hit
T A C C T G G T T G A T C C T G C C A G T A G T C A T A T G C T T G T C T C A A G A T T A A G C C	752912	0.11315104664132032	No Hit
A A T G A G A A C T T T G A A G G C C G A A G A G G G A A A G G T T C C A T G T G A A C G G C A C	701056	0.10535789063552908	No Hit

❌ Kmer Content



Sequence	Count	Obs/Exp Overall	Obs/Exp Max	Max Obs/Exp Position
TTCTC	351261530	7.2508225	25.062649	91
TCTCG	322335055	6.406679	24.114845	92
ATTCT	354618905	6.1133475	20.826416	90
AATTC	374753770	5.7328615	18.27959	87
GAATT	403872680	5.598748	17.141178	86
TGGAA	413903215	5.524767	16.449793	86
AAAAA	545747925	5.4902825	15.713121	87
CTCGG	275186390	5.2664886	22.44595	93
GGAAT	377496150	5.0388074	16.504894	87
TCGGG	289375880	5.0185413	21.191135	94
CGGGT	221569025	3.842591	17.739004	95
GGGTG	235677880	3.7038627	16.555925	96
CTCTC	168547900	3.696816	11.397588	25
GGTGC	211211325	3.662961	17.37435	95
GTGCC	191337940	3.6618052	19.096737	96
CCAAG	232905025	3.6451957	16.377865	96
TCTCT	172215115	3.5549047	11.015066	17
TGCCA	199389795	3.5167105	16.885391	96
CAAGG	237811160	3.3728359	15.445037	96
GCCAA	214283595	3.353752	16.815811	96
CTCCA	166884465	3.2480943	10.588418	96
AAGGA	271084495	3.2109103	12.477973	96
ATGGA	239494000	3.1967583	7.8947678	82
TTGGA	183417280	2.7589712	5.7432365	90
GGGGG	180279480	2.7280424	7.660169	93
AGGAA	229120660	2.7138617	12.068609	96
GAACT	173290590	2.5525205	11.592409	96
AACTC	155611665	2.5293877	11.628915	96
ACTCC	125366050	2.440016	12.377329	96

AATGG	175364590	2.3407612	5.387302	80
AAGAA	208191555	2.2726164	5.7763476	39
GAAGA	191120110	2.2637575	6.1038404	38
CTGGA	135959835	2.173028	5.041362	85
GGAAC	152313310	2.160234	12.197434	96
CTTGG	115772035	2.0852113	7.796597	20
TCCAG	114658975	2.0222824	8.236729	96
CCAGT	113762325	2.0064676	6.810659	96
CTCTT	96054025	1.9827697	9.15352	18
ATCTC	103704990	1.8996109	7.2383847	16
GCTCT	94942255	1.8870567	8.499897	24
CGGGG	105781265	1.7664143	5.0042777	96
TGAAG	131718565	1.7581751	5.9242873	37
GATGA	131411370	1.7540748	9.180946	7
GTGAA	128926735	1.72091	5.3542094	67
TGATG	113294280	1.7041779	8.996679	6
TCTTG	86576855	1.6194946	7.707107	19
CAGTC	91811240	1.6193086	5.8065314	96
TCATC	87671290	1.6059144	5.7736454	89
CTTTC	76257905	1.5741335	8.178734	3
AACAA	126951180	1.5292512	5.344737	8
ATCTT	83834245	1.4452356	5.2623954	96
TTGCA	86985160	1.4438801	5.845577	72
AATCT	93939225	1.437052	5.127082	95
TGAAT	103338235	1.4325426	5.328317	68
TTCAA	91802250	1.4043611	6.5241313	5
TGGCT	77727705	1.3999814	7.0502176	22
ACTTT	81197155	1.3997744	7.0007863	2
AGAAC	103732335	1.3558657	5.49907	40
GGCTC	70838300	1.3556958	7.388351	23
AATTG	96646160	1.3397723	5.1410775	70
AACTT	87439110	1.3376154	7.0128527	1
TTGGC	73736025	1.3280858	6.9223084	21
ATGAA	105741365	1.3007673	5.0034146	36
TTTCA	75341520	1.2988278	6.666243	4
ATGAT	93003080	1.2892698	6.803133	5
ATTGC	73136485	1.2140037	5.7033467	71
TGCAG	75307480	1.2036294	5.5308366	73
TGTGA	79990590	1.2032222	5.4261622	66
TCAAC	72491670	1.1783149	6.3813815	6
CAACA	81236995	1.1717513	5.7618093	7
GCAGA	81645745	1.1579679	5.005228	74
GATCT	69674745	1.1565417	6.69485	15
CATCG	63306875	1.1165665	6.9758463	31
TTCAG	65679680	1.090227	5.120119	80
GGATC	67663790	1.0814613	6.332414	14
GCAGC	62933685	1.0687734	6.2510095	45
ACAAC	71793890	1.0355452	5.7326546	9
ATGTG	67840375	1.0204581	5.2765813	65
GCGAA	71281660	1.0109758	5.33872	48
GAACG	70481765	0.9996311	6.406803	41
GCATC	54385745	0.95922136	6.2774577	30
CGATG	58663020	0.93760335	5.889255	34

ATCGA	63241530	0.93152946	5.6932573	32
TCGAT	52138115	0.8654486	5.9729943	33
CTCGC	40530720	0.85596794	8.093585	27
CGGAT	53547695	0.8558458	6.181319	13
AACGC	52337820	0.81913906	5.915318	42
ACGCA	50323695	0.787616	5.915792	43
AATGC	50673610	0.7464076	5.20058	52
CAGCG	42363370	0.71943736	5.7426176	46
AACGG	48017690	0.6810269	5.014657	11
GCGAT	42479200	0.67893946	5.4512043	55
CAACG	42478350	0.66482854	5.672545	10
TGCGA	37398305	0.5977321	5.250594	54
ACGGA	41761760	0.59230006	5.0673695	12
CGCAT	32615490	0.57525134	6.1021786	29
TCGCA	31274635	0.5516022	5.9506807	28
CGCAG	29175130	0.49546757	5.6804123	44
ATGCG	30950195	0.49467283	5.3406377	53

Produced by [FastQC](#) (version 0.10.1)

FastQC Report

Summary

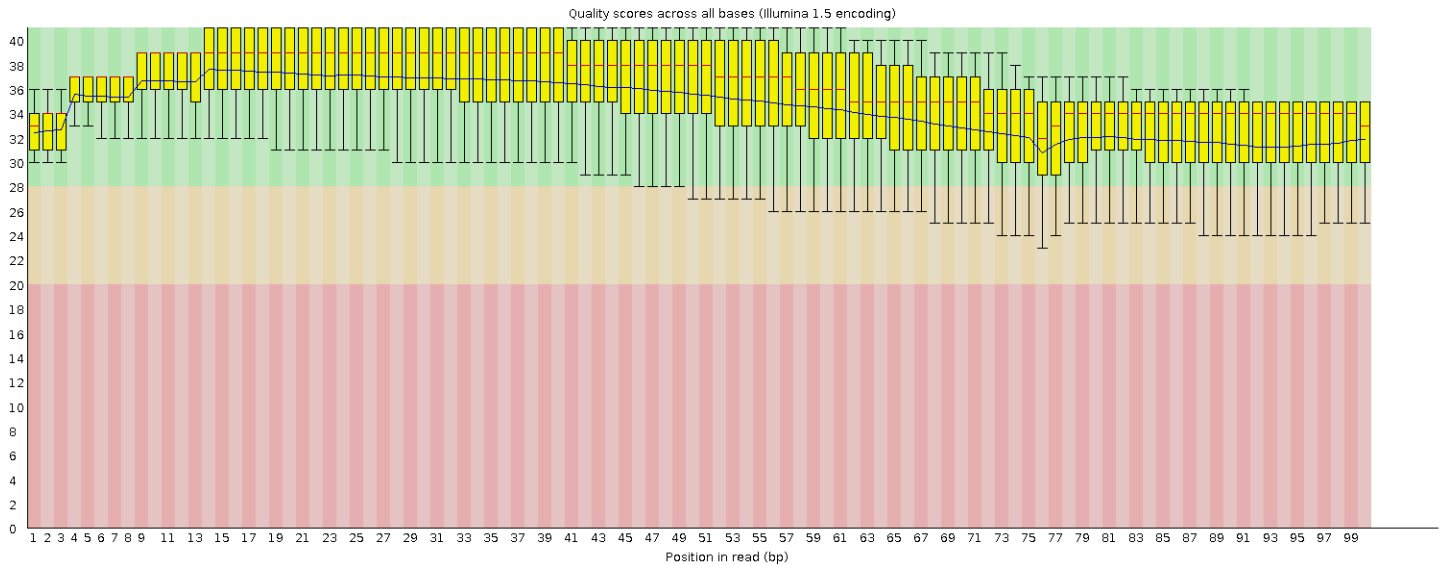
Mi 16 Nov 2011
all24-adapter-qual.fastq

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- ✔ [Per base sequence quality](#)
- ✔ [Per sequence quality scores](#)
- ⚠ [Per base sequence content](#)
- ✖ [Per base GC content](#)
- ✔ [Per sequence GC content](#)
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- ⚠ [Sequence Length Distribution](#)
- ✖ [Sequence Duplication Levels](#)
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- ✖ [Kmer Content](#)

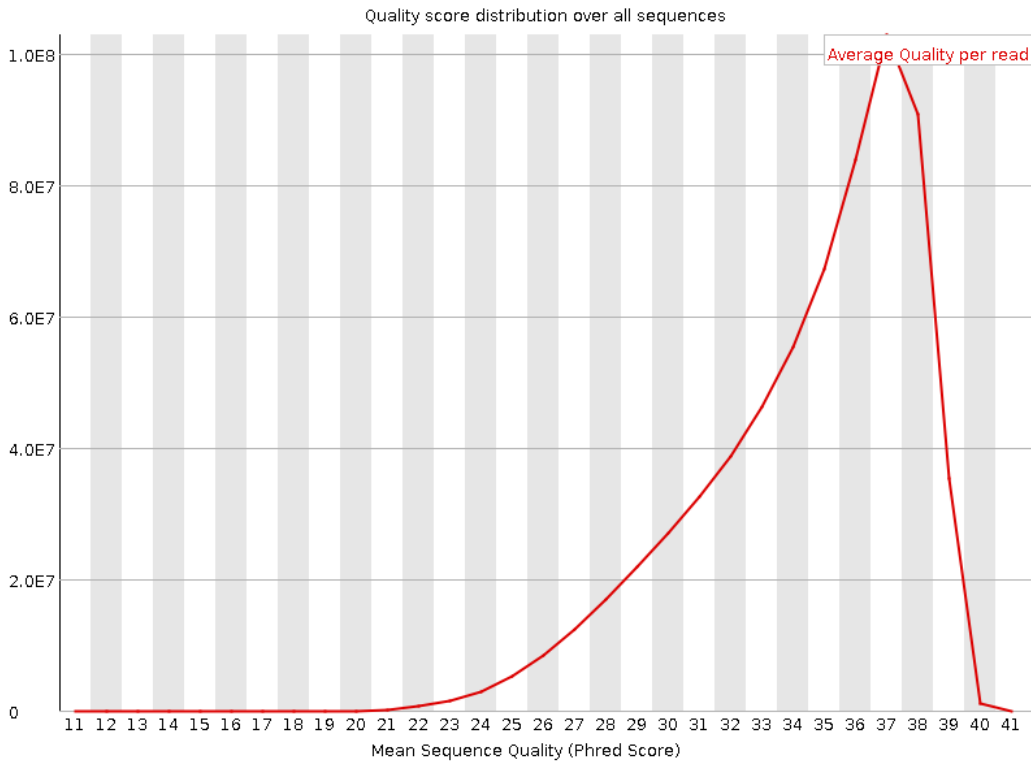
✔ Basic Statistics

Measure	Value
Filename	all24-adapter-qual.fastq
File type	Conventional base calls
Encoding	Illumina 1.5
Total Sequences	653844992
Filtered Sequences	0
Sequence length	1-100
%GC	47

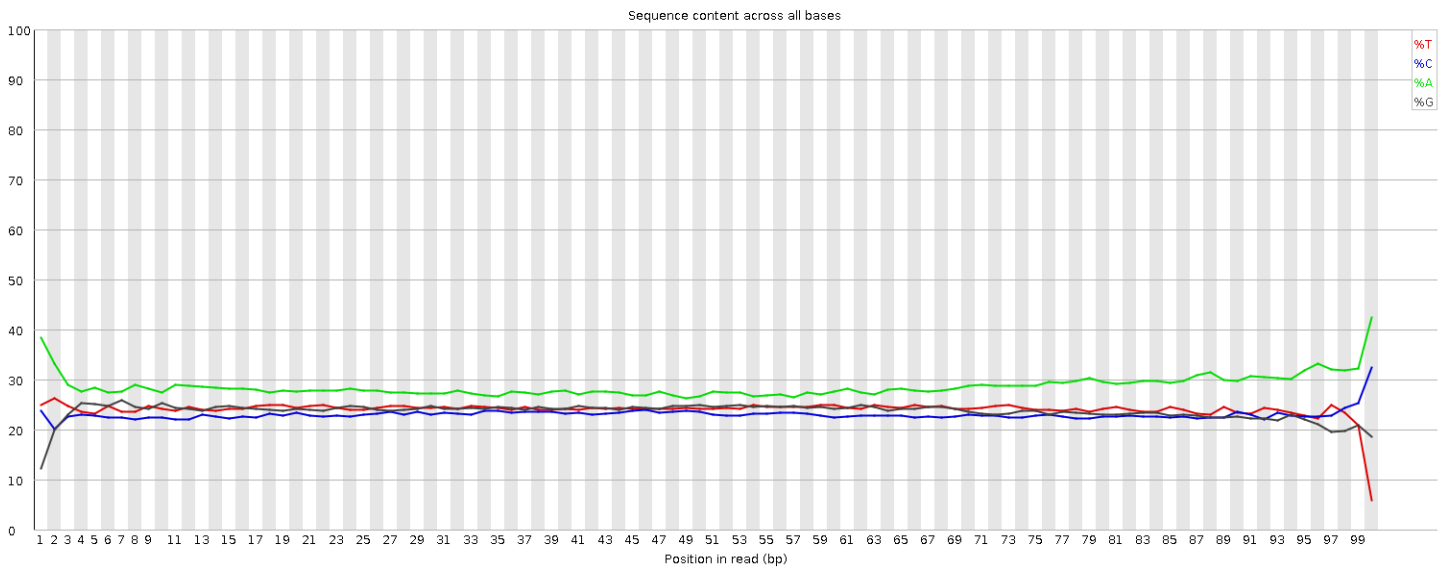
✔ Per base sequence quality



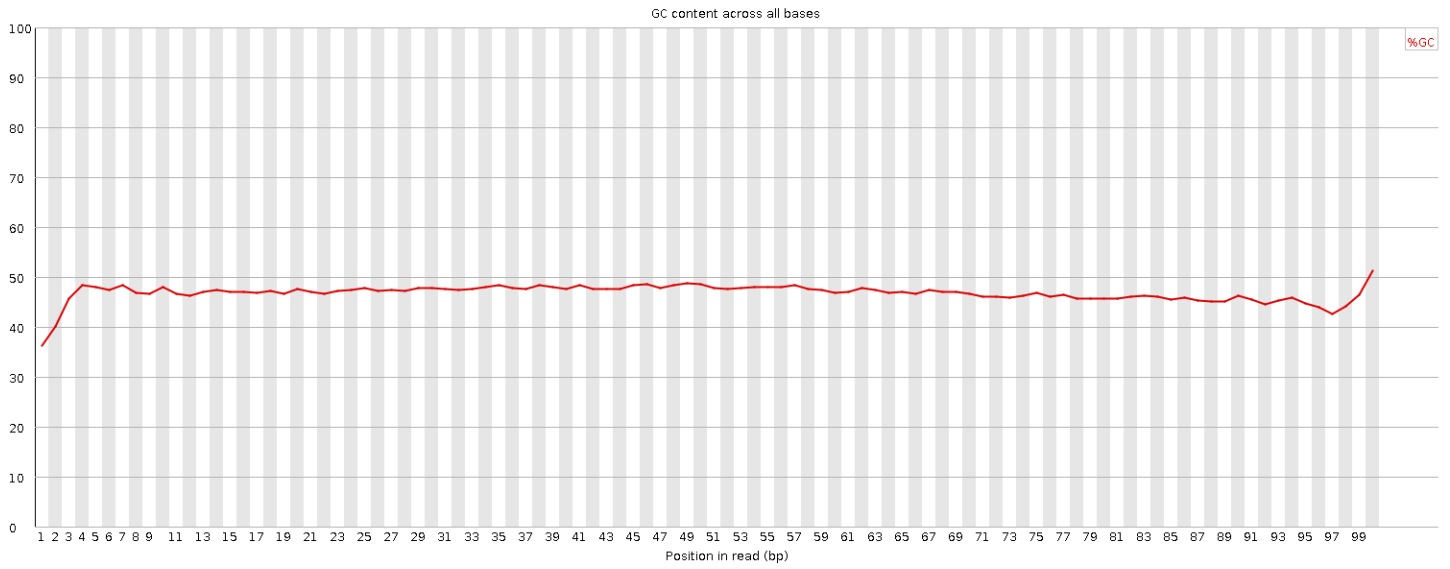
✔ Per sequence quality scores



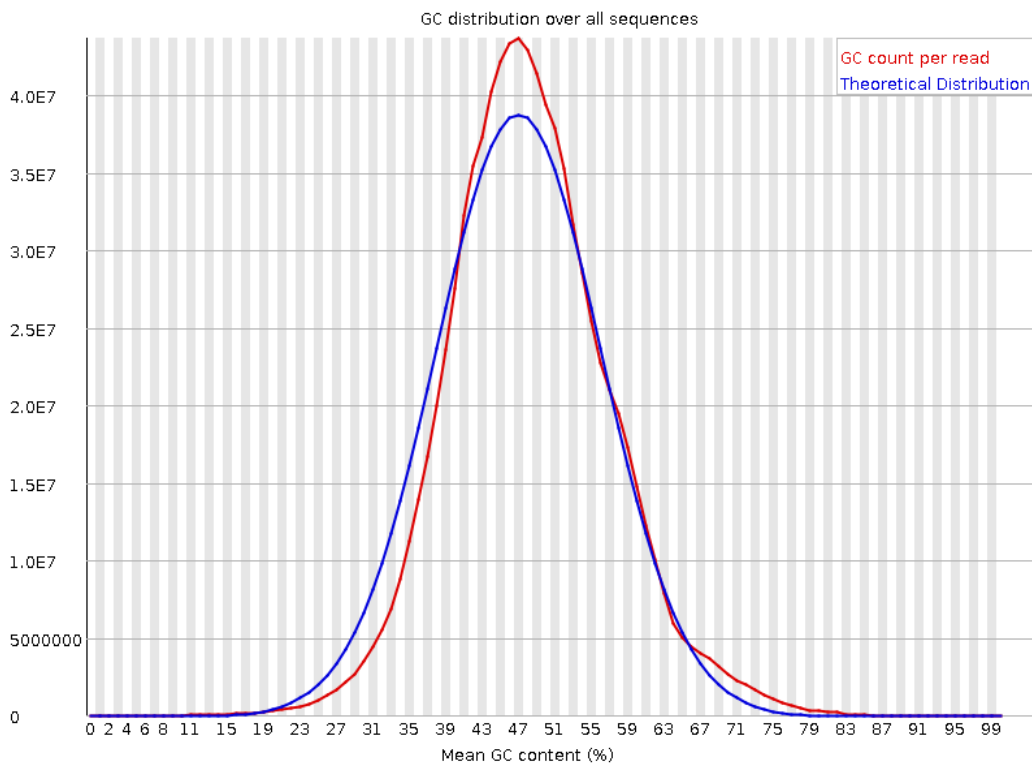
⚠ Per base sequence content



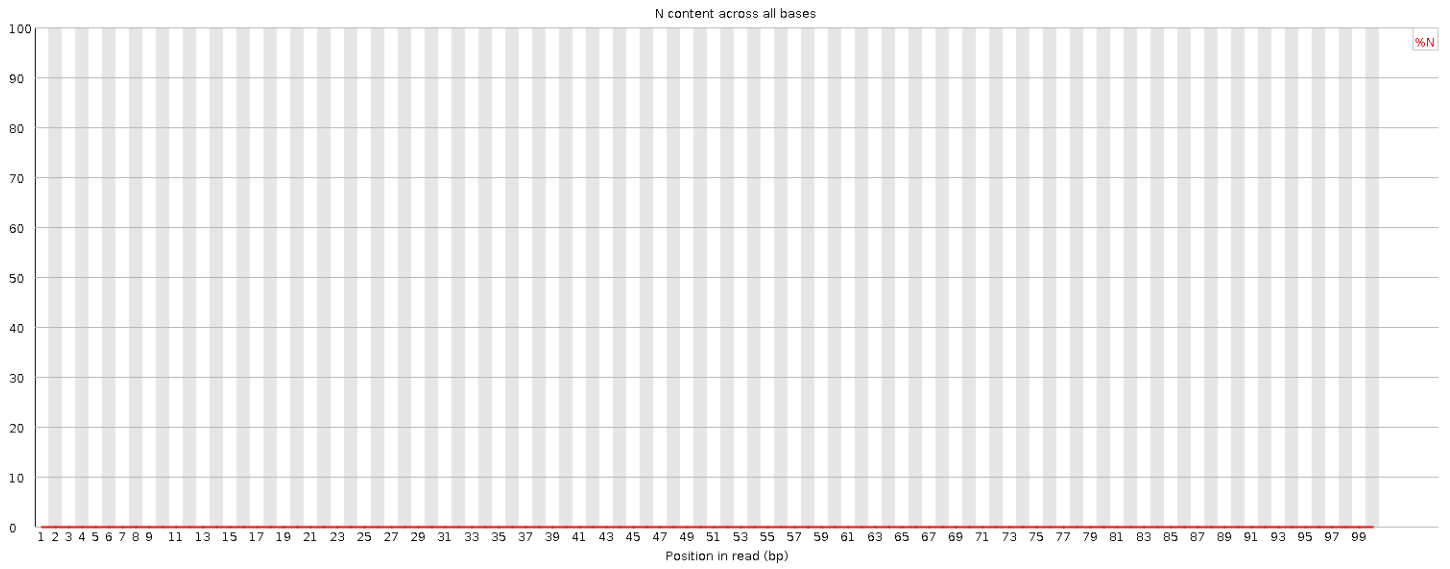
✘ Per base GC content



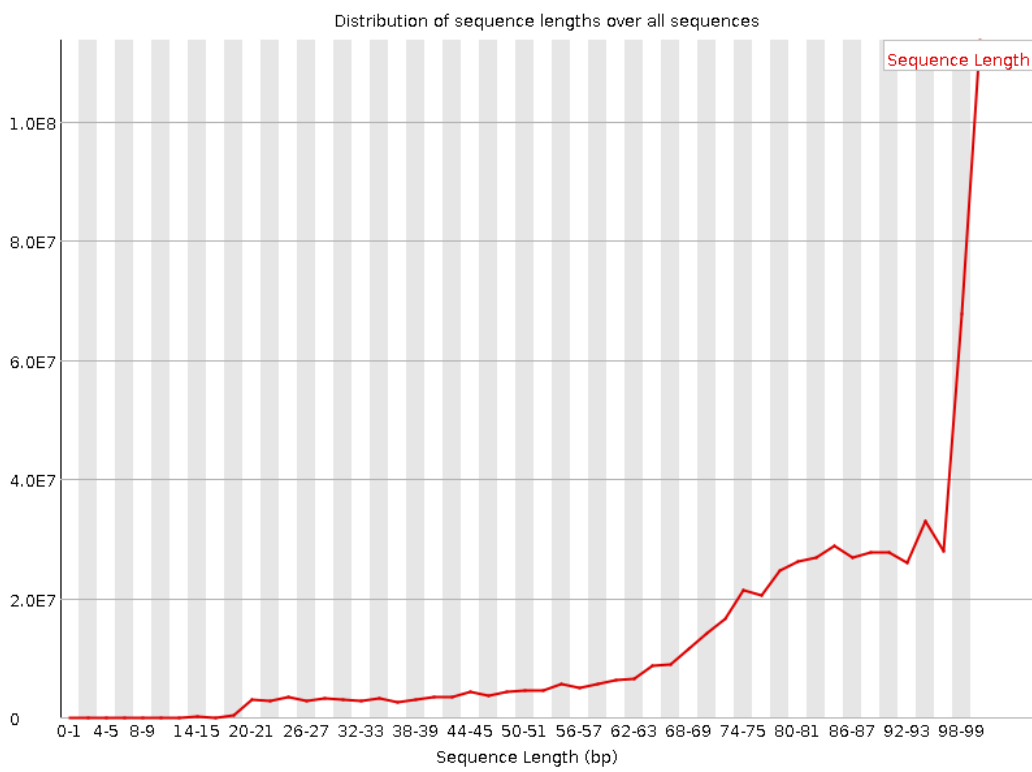
✔ **Per sequence GC content**



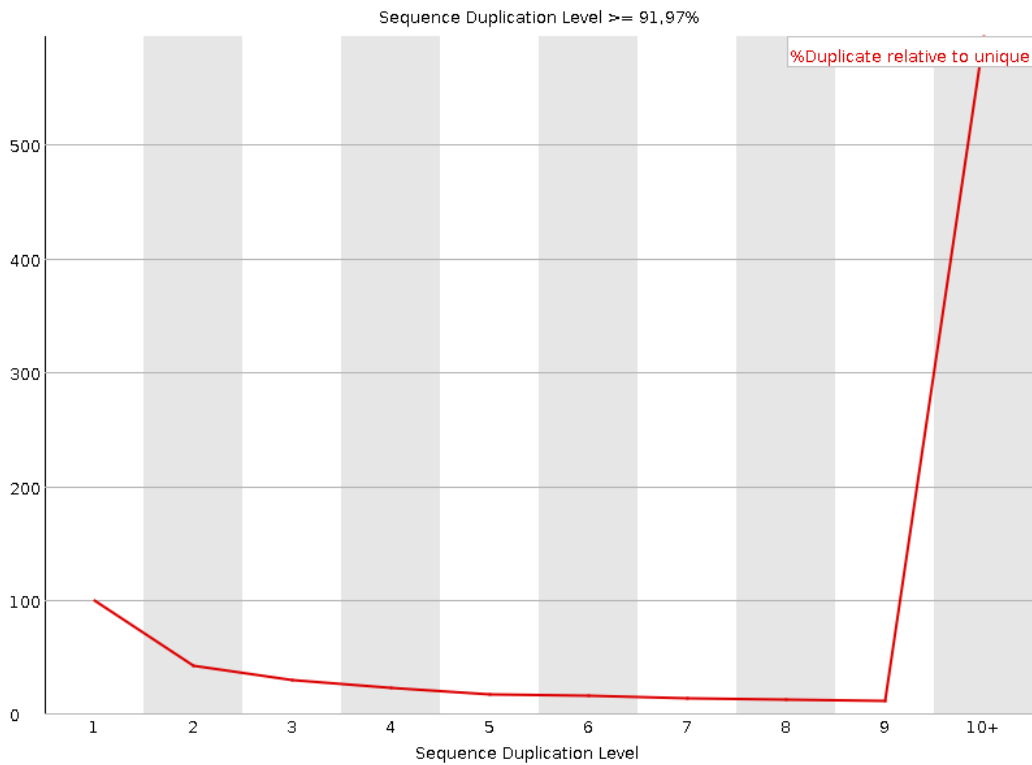
✔ **Per base N content**



Sequence Length Distribution



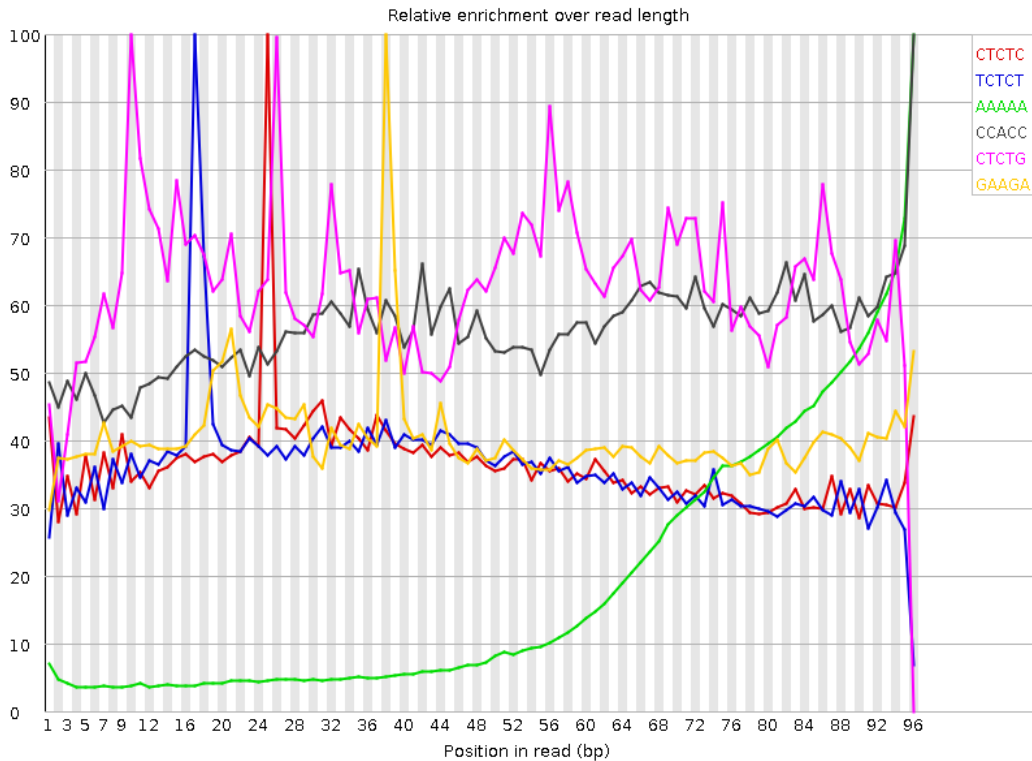
Sequence Duplication Levels



⚠ Overrepresented sequences

Sequence	Count	Percentage	Possible Source
AACTTTCAACAACGGATCTCTGGCTCTCGCATCGATGAAGAACGCAGCG	2814339	0.4304290824942191	No Hit
AAATGAGAACTTTGAAGGCCGAAGAGGGGAAAGGTTCCATGTGAACGGCA	801773	0.1226243237785631	No Hit
AACTTTCAACAACGGATCTCTGGCTCTGGCATCGATGAAGAACGCAGC	772010	0.11807232745463929	No Hit
TACCTGGTTGATCCTGCCAGTAGTCATATGCTTGCTCAAAGATTAAGCC	739084	0.11303657732993694	No Hit
TCAAACGAGGAAAGGCTTACGGTGGATACCTAGGCACCCAGAGACGAGGA	718430	0.10987772465801804	No Hit

⊗ Kmer Content



Sequence	Count	Obs/Exp Overall	Obs/Exp Max	Max Obs/Exp Position
CTCTC	161469585	4.2909737	11.538213	25
TCTCT	163199420	4.0999393	10.984784	17
AAAAA	351107560	3.677394	26.924915	96
CCACC	131336325	3.1697645	5.705923	96
CTCTG	118686375	3.0308845	4.782057	10
GAAGA	180153640	2.6449711	6.4678245	38
AAGAA	194265050	2.4089823	5.6348166	39
GCTCT	87593950	2.2368796	9.0954895	24
CTCTT	87495350	2.1980815	9.0908	18
GATGA	125108815	2.1394153	9.589545	7
TGAAG	125087485	2.13905	6.509571	37
GTGAA	122665290	2.0976298	9.023504	84
TGATG	101201105	2.01568	9.699804	6
CTTGG	75924870	1.8631849	8.425186	20
CTTTC	71534735	1.7971146	8.115739	3
TCATC	81839010	1.7651837	13.362174	89
TCTTG	71281635	1.7208375	8.071495	19
TTGCA	82263990	1.7050719	7.8412743	72
TGGCT	69470765	1.704802	7.9321265	22
TTGGC	67443760	1.6550597	7.795545	21
GAATT	98348085	1.6544867	7.0921283	77
GGCTC	63171395	1.6398294	8.324819	23
AATTC	90658980	1.587102	7.435363	78
GAATC	88444585	1.573892	14.26407	94
CCATC	67805560	1.5470387	5.0660157	90
TTCAA	88084365	1.54203	6.0829296	5
ACTTT	75390220	1.5372279	6.7587547	2
TGTGA	76623065	1.5261453	7.0244393	66
TGAAT	89920700	1.5127147	9.149461	85

TGCAG	70165395	1.4783105	7.965675	73
AGAAC	96534290	1.474878	5.5535307	40
ATGAT	87478965	1.4716378	6.7150583	5
ATTGC	70291075	1.4569113	7.5279655	71
TTTCA	71189880	1.4515817	6.431454	4
ATGAA	100151040	1.4465171	5.035462	36
CAGAA	94522245	1.4441371	6.570195	75
AATTG	85038260	1.430579	6.234178	70
ATCTC	65708380	1.4172626	6.9733787	16
AACTT	80297405	1.4057093	6.539655	1
ATTCA	80201710	1.404034	7.4075108	79
GCAGA	74548820	1.3485103	7.0777817	74
CATCG	60608170	1.3288331	13.516795	90
AATCT	74938980	1.3119032	15.804409	95
GGATC	61399395	1.2936201	6.814786	14
AGAAT	89247575	1.2890347	5.9541993	76
TTCAG	62174660	1.2886838	8.638154	80
GAAAT	89018170	1.2857213	5.127297	50
TCAAC	69412180	1.2853932	5.9283876	6
AAATG	87305835	1.2609895	5.03232	51
GCAGC	56004260	1.2481594	7.126203	45
ATGTG	61905910	1.2330154	6.7290273	65
CAACA	76590115	1.2177098	5.1819897	7
ATCAT	69343625	1.2139493	10.247241	88
CGAAA	77748805	1.187868	5.0531144	49
GAACG	64870215	1.1734344	7.0491138	41
GATCT	55803070	1.1566209	6.8151765	15
AGTGA	67455875	1.1535248	8.031737	83
GCGAA	63647005	1.1513076	5.83548	48
TCGAA	61216505	1.089362	13.092655	92
GCATC	49347445	1.0819418	6.6011033	30
ATCGA	59824015	1.0645823	11.492909	91
ACAAC	66549765	1.0580778	5.1585293	9
CAGTG	49940270	1.0521884	9.408738	82
AATCA	69718865	1.0478885	8.446142	87
CGATG	48529395	1.0224628	6.550388	34
TCGAT	48539485	1.0060698	6.335941	33
AATGT	58869180	0.9903424	5.7667623	64
CTCGC	36463455	0.9849919	8.660985	27
TCTCG	38561455	0.9847408	7.57115	26
CGGAT	46226440	0.97394204	6.624664	13
TCAGT	45960220	0.9526098	8.638237	81
AACGC	48878380	0.9200827	6.1668425	42
ACGCA	47854080	0.90080124	6.194221	43
AGCGA	49534040	0.896019	5.4355483	47
CAGCG	38362735	0.85498506	6.5925684	46
AATGC	47580575	0.84670746	5.6402125	52
CGAAT	45985855	0.8183291	12.690145	93
GCGAT	36853575	0.7764657	6.433112	55
AACGG	41571090	0.75197756	5.2150106	11
TGCCA	35262645	0.7429465	6.2744617	54
TAATG	43950310	0.73936576	5.4525576	63
CAACG	38943275	0.73306507	5.5669236	10

GTAAT	42818510	0.72032565	5.387429	62
ACGGA	37135620	0.6717444	5.2731133	12
CGCAT	29769555	0.65269697	6.38768	29
TCGCA	29091420	0.6378289	6.232082	28
ATGCG	27999965	0.58992946	6.3275867	53
CGCAG	26051925	0.5806157	6.5056944	44
CGATA	29185755	0.51936734	5.368032	56
TAAGT	29210810	0.49140656	5.174328	59

Produced by [FastQC](#) (version 0.10.1)