MP5k_unk

Summary

General

fastp version:	0.19.6 (https://github.com/OpenGene/fastp)
sequencing:	paired end (151 cycles + 151 cycles)
mean length before filtering:	150bp, 150bp
mean length after filtering:	150bp, 150bp
duplication rate:	63.168306%
Insert size peak:	0

Before filtering

total reads:	120.869114 M
total bases:	18.208906 G
Q20 bases:	16.417683 G (90.162933%)
Q30 bases:	14.774755 G (81.140268%)
GC content:	43.322278%

After filtering

total reads:	101.028768 M
total bases:	15.183734 G
Q20 bases:	14.313465 G (94.268413%)
Q30 bases:	13.111521 G (86.352413%)
GC content:	42.588647%

Filtering result

reads passed filters:	101.028768 M (83.585264%)
reads with low quality:	19.123774 M (15.821886%)
reads with too many N:	1.782000 K (0.001474%)
reads too short:	624.196000 K (0.516423%)
reads with low complexity:	90.594000 K (0.074952%)

Adapters

Adapter or bad ligation of read1

The input has little adapter percentage (~0.021208%), probably it's trimmed before.

Sequence	0ccurrences
all adapter sequences	28362

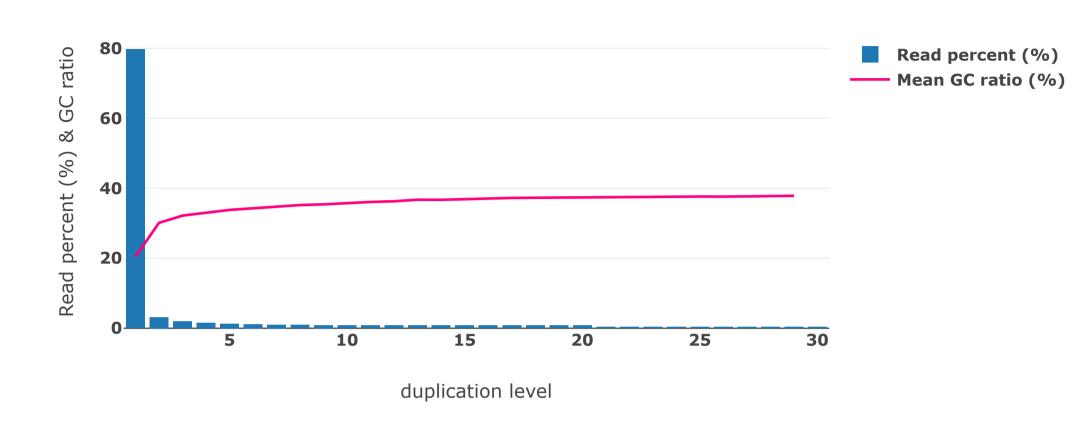
Adapter or bad ligation of read2

The input has little adapter percentage (~0.019327%), probably it's trimmed before.

Sequence	Occurrences
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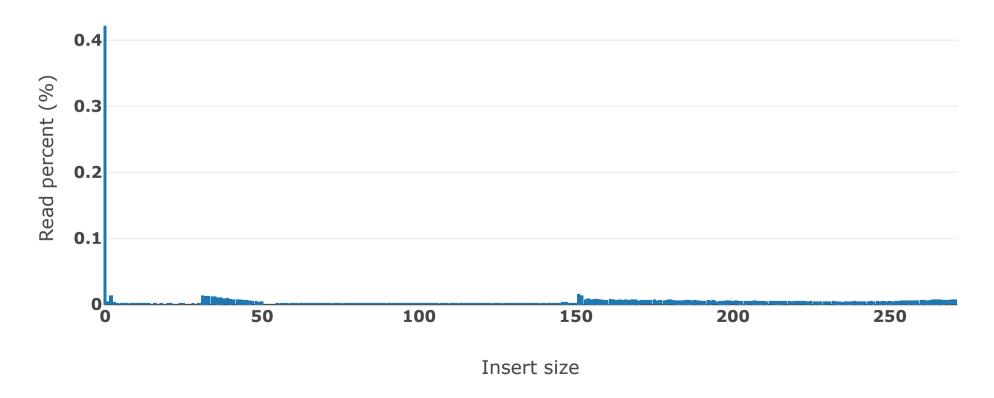
Duplication

duplication rate (63.168306%)



Insert size estimation

Insert size distribution (98.530240% reads are with unknown length)

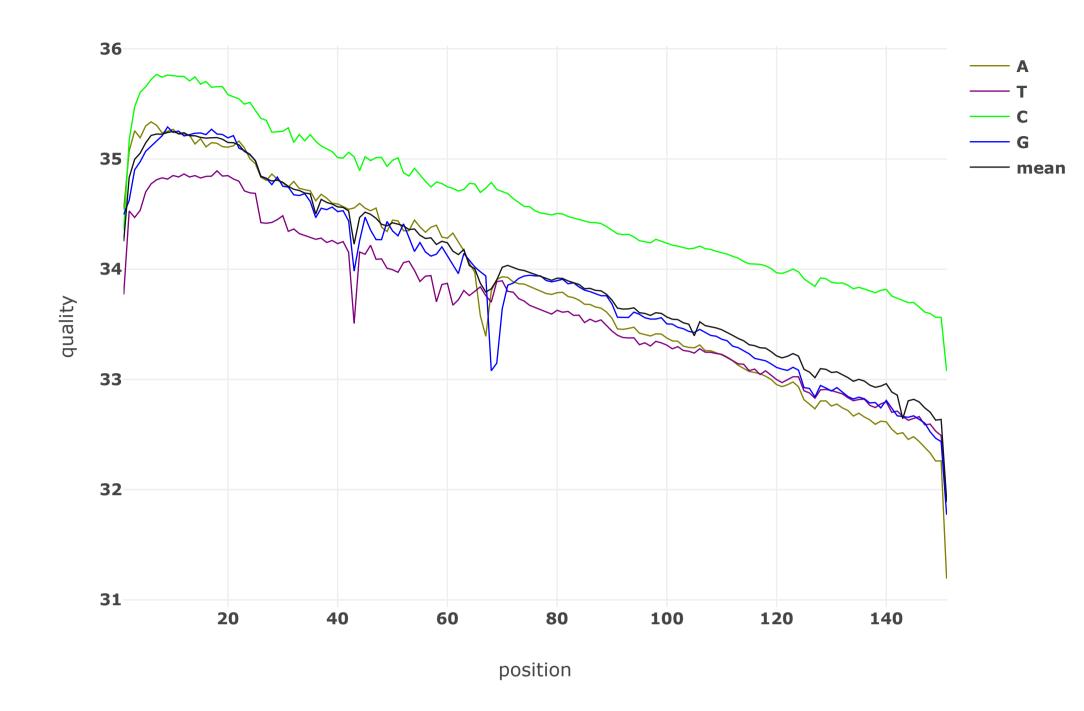


This estimation is based on paired—end overlap analysis, and there are 98.530240% reads found not overlapped.

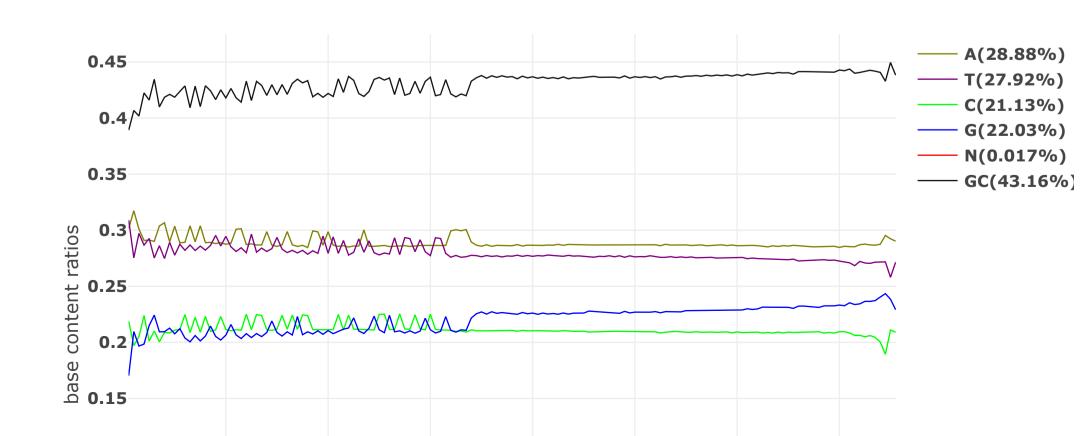
The nonoverlapped read pairs may have insert size <30 or >272, or contain too much sequencing errors to be detected as overlapped.

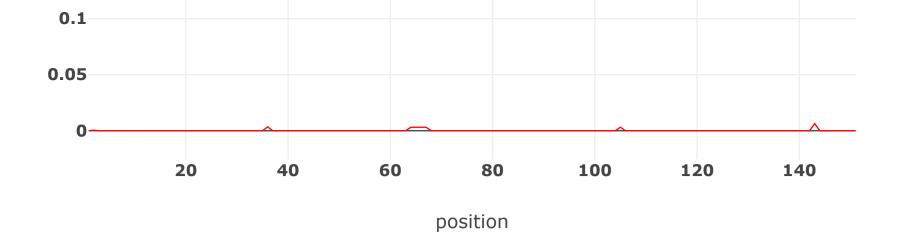
Before filtering

Before filtering: read1: quality



Before filtering: read1: base contents





Before filtering: read1: KMER counting

Darker background means larger counts. The count will be shown on mouse over.

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TCA				TTGAC				TTGTC	TTGTG	TTGCA	TTGCT		TTGCG	TTGGA	TTGGT	TTGGC	TTGGG
TECA	TCA	TCAAA	TCAAT	TCAAC	TCAAG	TCATA	TCATT	TCATC	TCATG	TCACA	TCACT	TCACC	TCACG	TCAGA	TCAGT	TCAGC	TCAGG
TEGA	TCT	TCTAA	TCTAT	TCTAC	TCTAG	TCTTA	TCTTT	TCTTC	TCTTG	TCTCA	TCTCT	TCTCC	TCTCG	TCTGA	TCTGT	TCTGC	TCTGG
TGA	TCC	TCCAA	TCCAT	TCCAC	TCCAG	TCCTA	TCCTT	TCCTC	TCCTG	TCCCA	TCCCT	TCCCC	TCCCG	TCCGA	TCCGT	TCCGC	TCCGG
TOT	TCG	TCGAA	TCGAT	TCGAC	TCGAG	TCGTA	TCGTT	TCGTC	TCGTG	TCGCA	TCGCT	TCGCC	TCGCG	TCGGA	TCGGT	TCGGC	TCGGG
TOC. TOCAA	TGA	TGAAA	TGAAT	TGAAC	TGAAG	TGATA	TGATT	TGATC	TGATG	TGACA	TGACT	TGACC	TGACG	TGAGA	TGAGT	TGAGC	TGAGG
TGGA	TGT	TGTAA	TGTAT	TGTAC		TGTTA	TGTTT	TGTTC	TGTTG		TGTCT	TGTCC	TGTCG	TGTGA	TGTGT	TGTGC	TGTGG
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GTT GTTAA GTTAT GTTAC GTTAG GTTTA GTTTC GTTTC GTTTC GTTCA GTTCT GTTCC GTTCG GTTCA GTTCT GTTCC GTTCA GTCAA GT	GAG	GAGAA	GAGAT	GAGAC	GAGAG	GAGTA	GAGTT	GAGTC		GAGCA	GAGCT	GAGCC					GAGGG
GTC GTCAA GTCAT GTCAC GTCAG GTCTA GTCTT GTCTC GTCTG GTCCA GTCCT GTCCC GTCCG GTCGA GTCGT GTCGC GTCGC GTG GTGAA GTGAT GTGAC GTGAG GTGTA GTGTT GTGTC GTGTG GTGCA GTGCT GTGCC GTGCG GTGGA GTGGT GTGGC GTGGA GCA GCAAA GCAAT GCAAC GCAAG GCATA GCATT GCATC GCATC GCACA GCACT GCACC GCACG GCAGA GCAGT GCAGC GCAGA GCT GCTAA GCTAT GCTAC GCTAG GCTTA GCTTT GCTTC GCTCC GCTCA GCTCT GCCCC GCCCG GCCGA GCCGT GCCGC GCC GCCAA GCCAT GCCAC GCCAG GCCTA GCCTT GCCTC GCCCC GCCCA GCCCC GCCCG GCCGA GCCGT GCCGC GCG GCGAA GCGAT GCGAC GCGAG GCGTA GCGTT GCGTC GCGCC GCGCA GCCCT GCCCC GCCCG GCGGA GCGGT GCGGC GGA GGAAA GCGAT GCGAC GCGAG GCGTA GCGTT GCGTC GCGCC GCGCA GCCCT GCCCC GCCCG GCGGA GCGGT GCGGC GGAA GCGAT GCGAC GCGAG GCGTA GCGTT GCGTC GCGCC GCGCA GCGCT GCGCC GCGGA GCGGT GCGGC GGAA GGAAA GGAAT GGAAC GGAAG GGATA GGATT GGATC GGATC GGACA GGCCT GCCCC GCCCG GCCGA GCGGT GCGCC GGCC GCCAA GCCAT GCCAC GCACA GCGCT GCCCC GCCCC GCCCC GCCCC GCCCC GCCCC GGCC GCCAA GCCAT GCCAC GCACA GCCAT GCCCC	GTA																GTAGG
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GCT GCTAA GCTAT GCTAC GCTAG GCTTA GCTTT GCTTC GCTTG GCTCA GCTCT GCTCC GCTCG GCTGA GCTGT GCTGC GCTGG GCC GCCAA GCCAT GCCAC GCCAG GCCTA GCCTT GCCTC GCCCA GCCCA GCCCA GCCCA GCCCA GCCCA GCCCA GCG GCGAA GCGAT GCGAC GCGAG GCCTA GCGTT GCGTC GCGCA GCCCA GCCCA GCCCA GCCCA GCCCA GCCCA GCCCA GCGA GCGAA GCGAT GCGAC GCGAG GCGAA GCGAT GCGCA GCGCA GCGCA GCGCA GCGCA GCGCA GCGCA GGAAA GGAAT GGAAC GGAAC GGAAG GGATA GGATT GGATC GGATC GGACA GGACT GGACC GGACG GGAGA GGAGT GGAGC GGAGA GGTAA GGTAT GGTAC GGTAC GGTAC GGTAC GGTCA GGTCA GGTCA GGCCA GGCCA GCCCA GCCA GCCCA GC			-														GTGGG
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GCG GCGAA GCGAT GCGAC GCGAG GCGTA GCGTT GCGTC GCGTG GCGCA GCGCT GCGCC GCGCG GCGGA GCGGT GCGGC GCGG GGA GGAAA GGAAT GGAAC GGAAG GGATA GGATT GGATC GGATG GGACA GGACT GGACC GGACG GGAGA GGAGT GGAGC GGAGG GGT GGTAA GGTAT GGTAC GGTAG GGTTA GGTTT GGTTC GGTTC GGTCA GGTCT GGCCC GGCCG GGCGA GGCGT GGCGC GGCG GGC GGCAA GGCAT GGCAC GGCAG GGCTA GGCTT GGCTC GGCTC GGCCA GGCCT GGCCC GGCCG GGCGA GGCGT GGCGC GGCGC																	GCTGG
GGA GGAAA GGAAT GGAAC GGAAG GGATA GGATT GGATC GGATG GGACA GGACT GGACC GGACG GGAGA GGAGT GGAGC GGAGG GGT GGTAA GGTAT GGTAC GGTAG GGTTA GGTTT GGTTC GGTTC GGTCA GGTCT GGTCC GGTCG GGTCA GGTCA GGTCA GGTCA GGCCA GCCA GGCCA			-		-			-				-					GCCGG
GGT GGTAA GGTAT GGTAC GGTAG GGTTA GGTTT GGTTC GGTTG GGTCA GGTCT GGTCC GGTCG GGTGA GGTGT GGTGC GGTGC GGC GGCAA GGCAT GGCAC GGCAG GGCTA GGCTT GGCTC GGCTG GGCCA GGCCT GGCCC GGCCG GGCGA GGCGT GGCGC GGCG																	GCGGG
GGC GGCAA GGCAT GGCAC GGCAG GGCTA GGCTT GGCTC GGCTG GGCCA GGCCT GGCCC GGCCG GGCGA GGCGT GGCGC GGCGC																	GGAGG
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	000	GUGAA	UUUAT	JUGAC	UUUAU	UUUTA	00011	00010	00010	UUUCA	00001	00000	00000	OUGGA	1 00001	00000	00000

Before filtering: read1: overrepresented sequences

Sampling rate: 1 / 20

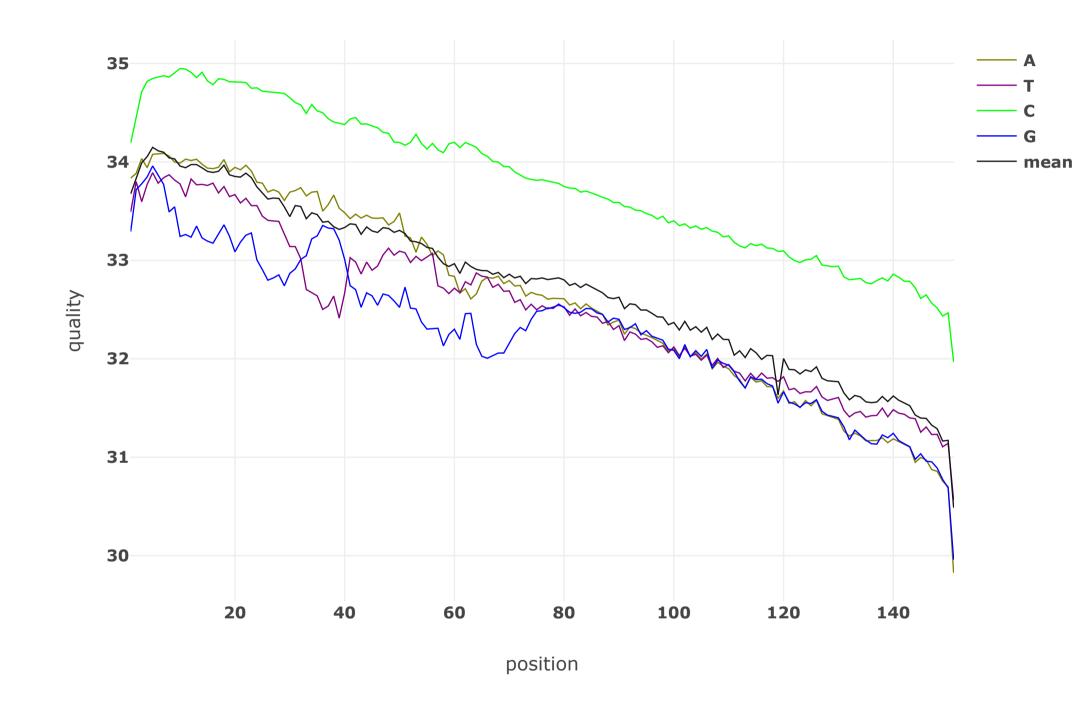
overrepresented sequence	count (% of bases)	distribution: cycle 1 ~ cycle 151
АААААААА	51619 (0.113399%)	
AACACACACACACACACACACACACACACACACACACA	7620 (0.066960%)	

ACACACACACACACACACACACACACACACAAAC	484 (0.004253%)	
ACACACACACACACACACACACACACACACACACA	385 (0.003383%)	
AC	7344 (0.064535%)	
ACACACACACACACACACACACACACACACACACACA	232 (0.002039%)	
AG	5490 (0.048243%)	
AGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	5514 (0.048454%)	
ATAGATAGATAGATAGATAGATAGATAGATAG	189 (0.001661%)	
ATCGGAAGAGCACACGTCTGAACTCCAGTCACGCCAATATCGCGTATGCCGTCTTCTGCTTGAAAAGGGGGGGG	11 (0.000360%)	
ATCGGAAGAGCACACGTCTGAACTCCAGTCACGCCAATATCGCGTATGCCGTCTTCTGCTTGAAAATGGGGGGGG	7 (0.000229%)	
ATCGGAAGAGCACACGTCTGAACTCCAGTCACGCCAATATCTCGTATGCCGTCTTCTGCTTGAAAAGGGGGGGG	61 (0.001997%)	
ATCGGAAGAGCACACGTCTGAACTCCAGTCACGCCAATATCTCGTATGCCGTCTTCTGCTTGAAAAGTGGGGGGGG	9 (0.000295%)	
ATCGGAAGAGCACACGTCTGAACTCCAGTCACGCCAATATCTCGTATGCCGTCTTCTGCTTGAAAATGGGG GGGGGGGGGG	22 (0.000720%)	
ATGTGTGTGTGTGTGT	30075 (0.132140%)	
CACACACACACACACACACACACACACACACAAACA	368 (0.003234%)	
CACACACACACACACACACACACACACACACACAAA	665 (0.005844%)	
CACACACACACACACACACACACACACACACACACACA	12555 (0.110326%)	
стстстстстстстстстстстстстстстст	2539 (0.022311%)	
CTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	6147 (0.054016%)	
GA	4972 (0.043691%)	
GATAGATAGATAGATAGATAGATAGATAGATA	544 (0.004780%)	
GATCGGAAGAGCACACGTCTGAACTCCAGTCACGCCAATATCGCGTATGCCGTCTTCTGCTTGAAAAGGGG GGGGGGGGGG	5616 (0.183829%)	
GATCGGAAGAGCACACGTCTGAACTCCAGTCACGCCAATATCGCGTATGCCGTCTTCTGCTTGAAAATGGG GGGGGGGGGG	844 (0.027627%)	
GATCGGAAGAGCACACGTCTGAACTCCAGTCACGCCAATATCTCGTATGCCGTCTTCTGCTTGAAAAAGGGG GGGGGGGGGG	17857 (0.584513%)	
GATCGGAAGAGCACACGTCTGAACTCCAGTCACGCCAATATCTCGTATGCCGTCTTCTGCTTGAAAAGTGG GGGGGGGGGG	396 (0.012962%)	
GATCGGAAGAGCACACGTCTGAACTCCAGTCACGCCAATATCTCGTATGCCGTCTTCTGCTTGAAAATGGG GGGGGGGGGG	3183 (0.104189%)	
GCACACACACACACACACACACACACACACACACACACA	7938 (0.069754%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	85276 (0.749353%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1182 (0.025967%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGA	255 (0.002241%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	6996 (0.061477%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTTTT	238 (0.002091%)	

TACACACACACACACACACACACACACACACACACA	6658 (0.058506%)	
тстстстстстстстстстстстстстстстс	3462 (0.030422%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGAG	529 (0.004649%)	
тстстстстстстстстстстстстстстстс	13108 (0.115185%)	
тстстстстстстстстстстстстстстт	415 (0.003647%)	

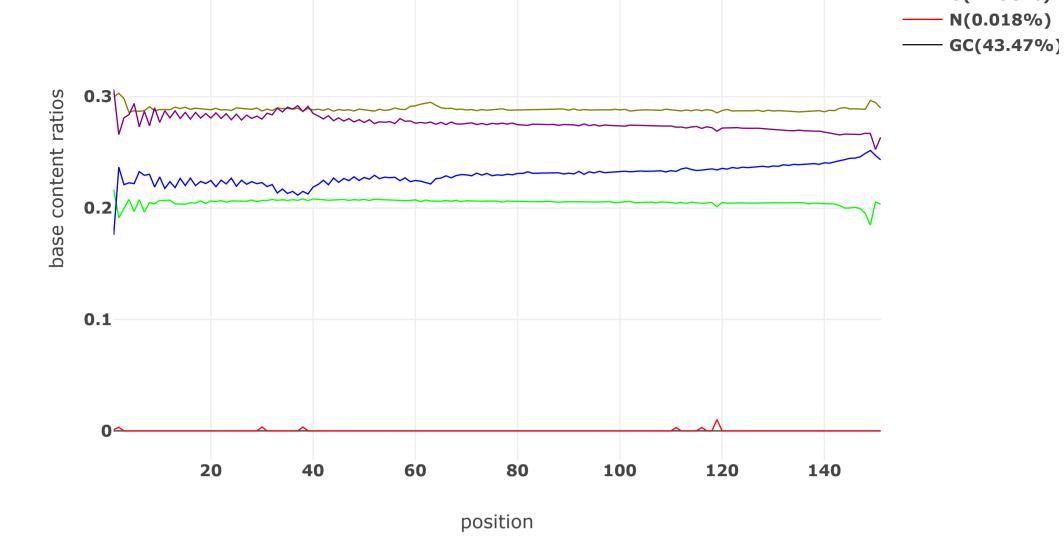
Before filtering: read2: quality

Value of each position will be shown on mouse over.



Before filtering: read2: base contents





Before filtering: read2: KMER counting

Darker background means larger counts. The count will be shown on mouse over.

	AA	AT	AC	AG	TA	TT	TC	TG	CA	CT	CC	CG	GA	GT	GC	GG
AAA	AAAAA	AAAAT	AAAAC	AAAAG	AAATA	AAATT	AAATC	AAATG	AAACA	AAACT	AAACC	AAACG	AAAGA	AAAGT	AAAGC	AAAGG
AAT	AATAA	AATAT	AATAC	AATAG	AATTA	AATTT	AATTC	AATTG	AATCA	AATCT	AATCC	AATCG	AATGA	AATGT	AATGC	AATGG
AAC	AACAA	AACAT	AACAC	AACAG	AACTA	AACTT	AACTC	AACTG	AACCA	AACCT	AACCC	AACCG	AACGA	AACGT	AACGC	AACGG
AAG	AAGAA	AAGAT	AAGAC	AAGAG	AAGTA	AAGTT	AAGTC	AAGTG	AAGCA	AAGCT	AAGCC	AAGCG	AAGGA	AAGGT	AAGGC	AAGGG
ATA	ATAAA	ATAAT	ATAAC	ATAAG	ATATA	ATATT	ATATC	ATATG	ATACA	ATACT	ATACC	ATACG	ATAGA	ATAGT	ATAGC	ATAGG
ATT	ATTAA	ATTAT	ATTAC	ATTAG	ATTTA	ATTTT	ATTTC	ATTTG	ATTCA	ATTCT	ATTCC	ATTCG	ATTGA	ATTGT	ATTGC	ATTGG
ATC	ATCAA	ATCAT	ATCAC	ATCAG	ATCTA	ATCTT	ATCTC	ATCTG	ATCCA	ATCCT	ATCCC	ATCCG	ATCGA	ATCGT	ATCGC	ATCGG
ATG	ATGAA	ATGAT	ATGAC	ATGAG	ATGTA	ATGTT	ATGTC	ATGTG	ATGCA	ATGCT	ATGCC	ATGCG	ATGGA	ATGGT	ATGGC	ATGGG
ACA	ACAAA	ACAAT	ACAAC	ACAAG	ACATA	ACATT	ACATC	ACATG	ACACA	ACACT	ACACC	ACACG	ACAGA	ACAGT	ACAGC	ACAGG
ACT	ACTAA	ACTAT	ACTAC	ACTAG	ACTTA	ACTTT	ACTTC	ACTTG	ACTCA	ACTCT	ACTCC	ACTCG	ACTGA	ACTGT	ACTGC	ACTGG
ACC	ACCAA	ACCAT	ACCAC	ACCAG	ACCTA	ACCTT	ACCTC	ACCTG	ACCCA	ACCCT	ACCCC	ACCCG	ACCGA	ACCGT	ACCGC	ACCGG
ACG	ACGAA	ACGAT	ACGAC	ACGAG	ACGTA	ACGTT	ACGTC	ACGTG	ACGCA	ACGCT	ACGCC	ACGCG	ACGGA	ACGGT	ACGGC	ACGGG
AGA	AGAAA	AGAAT	AGAAC	AGAAG	AGATA	AGATT	AGATC	AGATG	AGACA	AGACT	AGACC	AGACG	AGAGA	AGAGT	AGAGC	AGAGG
AGT	AGTAA	AGTAT	AGTAC	AGTAG	AGTTA	AGTTT	AGTTC	AGTTG	AGTCA	AGTCT	AGTCC	AGTCG	AGTGA	AGTGT	AGTGC	AGTGG
AGC	AGCAA	AGCAT	AGCAC	AGCAG	AGCTA	AGCTT	AGCTC	AGCTG	AGCCA	AGCCT	AGCCC	AGCCG	AGCGA	AGCGT	AGCGC	AGCGG
AGG	AGGAA	AGGAT	AGGAC	AGGAG	AGGTA	AGGTT	AGGTC	AGGTG	AGGCA	AGGCT	AGGCC	AGGCG	AGGGA	AGGGT	AGGGC	AGGGG
TAA	TAAAA	TAAAT	TAAAC	TAAAG	TAATA	TAATT	TAATC	TAATG	TAACA	TAACT	TAACC	TAACG	TAAGA	TAAGT	TAAGC	TAAGG
TAT	TATAA	TATAT	TATAC	TATAG	TATTA	TATTT	TATTC	TATTG	TATCA	TATCT	TATCC	TATCG	TATGA	TATGT	TATGC	TATGG
TAC	TACAA	TACAT	TACAC	TACAG	TACTA	TACTT	TACTC	TACTG	TACCA	TACCT	TACCC	TACCG	TACGA	TACGT	TACGC	TACGG
TAG	TAGAA	TAGAT	TAGAC	TAGAG	TAGTA	TAGTT	TAGTC	TAGTG	TAGCA	TAGCT	TAGCC	TAGCG	TAGGA	TAGGT	TAGGC	TAGGG
TTA	TTAAA	TTAAT	TTAAC	TTAAG	TTATA	TTATT	TTATC	TTATG	TTACA	TTACT	TTACC	TTACG	TTAGA	TTAGT	TTAGC	TTAGG
TTT		TTTAT	TTTAC	TTTAG	TTTTA	TTTTT	TTTTC	TTTTG	TTTCA	TTTCT	TTTCC	TTTCG	TTTGA	TTTGT	TTTGC	TTTGG
TTC	TTCAA	TTCAT	TTCAC	TTCAG	TTCTA	TTCTT	TTCTC	TTCTG	TTCCA	TTCCT	TTCCC	TTCCG	TTCGA	TTCGT	TTCGC	TTCGG
TTG	TTGAA	TTGAT	TTGAC	TTGAG	TTGTA	TTGTT	TTGTC	TTGTG	TTGCA	TTGCT	TTGCC	TTGCG	TTGGA	TTGGT	TTGGC	TTGGG
	TCAAA	TCAAT	TCAAC	TCAAG	TCATA	TCATT	TCATC	TCATG	TCACA	TCACT	TCACC	TCACG	TCAGA	TCAGT	TCAGC	TCAGG
TCT	TCTAA	TCTAT	TCTAC	TCTAG	TCTTA	TCTTT	TCTTC	TCTTG	TCTCA	TCTCT	TCTCC	TCTCG	TCTGA	TCTGT	TCTGC	TCTGG
TCC	TCCAA	TCCAT	TCCAC	TCCAG	TCCTA	TCCTT	TCCTC	TCCTG	TCCCA	TCCCT	TCCCC	TCCCG	TCCGA	TCCGT	TCCGC	TCCGG
	TCGAA	TCGAT	TCGAC	TCGAG	TCGTA	TCGTT	TCGTC	TCGTG	TCGCA	TCGCT	TCGCC	TCGCG	TCGGA	TCGGT	TCGGC	TCGGG
TGA	TGAAA	TGAAT	TGAAC	TGAAG	TGATA	TGATT	TGATC	TGATG	TGACA	TGACT	TGACC	TGACG	TGAGA	TGAGT	TGAGC	TGAGG
TGT	TGTAA	TGTAT	TGTAC	TGTAG	TGTTA	TGTTT	TGTTC	TGTTG	TGTCA	TGTCT	TGTCC	TGTCG	TGTGA	TGTGT	TGTGC	TGTGG
TGC	TGCAA	TGCAT	TGCAC	TGCAG	TGCTA	TGCTT	TGCTC	TGCTG	TGCCA	TGCCT	TGCCC	TGCCG	TGCGA	TGCGT	TGCGC	TGCGG
TGG	TGGAA	TGGAT	TGGAC	TGGAG	TGGTA	TGGTT	TGGTC	TGGTG	TGGCA	TGGCT	TGGCC	TGGCG	TGGGA	TGGGT	TGGGC	TGGGG
CAA	CAAAA	CAAAT	CAAAC	CATAG	CAATA	CATTT	CATTC	CATTC	CAACA	CAACT	CAACC	CAACG	CAAGA	CAAGT	CAAGC	CATGG
CAT	CATAA	CATAT	CATAC	CATAG	CATTA	CACTT	CATTC	CACTG	CATCA	CATCT	CATCC	CATCG	CATGA	CATGT	CATGC	CATGG
CAC	CACAA	CACAT	CACAC	CACAG	CACTA	CACTT	CACTC	CACTG	CACCA	CACCT	CACCC	CACCG	CACGA	CACGT	CACGC	CACGG
CAG	CAGAA	CAGAT	CAGAC	CAGAG	CAGTA	CAGTT	CAGTC	CAGTG	CAGCA	CAGCT	CAGCC	CAGCG	CAGGA	CAGGT	CAGGC	CAGGG CTAGG
CTA	CTAAA CTTAA	CTAAT	CTAAC	CTAAG	CTATA	CTATT CTTTT	CTATC	CTATG	CTACA CTTCA	CTACT	CTACC	CTACG	CTAGA	CTAGT	CTAGC	CTAGG
CTT	CTCAA	CTTAT CTCAT	CTTAC CTCAC	CTTAG CTCAG	CTTTA CTCTA	CTCTT	CTTTC CTCTC	CTTTG CTCTG	CTCCA	СТТСТ СТССТ	CTTCC CTCCC	CTTCG CTCCG	CTTGA CTCGA	CTTGT CTCGT	CTTGC CTCGC	CTCGG
CTG		CTGAT	CTGAC	CTGAG	CTGTA	CTGTT	CTGTC	CTGTG	CTGCA	CTGCT	CTGCC	CTGCG	CTGGA	CTGGT	CTGGC	CTGGG
CCA	CCAAA	CCAAT	CCAAC	CCAAG	CCATA	CCATT	CCATC	CCATG	CCACA	CCACT	CCACC	CCACG	CCAGA	CCAGT	CCAGC	CCAGG
CCA	CCTAA	CCTAT	CCTAC	CCTAG	CCTTA	CCTTT	CCTTC	CCTTG	CCTCA	CCTCT	CCTCC	CCTCG	CCTGA	CCTGT	CCTGC	CCAGG
	CCCAA	CCCAT	CCCAC	CCCAG	CCCTA	CCCTT	CCCTC	CCCTG	CCCCA	CCCCT	CCCCC	CCCCG	CCCGA	CCCGT	CCCGC	CCCGG
	CCGAA			CCGAG					CCGCA				CCGGA			
CGA	CGAAA	CGAAT	CGAAC	CGAAG	CGATA	CGATT	CGATC	CGATG	CGACA	CGACT	CGACC	CGACG	CGAGA	CGAGT	CGAGC	CGAGG
CGT		CGTAT	CGTAC	CGTAG	CGTTA	CGTTT	CGTTC	CGTTG	CGTCA	CGTCT	CGTCC	CGTCG	CGTGA	CGTGT	CGTGC	CGTGG
CGC	CGCAA	CGCAT	CGCAC	CGCAG	CGCTA	CGCTT	CGCTC	CGCTG	CGCCA	CGCCT	CGCCC	CGCCG	CGCGA	CGCGT	CGCGC	CGCGG
CGG	CGGAA	CGGAT	CGGAC	CGGAG	CGGTA	CGGTT	CGGTC	CGGTG	CGGCA	CGGCT	CGGCC	CGGCG	CGGGA	CGGGT	CGGGC	CGGGG
GAA	GAAAA	GAAAT	GAAAC	GAAAG	GAATA	GAATT	GAATC	GAATG	GAACA	GAACT	GAACC	GAACG	GAAGA	GAAGT	GAAGC	GAAGG
GAT	GATAA	GATAT	GATAC	GATAG	GATTA	GATTT	GATTC	GATTG	GATCA	GATCT	GATCC	GATCG	GATGA	GATGT	GATGC	GATGG
GAC	GACAA	GACAT	GACAC	GACAG	GACTA	GATTT	GACTC	GACTG	GACCA	GACCT	GACCC	GACCG	GACGA	GACGT	GACGC	GACGG
GAG	GAGAA	GAGAT	GAGAC	GAGAG	GAGTA	GAGTT	GAGTC	GAGTG	GAGCA	GAGCT	GAGCC	GAGCG	GAGGA	GAGGT	GAGGC	GAGGG
GTA	GTAAA	GTAAT	GTAAC	GTAAG	GTATA	GTATT	GTATC	GTATG	GTACA	GTACT	GTACC	GTACG	GTAGA	GTAGT	GTAGC	GTAGG
GTT	GTTAA	GTTAT	GTTAC	GTTAG	GTTTA	GTTTT	GTTTC	GTTTG	GTTCA	GTTCT	GTTCC	GTTCG	GTTGA	GTTGT	GTTGC	GTTGG
	GTCAA	GTCAT	GTCAC	GTCAG	GTCTA	GTCTT	GTCTC	GTCTG	GTCCA	GTCCT	GTCCC	GTCCG	GTCGA	GTCGT	GTCGC	GTCGG
510	0.0717	0.0/11	1	T 0. c/10	0.017	0.011	0.010	1	0.00,0	0.001	0.000	0.000	0.0011	0.001	0.000	-0.000

GTG	GTGAA	GTGAT	GTGAC	GTGAG	GTGTA	GTGTT	GTGTC	GTGTG	GTGCA	GTGCT	GTGCC	GTGCG	GTGGA	GTGGT	GTGGC	GTGGG
GCA	GCAAA	GCAAT	GCAAC	GCAAG	GCATA	GCATT	GCATC	GCATG	GCACA	GCACT	GCACC	GCACG	GCAGA	GCAGT	GCAGC	GCAGG
GCT	GCTAA	GCTAT	GCTAC	GCTAG	GCTTA	GCTTT	GCTTC	GCTTG	GCTCA	GCTCT	GCTCC	GCTCG	GCTGA	GCTGT	GCTGC	GCTGG
GCC	GCCAA	GCCAT	GCCAC	GCCAG	GCCTA	GCCTT	GCCTC	GCCTG	GCCCA	GCCCT	GCCCC	GCCCG	GCCGA	GCCGT	GCCGC	GCCGG
GCG	GCGAA	GCGAT	GCGAC	GCGAG	GCGTA	GCGTT	GCGTC	GCGTG	GCGCA	GCGCT	GCGCC	GCGCG	GCGGA	GCGGT	GCGGC	GCGGG
GGA	GGAAA	GGAAT	GGAAC	GGAAG	GGATA	GGATT	GGATC	GGATG	GGACA	GGACT	GGACC	GGACG	GGAGA	GGAGT	GGAGC	GGAGG
GGT	GGTAA	GGTAT	GGTAC	GGTAG	GGTTA	GGTTT	GGTTC	GGTTG	GGTCA	GGTCT	GGTCC	GGTCG	GGTGA	GGTGT	GGTGC	GGTGG
GGC	GGCAA	GGCAT	GGCAC	GGCAG	GGCTA	GGCTT	GGCTC	GGCTG	GGCCA	GGCCT	GGCCC	GGCCG	GGCGA	GGCGT	GGCGC	GGCGG
GGG	GGGAA	GGGAT	$GGG\DeltaC$	GGGAG	$GGGT\Delta$	GGGTT	GGGTC	GGGTG	GGGCA	GGGCT	GGGCC	GGGCG	GGGGA	GGGGT	GGGGC	GGGGG

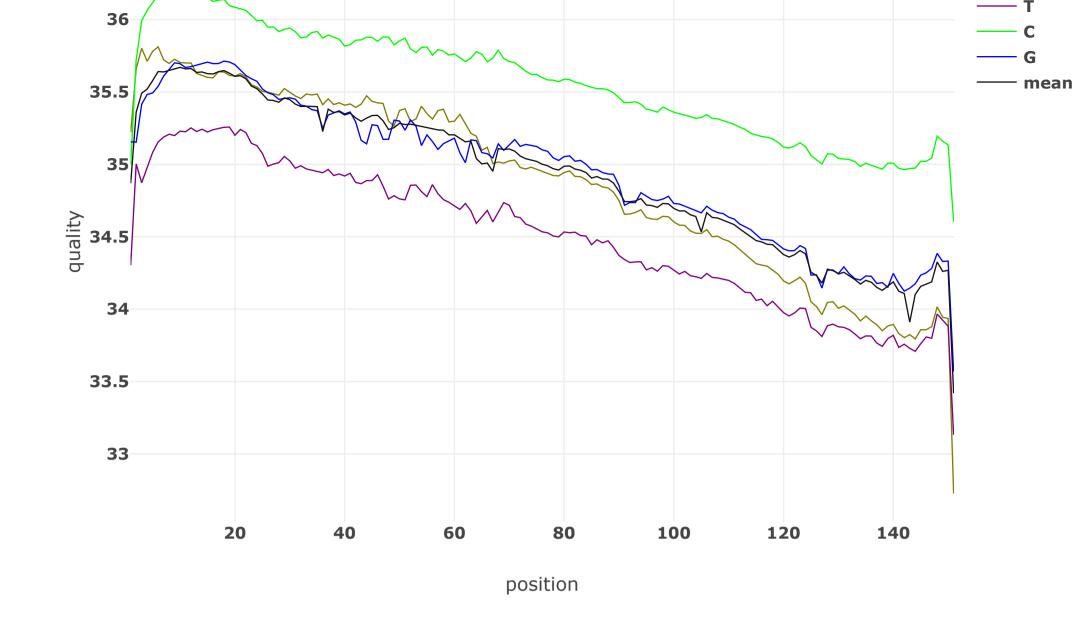
Before filtering: read2: overrepresented sequences

overrepresented sequence	count (% of bases)	distribution: cycle 1 ~ cycle 151
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	392 (0.008611%)	
ACACACACACACACACACACACACACACACACACA	592 (0.005202%)	
ACACACACACACACACACACACACACACACACACAC	11859 (0.104198%)	
ACACACACACACACACACACACACACACACACACACAC	90 (0.001977%)	
ACACACACACACACACACACACACACACACACAG	343 (0.003014%)	
AG	5143 (0.045189%)	
AGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	5083 (0.044661%)	
ATGTGTGTGTGTGTGT	26973 (0.118498%)	
CACACACACACACACACACACACACACACAAA	489 (0.004297%)	
CACACACACACACACACACACACACACACACACA	10615 (0.093268%)	
CACACACACACACACACACACACACACACACACACACA	85 (0.001867%)	
стстстстстстстстстстстстстстст	2778 (0.024409%)	
GA	4430 (0.038924%)	
GCACACACACACACACACACACACACACACACACAC	6867 (0.060336%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	20 (0.000439%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	13 (0.000286%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	28 (0.000615%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	61 (0.001340%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	91 (0.001999%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1429 (0.031390%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	5982 (0.131401%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	4651 (0.152225%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1573 (0.034553%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	288 (0.006326%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	347 (0.007622%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	321 (0.007051%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	326 (0.007161%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	255 (0.005601%)	

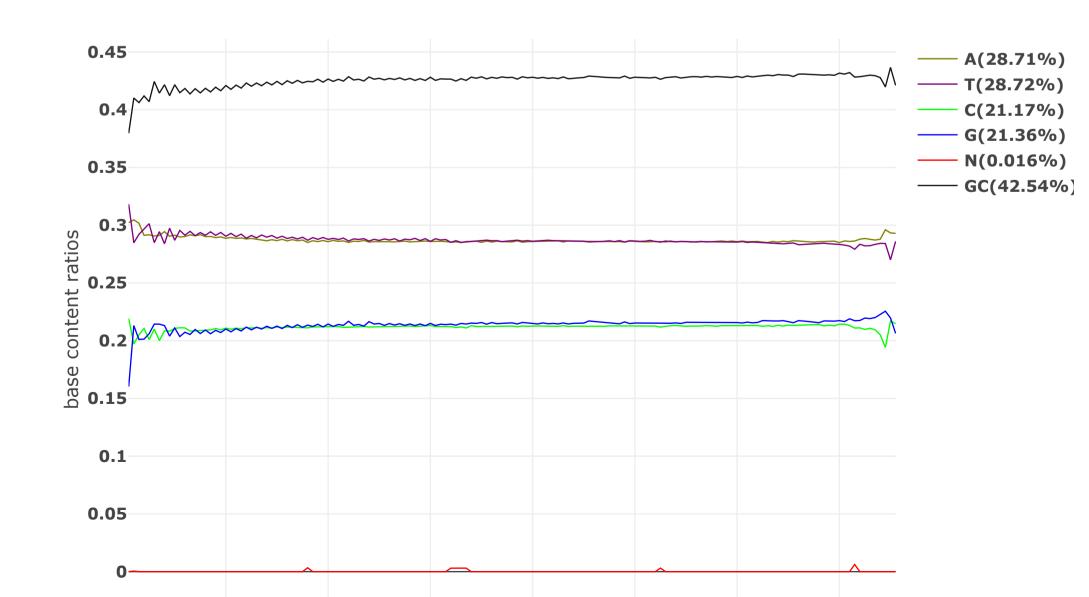
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	267 (0.005865%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	200 (0.004393%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	164 (0.003602%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	131 (0.002878%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	102 (0.002241%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	84 (0.001845%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	85 (0.001867%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	44 (0.000967%)	
GGGGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	552 (0.012125%)	
GGGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	380 (0.008347%)	
GGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	23 (0.000505%)	
GTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	37 (0.000813%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTG	290 (0.002548%)	
<u></u> <u> </u>	6146 (0.054001%)	
TACACACACACACACACACACACACACACACACACA	5745 (0.050478%)	
тстстстстстстстстстстстстстстстс	3879 (0.034083%)	
TGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	41 (0.000901%)	
TGGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	474 (0.010412%)	
TGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1056 (0.023196%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGAG	529 (0.004648%)	
тбтбтбтбтбтбтбтбтбтбтбтбтбтбтбтбт	16785 (0.147480%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTTGTT	527 (0.004630%)	
TTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	515 (0.011313%)	
TTTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	254 (0.005579%)	
TTTTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	185 (0.004064%)	
TTTTTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	646 (0.014190%)	

After filtering

After filtering: read1: quality



After filtering: read1: base contents



position

After filtering: read1: KMER counting

Darker background means larger counts. The count will be shown on mouse over.

AAA	AA	AT	AC	AG	TA	TT	TC	TG	CA	CT	CC AAACC	CG AAACG	GA AAAGA	GT	GC	GG AAAGG
AAA AAT	AAAAA AATAA	AAAAT AATAT	AAAAC AATAC	AAAAG AATAG	AAATA AATTA	AAATT AATTT	AAATC AATTC	AAATG AATTG	AAACA AATCA	AAACT AATCT	AAACC	AAACG	AAAGA	AAAGT AATGT	AAAGC AATGC	AAAGG
AAC	AACAA	AACAT	AACAC	AACAG	AACTA	AACTT	AACTC	AACTG	AACCA	AACCT	AACCC	AACCG	AACGA	AACGT	AACGC	AACGG
AAG	AAGAA	AAGAT	AAGAC	AAGAG	AAGTA	AAGTT	AAGTC	AAGTG	AAGCA	AAGCT	AAGCC	AAGCG	AAGGA	AAGGT	AAGGC	AAGGG
ATA	ATAAA	ATAAT	ATAAC	ATAAG	ATATA	ATATT	ATATC	ATATG	ATACA	ATACT	ATACC	ATACG	ATAGA	ATAGT	ATAGC	ATAGG
ATT	ATTAA	ATTAT	ATTAC	ATTAG	ATTTA	ATTTT	ATTTC	ATTTG	ATTCA	ATTCT	ATTCC	ATTCG	ATTGA	ATTGT	ATTGC	ATTGG
ATC	ATCAA	ATCAT	ATCAC	ATCAG	ATCTA	ATCTT	ATCTC	ATCTG	ATCCA	ATCCT	ATCCC	ATCCG	ATCGA	ATCGT	ATCGC	ATCGG
ATG	ATGAA	ATGAT	ATGAC	ATGAG	ATGTA	ATGTT	ATGTC	ATGTG	ATGCA	ATGCT	ATGCC	ATGCG	ATGGA	ATGGT	ATGGC	ATGGG
ACA	ACAAA	ACAAT	ACAAC	ACAAG	ACATA	ACATT	ACATC	ACATG	ACACA	ACACT	ACACC	ACACG	ACAGA	ACAGT	ACAGC	ACAGG
ACT	ACTAA	ACTAT	ACTAC	ACTAG	ACTTA	ACTTT	ACTTC	ACTTG	ACTCA	ACTCT	ACTCC	ACTCG	ACTGA	ACTGT	ACTGC	ACTGG
ACC	ACCAA	ACCAT	ACCAC	ACCAG	ACCTA	ACCTT	ACCTC	ACCTG	ACCCA	ACCCT	ACCCC	ACCCG	ACCGA	ACCGT	ACCGC	ACCGG
ACG	ACGAA	ACGAT	ACGAC	ACGAG	ACGTA	ACGTT	ACGTC	ACGTG	ACGCA	ACGCT	ACGCC	ACGCG	ACGGA	ACGGT	ACGGC	ACGGG
AGA	AGAAA	AGAAT	AGAAC	AGAAG	AGATA	AGATT	AGATC	AGATG	AGACA	AGACT	AGACC	AGACG	AGAGA	AGAGT	AGAGC	AGAGG
AGT AGC	AGTAA AGCAA	AGTAT AGCAT	AGTAC AGCAC	AGTAG AGCAG	AGTTA AGCTA	AGTTT AGCTT	AGTTC AGCTC	AGTTG AGCTG	AGTCA AGCCA	AGTCT AGCCT	AGTCC AGCCC	AGTCG AGCCG	AGTGA AGCGA	AGTGT AGCGT	AGTGC AGCGC	AGTGG AGCGG
AGC	AGGAA	AGGAT	AGGAC	AGCAG	AGGTA	AGGTT	AGGTC	AGGTG	AGCCA	AGCCT	AGCCC	AGCCG	AGGGA	AGCGT	AGCGC	AGGGG
TAA	TAAAA	TAAAT	TAAAC	TAAAG	TAATA	TAATT	TAATC	TAATG	TAACA	TAACT	TAACC	TAACG	TAAGA	TAAGT	TAAGC	TAAGG
TAT	TATAA	TATAT	TATAC	TATAG	TATTA	TATTT	TATTC	TATTG	TATCA	TATCT	TATCC	TATCG	TATGA	TATGT	TATGC	TATGG
TAC	TACAA	TACAT	TACAC	TACAG	TACTA	TACTT	TACTC	TACTG	TACCA	TACCT	TACCC	TACCG	TACGA	TACGT	TACGC	TACGG
TAG	TAGAA	TAGAT	TAGAC	TAGAG	TAGTA	TAGTT	TAGTC	TAGTG	TAGCA	TAGCT	TAGCC	TAGCG	TAGGA	TAGGT	TAGGC	TAGGG
TTA	TTAAA	TTAAT	TTAAC	TTAAG	TTATA	TTATT	TTATC	TTATG	TTACA	TTACT	TTACC	TTACG	TTAGA	TTAGT	TTAGC	TTAGG
ТТТ	TTTAA	TTTAT	TTTAC	TTTAG	TTTTA	TTTTT	TTTTC	TTTTG	TTTCA	TTTCT	TTTCC	TTTCG	TTTGA	TTTGT	TTTGC	TTTGG
TTC	TTCAA	TTCAT	TTCAC	TTCAG	TTCTA	TTCTT	TTCTC	TTCTG	TTCCA	TTCCT	TTCCC	TTCCG	TTCGA	TTCGT	TTCGC	TTCGG
TTG	TTGAA	TTGAT	TTGAC	TTGAG	TTGTA	TTGTT	TTGTC	TTGTG	TTGCA	TTGCT	TTGCC	TTGCG	TTGGA	TTGGT	TTGGC	TTGGG
TCA	TCAAA	TCAAT	TCAAC	TCAAG	TCATA	TCATT	TCATC	TCATG	TCACA	TCACT	TCACC	TCACG	TCAGA	TCAGT	TCAGC	TCAGG
TCT	TCTAA	TCTAT	TCTAC	TCTAG	TCTTA	TCTTT	TCTTC	TCTTG	TCTCA	TCTCT	TCTCC	TCTCG	TCTGA	TCTGT	TCTGC	TCTGG
TCC	TCCAA	TCCAT	TCCAC	TCCAG	TCCTA	TCCTT	TCCTC	TCCTG	TCCCA	TCCCT	TCCCC	TCCCG	TCCGA	TCCGT	TCCGC	TCCGG
TCG	TCGAA TGAAA	TCGAT TGAAT	TCGAC TGAAC	TCGAG TGAAG	TCGTA TGATA	TCGTT	TCGTC TGATC	TCGTG TGATG	TCGCA TGACA	TCGCT TGACT	TCGCC TGACC	TCGCG TGACG	TCGGA TGAGA	TCGGT TGAGT	TCGGC TGAGC	TCGGG TGAGG
TGA TGT	TGTAA	TGTAT	TGTAC	TGTAG	TGTTA	TGATT TGTTT	TGTTC	TGTTG	TGTCA	TGTCT	TGTCC	TGTCG	TGTGA	TGTGT	TGTGC	TGTGG
TGC	TGCAA	TGCAT	TGCAC	TGCAG	TGCTA	TGCTT	TGCTC	TGCTG	TGCCA	TGCCT	TGCCC	TGCCG	TGCGA	TGCGT	TGCGC	TGCGG
TGG	TGGAA	TGGAT	TGGAC	TGGAG	TGGTA	TGGTT	TGGTC	TGGTG	TGGCA	TGGCT	TGGCC	TGGCG	TGGGA	TGGGT	TGGGC	TGGGG
CAA	CAAAA	CAAAT	CAAAC	CAAAG	CAATA	CAATT	CAATC	CAATG	CAACA	CAACT	CAACC	CAACG	CAAGA	CAAGT	CAAGC	CAAGG
CAT	CATAA	CATAT	CATAC	CATAG	CATTA	CATTT	CATTC	CATTG	CATCA	CATCT	CATCC	CATCG	CATGA	CATGT	CATGC	CATGG
CAC	CACAA	CACAT	CACAC	CACAG	CACTA	CACTT	CACTC	CACTG	CACCA	CACCT	CACCC	CACCG	CACGA	CACGT	CACGC	CACGG
CAG	CAGAA	CAGAT	CAGAC	CAGAG	CAGTA	CAGTT	CAGTC	CAGTG	CAGCA	CAGCT	CAGCC	CAGCG	CAGGA	CAGGT	CAGGC	CAGGG
CTA	CTAAA	CTAAT	CTAAC	CTAAG	CTATA	CTATT	CTATC	CTATG	CTACA	CTACT	CTACC	CTACG	CTAGA	CTAGT	CTAGC	CTAGG
CTT	CTTAA	CTTAT	CTTAC	CTTAG	CTTTA	СТТТТ	СТТТС	CTTTG	CTTCA	CTTCT	CTTCC	CTTCG	CTTGA	CTTGT	CTTGC	CTTGG
CTC	CTCAA	CTCAT	CTCAC	CTCAG	CTCTA	СТСТТ	СТСТС	CTCTG	CTCCA	СТССТ	СТССС	CTCCG	CTCGA	CTCGT	CTCGC	CTCGG
CTG	CTGAA	CTGAT	CTGAC	CTGAG	CTGTA	CTGTT	CTGTC	CTGTG	CTGCA	CTGCT	CTGCC	CTGCG	CTGGA	CTGGT	CTGGC	CTGGG
CCA	CCAAA	CCAAT	CCAAC	CCAAG	CCATA	CCATT	CCATC	CCATG	CCACA	CCACT	CCACC	CCACG	CCAGA	CCAGT	CCAGC	CCAGG
CCT	CCTAA CCCAA	CCTAT CCCAT	CCTAC	CCTAG	CCTTA CCCTA	CCTTT	CCTTC CCCTC	CCTTG CCCTG	CCTCA CCCCA	CCTCT CCCCT	CCCCC	CCTCG		CCTGT	CCTGC	CCTGG CCCGG
CCG		CCGAT	CCGAC		CCGTA	CCGTT	CCGTC	CCGTG	CCGCA	CCGCT	CCGCC	CCGCG	CCGGA	CCGGT	CCGGC	CCGGG
CGA	CGAAA	CGAAT	CGAAC	CGAAG	CGATA	CGATT	CGATC	CGATG	CGACA	CGACT	CGACC	CGACG	CGAGA	CGAGT	CGAGC	CGAGG
CGT	CGTAA	CGTAT	CGTAC	CGTAG	CGTTA	CGTTT	CGTTC	CGTTG	CGTCA	CGTCT	CGTCC	CGTCG	CGTGA	CGTGT	CGTGC	CGTGG
CGC	CGCAA	CGCAT	CGCAC	CGCAG	CGCTA	CGCTT	CGCTC	CGCTG	CGCCA	CGCCT	CGCCC	CGCCG		CGCGT	CGCGC	CGCGG
CGG	CGGAA	CGGAT	CGGAC	CGGAG	CGGTA	CGGTT	CGGTC	CGGTG	CGGCA	CGGCT	CGGCC	CGGCG		CGGGT	CGGGC	CGGGG
GAA	GAAAA	GAAAT	GAAAC	GAAAG	GAATA	GAATT	GAATC	GAATG	GAACA	GAACT	GAACC	GAACG	GAAGA	GAAGT	GAAGC	GAAGG
GAT	GATAA	GATAT	GATAC	GATAG	GATTA	GATTT	GATTC	GATTG	GATCA	GATCT	GATCC	GATCG	GATGA	GATGT	GATGC	GATGG
GAC	GACAA	GACAT	GACAC	GACAG	GACTA	GACTT	GACTC	GACTG	GACCA	GACCT	GACCC	GACCG		GACGT	GACGC	GACGG
GAG	GAGAA	GAGAT	GAGAC	GAGAG	GAGTA	GAGTT	GAGTC	GAGTG	GAGCA	GAGCT	GAGCC	GAGCG	GAGGA	GAGGT	GAGGC	GAGGG
GTA	GTAAA	GTAAT	GTAAC	GTAAG	GTATA	GTATT	GTATC	GTATG	GTACA	GTACT	GTACC	GTACG		GTAGT	GTAGC	GTAGO
GTT	GTTAA	GTTAT	GTTAC	GTTAG	GTTTA	GTTTT	GTTTC	GTTTG	GTTCA	GTTCT	GTTCC	GTTCG	-	GTTGT	GTTGC	GTTGG
GTC	GTCAA	GTCAT	GTCAC	GTCAG	GTCTA	GTCTT	GTCTC	GTCTG	GTCCA	GTCCT	GTCCC	GTCCG	GTCGA	GTCGT	GTCGC	GTCGC
GTG	GTGAA	GTGAT	GTGAC	GTGAG	GTGTA	GTGTT	GTGTC	GTGTG	GTGCA	GTGCT	GTGCC	GTGCG	GTGGA	GTGGT	GTGGC	GTGGG
GCA GCT	GCAAA GCTAA	GCAAT GCTAT	GCAAC GCTAC	GCAAG GCTAG	GCATA GCTTA	GCATT GCTTT	GCATC GCTTC	GCATG GCTTG	GCACA GCTCA	GCACT GCTCT	GCACC GCTCC	GCACG GCTCG	GCAGA GCTGA	GCAGT GCTGT	GCAGC GCTGC	GCAGG GCTGG
GCC	GCCAA	GCCAT	GCCAC	GCCAG	GCCTA	GCCTT	GCCTC	GCCTG	GCCCA	GCCCT	GCCCC	GCCCG	GCCGA	GCCGT	GCCGC	GCCGC
GCG	GCGAA	GCGAT	GCGAC	GCGAG	GCGTA	GCGTT	GCGTC	GCGTG	GCGCA	GCGCT	GCGCC	GCGCG		GCGGT	GCGGC	GCGGC
GGA	GGAAA	GGAAT	GGAAC	GGAAG	GGATA	GGATT	GGATC	GGATG	GGACA	GGACT	GGACC	GGACG	GGAGA	GGAGT	GGAGC	GGAGG
GGT	GGTAA	GGTAT	GGTAC	GGTAG	GGTTA	GGTTT	GGTTC	GGTTG	GGTCA	GGTCT	GGTCC	GGTCG	GGTGA	GGTGT	GGTGC	GGTGG
GGC	GGCAA	GGCAT	GGCAC	GGCAG	GGCTA	GGCTT	GGCTC	GGCTG	GGCCA	GGCCT	GGCCC	GGCCG		GGCGT	GGCGC	GGCGG
GGG	GGGAA	GGGAT	GGGAC	GGGAG	GGGTA	GGGTT	GGGTC	GGGTG	GGGCA	GGGCT	GGGCC	GGGCG	GGGGA	GGGGT	GGGGC	GGGGG

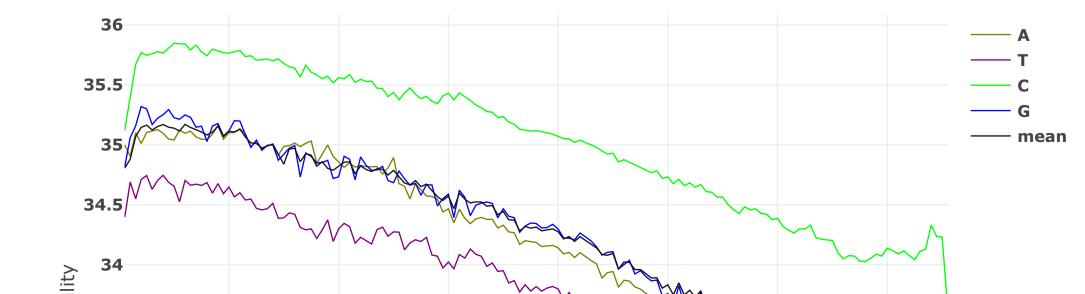
After filtering: read1: overrepresented sequences

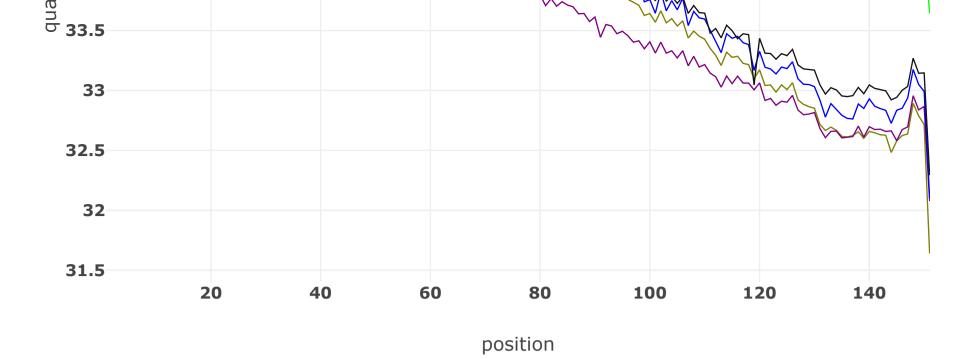
Sampling rate: 1 / 20

overrepresented sequence	count (% of bases)	distribution: cycle 1 ~ cycle 151
АААААААА	27780 (0.073170%)	
AACACACACACACACACACACACACACACACACACA	5293 (0.055765%)	
ACACACACACACACACACACACACACACACACACAAAC	266 (0.002802%)	
ACACACACACACACACACACACACACACACACACACA	209 (0.002202%)	
AC	4967 (0.052330%)	

AC	144 (0.001517%)	
AG	4365 (0.045988%)	
AGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	4142 (0.043639%)	
ATAGATAGATAGATAGATAGATAGATAGATAG	157 (0.001654%)	
ATGTGTGTGTGTGTGT	22475 (0.118394%)	
CACACACACACACACACACACACACACACACAAACA	185 (0.001949%)	
CACACACACACACACACACACACACACACACAAA	316 (0.003329%)	
CACACACACACACACACACACACACACACACACACACA	8488 (0.089426%)	
стстстстстстстстстстстстстстстст	1744 (0.018374%)	
стдтдтдтдтдтдтдтдтдтдтдтдтдтдтдтдтдтдтд	4674 (0.049243%)	
GA	3841 (0.040467%)	
GATAGATAGATAGATAGATAGATAGATAGATA	492 (0.005184%)	
GCACACACACACACACACACACACACACACACACACACA	5883 (0.061981%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	27 (0.000284%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGA	205 (0.002160%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	5193 (0.054711%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTTTT	166 (0.001749%)	
TACACACACACACACACACACACACACACACACACACA	5055 (0.053258%)	
тстстстстстстстстстстстстстстстстс	2469 (0.026012%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGAG	308 (0.003245%)	
тстстстстстстстстстстстстстстстс	9598 (0.101121%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTTGT	277 (0.002918%)	

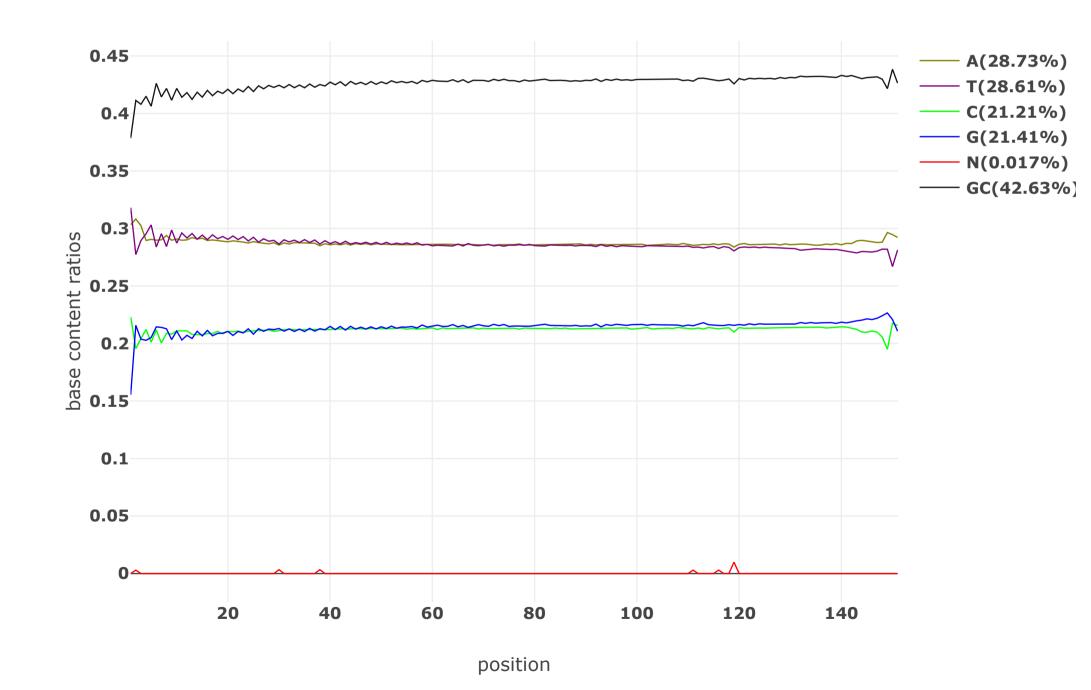
After filtering: read2: quality





After filtering: read2: base contents

Value of each position will be shown on mouse over.



After filtering: read2: KMER counting

Darker background means larger counts. The count will be shown on mouse over.

	AA	AT	AC	AG	TA	TT	TC	TG	CA	CT	CC	CG	GA	GT	GC	GG
AAA	AAAAA	AAAAT	AAAAC	AAAAG	AAATA	AAATT	AAATC	AAATG	AAACA	AAACT	AAACC	AAACG	AAAGA	AAAGT	AAAGC	AAAGG
AAT	AATAA	AATAT	AATAC	AATAG	AATTA	AATTT	AATTC	AATTG	AATCA	AATCT	AATCC	AATCG	AATGA	AATGT	AATGC	AATGG
AAC	AACAA	AACAT	AACAC	AACAG	AACTA	AACTT	AACTC	AACTG	AACCA	AACCT	AACCC	AACCG	AACGA	AACGT	AACGC	AACGG

AAG	AAGAA	AAGAT	AAGAC	AAGAG	AAGTA	AAGTT	AAGTC	AAGTG	AAGCA	AAGCT	AAGCC	AAGCG	AAGGA	AAGGT	AAGGC	AAGGG
ATA	ATAAA	ATAAT	ATAAC	ATAAG	ATATA	ATATT	ATATC	ATATG	ATACA	ATACT	ATACC	ATACG	ATAGA	ATAGT	ATAGC	ATAGG
ATT	ATTAA	ATTAT	ATTAC	ATTAG	ATTTA	ATTTT	ATTTC	ATTTG	ATTCA	ATTCT	ATTCC	ATTCG	ATTGA	ATTGT	ATTGC	ATTGG
ATC	ATCAA	ATCAT	ATCAC	ATCAG	ATCTA	ATCTT	ATCTC	ATCTG	ATCCA	ATCCT	ATCCC	ATCCG	ATCGA	ATCGT	ATCGC	ATCGG
ATG	ATGAA	ATGAT	ATGAC	ATGAG	ATGTA	ATGTT	ATGTC	ATGTG	ATGCA	ATGCT	ATGCC	ATGCG	ATGGA	ATGGT	ATGGC	ATGGG
ACA	ACAAA	ACAAT	ACAAC	ACAAG	ACATA	ACATT	ACATC	ACATG	ACACA	ACACT	ACACC	ACACG	ACAGA	ACAGT	ACAGC	ACAGG
ACT	ACTAA	ACTAT	ACTAC	ACTAG	ACTTA	ACTTT	ACTTC	ACTTG	ACTCA	ACTCT	ACTCC	ACTCG	ACTGA	ACTGT	ACTGC	ACTGG
ACC	ACCAA	ACCAT	ACCAC	ACCAG	ACCTA	ACCTT	ACCTC	ACCTG	ACCCA	ACCCT	ACCCC	ACCCG	ACCGA	ACCGT	ACCGC	ACCGG
ACG	ACGAA	ACGAT	ACGAC	ACGAG	ACGTA	ACGTT	ACGTC	ACGTG	ACGCA	ACGCT	ACGCC	ACGCG	ACGGA	ACGGT	ACGGC	ACGGG
AGA	AGAAA	AGAAT	AGAAC	AGAAG	AGATA	AGATT	AGATC	AGATG	AGACA	AGACT	AGACC	AGACG	AGAGA	AGAGT	AGAGC	AGAGG
AGT	AGTAA	AGTAT	AGTAC	AGTAG	AGTTA	AGTTT	AGTTC	AGTTG	AGTCA	AGTCT	AGTCC	AGTCG	AGTGA	AGTGT	AGTGC	AGTGG
AGC	AGCAA	AGCAT	AGCAC	AGCAG	AGCTA	AGCTT	AGCTC	AGCTG	AGCCA	AGCCT	AGCCC	AGCCG	AGCGA	AGCGT	AGCGC	AGCGG
AGG	AGGAA	AGGAT	AGGAC	AGGAG	AGGTA	AGGTT	AGGTC	AGGTG	AGGCA	AGGCT	AGGCC	AGGCG	AGGGA	AGGGT	AGGGC	AGGGG
TAA	TAAAA	TAAAT	TAAAC	TAAAG	TAATA	TAATT	TAATC	TAATG	TAACA	TAACT	TAACC	TAACG	TAAGA	TAAGT	TAAGC	TAAGG
TAT	TATAA	TATAT	TATAC	TATAG	TATTA	TATTT	TATTC	TATTG	TATCA	TATCT	TATCC	TATCG	TATGA	TATGT	TATGC	TATGG
TAC	TACAA	TACAT	TACAC	TACAG	TACTA	TACTT	TACTC	TACTG	TACCA	TACCT	TACCC	TACCG	TACGA	TACGT	TACGC	TACGG
TAG	TAGAA	TAGAT	TAGAC	TAGAG	TAGTA	TAGTT	TAGTC	TAGTG	TAGCA	TAGCT	TAGCC	TAGCG	TAGGA	TAGGT	TAGGC	TAGGG
TTA	TTAAA	TTAAT	TTAAC	TTAAG	TTATA	TTATT	TTATC	TTATG	TTACA	TTACT	TTACC	TTACG	TTAGA	TTAGT	TTAGC	TTAGG
TTT	TTTAA	TTTAT	TTTAC	TTTAG	TTTTA	TTTTT	TTTTC	TTTTG	TTTCA	TTTCT	TTTCC	TTTCG	TTTGA	TTTGT	TTTGC	TTTGG
TTC	TTCAA	TTCAT	TTCAC	TTCAG	TTCTA	TTCTT	TTCTC	TTCTG	TTCCA	TTCCT	TTCCC	TTCCG	TTCGA	TTCGT	TTCGC	TTCGG
TTG	TTGAA	TTGAT	TTGAC	TTGAG	TTGTA	TTGTT	TTGTC	TTGTG	TTGCA	TTGCT	TTGCC	TTGCG	TTGGA	TTGGT	TTGGC	TTGGG
TCA	TCAAA	TCAAT	TCAAC	TCAAG	TCATA	TCATT	TCATC	TCATG	TCACA	TCACT	TCACC	TCACG	TCAGA	TCAGT	TCAGC	TCAGG
TCT	TCTAA	TCTAT	TCTAC	TCTAG	TCTTA	TCTTT	TCTTC	TCTTG	TCTCA	TCTCT	TCTCC	TCTCG	TCTGA	TCTGT	TCTGC	TCTGG
TCC	TCCAA	TCCAT	TCCAC	TCCAG	TCCTA	TCCTT	TCCTC	TCCTG	TCCCA	TCCCT	TCCCC	TCCCG	TCCGA	TCCGT	TCCGC	TCCGG
TCG	TCGAA	TCGAT	TCGAC	TCGAG	TCGTA	TCGTT	TCGTC	TCGTG	TCGCA	TCGCT	TCGCC	TCGCG	TCGGA	TCGGT	TCGGC	TCGGG
TGA	TGAAA	TGAAT	TGAAC	TGAAG	TGATA	TGATT	TGATC	TGATG	TGACA	TGACT	TGACC	TGACG	TGAGA	TGAGT	TGAGC	TGAGG
TGT	TGTAA	TGTAT	TGTAC	TGTAG	TGTTA	TGTTT	TGTTC	TGTTG	TGTCA	TGTCT	TGTCC	TGTCG	TGTGA	TGTGT	TGTGC	TGTGG
TGC	TGCAA	TGCAT	TGCAC	TGCAG	TGCTA	TGCTT	TGCTC	TGCTG	TGCCA	TGCCT	TGCCC	TGCCG	TGCGA	TGCGT	TGCGC	TGCGG
TGG	TGGAA	TGGAT	TGGAC	TGGAG	TGGTA	TGGTT	TGGTC	TGGTG	TGGCA	TGGCT	TGGCC	TGGCG	TGGGA	TGGGT	TGGGC	TGGGG
CAA	CAAAA	CAAAT	CAAAC	CAAAG	CAATA	CATTT	CATTC	CATTC	CAACA	CATCT	CATCC	CATCC	CAAGA	CATGT	CAAGC	CAAGG
CAT	CATAA	CATAT CACAT	CATAC CACAC	CATAG CACAG	CATTA CACTA	CATTT CACTT	CATTC CACTC	CATTG CACTG	CATCA CACCA	CATCT CACCT	CATCC CACCC	CATCG CACCG	CATGA CACGA	CATGT CACGT	CATGC CACGC	CATGG CACGG
CAC	CACAA CAGAA	CAGAT	CACAC	CACAG	CACTA	CACTT	CACTC	CACTG	CACCA	CACCT	CACCC	CACCG	CACGA	CACGT	CAGGC	CACGG
CTA	CTAAA	CTAAT	CTAAC	CTAAG	CTATA	CTATT	CTATC	CTATG	CTACA	CTACT	CTACC	CTACG	CTAGA	CTAGT	CTAGC	CTAGG
CTT	CTTAA	CTTAT	CTTAC	CTTAG	CTTTA	CTTTT	CTTTC	CTTTG	CTTCA	CTTCT	CTTCC	CTTCG	CTTGA	CTTGT	CTTGC	CTAGG
CTC	CTCAA	CTCAT	CTCAC	CTCAG	CTCTA	СТСТТ	СТСТС	CTCTG	CTCCA	CTCCT	CTCCC	CTCCG	CTCGA	CTCGT	CTCGC	CTCGG
CTG	CTGAA	CTGAT	CTGAC	CTGAG	CTGTA	CTGTT	CTGTC	CTGTG	CTGCA	CTGCT	CTGCC	CTGCG	CTGGA	CTGGT	CTGGC	CTGGG
CCA	CCAAA	CCAAT	CCAAC	CCAAG	CCATA	CCATT	CCATC	CCATG	CCACA	CCACT	CCACC	CCACG	CCAGA	CCAGT	CCAGC	CCAGG
CCT	CCTAA	CCTAT	CCTAC	CCTAG	CCTTA	CCTTT	CCTTC	CCTTG	CCTCA	CCTCT	CCTCC	CCTCG	CCTGA	CCTGT	CCTGC	CCTGG
CCC	CCCAA	CCCAT	CCCAC	CCCAG	CCCTA	CCCTT	СССТС	CCCTG	CCCCA	CCCCT	CCCCC	CCCCG	CCCGA	CCCGT	CCCGC	CCCGG
CCG	CCGAA	CCGAT	CCGAC	CCGAG	CCGTA	CCGTT	CCGTC	CCGTG	CCGCA	CCGCT	CCGCC	CCGCG	CCGGA	CCGGT	CCGGC	CCGGG
CGA	CGAAA	CGAAT	CGAAC	CGAAG	CGATA	CGATT	CGATC	CGATG	CGACA	CGACT	CGACC	CGACG	CGAGA	CGAGT	CGAGC	CGAGG
CGT	CGTAA	CGTAT	CGTAC	CGTAG	CGTTA	CGTTT	CGTTC	CGTTG	CGTCA	CGTCT	CGTCC	CGTCG	CGTGA	CGTGT	CGTGC	CGTGG
CGC	CGCAA	CGCAT	CGCAC	CGCAG	CGCTA	CGCTT	CGCTC	CGCTG	CGCCA	CGCCT	CGCCC	CGCCG	CGCGA	CGCGT	CGCGC	CGCGG
CGG	CGGAA	CGGAT	CGGAC	CGGAG	CGGTA	CGGTT	CGGTC	CGGTG	CGGCA	CGGCT	CGGCC	CGGCG	CGGGA	CGGGT	CGGGC	CGGGG
GAA	GAAAA	GAAAT	GAAAC	GAAAG	GAATA	GAATT	GAATC	GAATG	GAACA	GAACT	GAACC	GAACG	GAAGA	GAAGT	GAAGC	GAAGG
GAT	GATAA	GATAT	GATAC	GATAG	GATTA	GATTT	GATTC	GATTG	GATCA	GATCT	GATCC	GATCG	GATGA	GATGT	GATGC	GATGG
GAC	GACAA	GACAT	GACAC	GACAG	GACTA	GACTT	GACTC	GACTG	GACCA	GACCT	GACCC	GACCG	GACGA	GACGT	GACGC	GACGG
GAG	GAGAA	GAGAT	GAGAC	GAGAG	GAGTA	GAGTT	GAGTC	GAGTG	GAGCA	GAGCT	GAGCC	GAGCG	GAGGA	GAGGT	GAGGC	GAGGG
GTA	GTAAA	GTAAT	GTAAC	GTAAG	GTATA	GTATT	GTATC	GTATG	GTACA	GTACT	GTACC	GTACG	GTAGA	GTAGT	GTAGC	GTAGG
GTT	GTTAA	GTTAT	GTTAC	GTTAG	GTTTA	GTTTT	GTTTC	GTTTG	GTTCA	GTTCT	GTTCC	GTTCG	GTTGA	GTTGT	GTTGC	GTTGG
GTC	GTCAA	GTCAT	GTCAC	GTCAG	GTCTA	GTCTT	GTCTC	GTCTG	GTCCA	GTCCT	GTCCC	GTCCG	GTCGA	GTCGT	GTCGC	GTCGG
GTG	GTGAA	GTGAT	GTGAC	GTGAG	GTGTA	GTGTT	GTGTC	GTGTG	GTGCA	GTGCT	GTGCC	GTGCG	GTGGA	GTGGT	GTGGC	GTGGG
GCA	GCAAA	GCAAT	GCAAC	GCAAG	GCATA	GCATT	GCATC	GCATG	GCACA	GCACT	GCACC	GCACG	GCAGA	GCAGT	GCAGC	GCAGG
GCT	GCTAA	GCTAT	GCTAC	GCTAG	GCTTA	GCTTT	GCTTC	GCTTG	GCTCA	GCTCT	GCTCC	GCTCG	GCTGA	GCTGT	GCTGC	GCTGG
GCC	GCCAA	GCCAT	GCCAC	GCCAG	GCCTA	GCCTT	GCCTC	GCCTG	GCCCA	GCCCT	GCCCC	GCCCG	GCCGA	GCCGT	GCCGC	GCCGG
GCG	GCGAA	GCGAT	GCGAC	GCGAG	GCGTA	GCGTT	GCGTC	GCGTG	GCGCA	GCGCT	GCGCC	GCGCG	GCGGA	GCGGT	GCGGC	GCGGG
GGA	GGAAA	GGAAT	GGAAC	GGAAG	GGATA	GGATT	GGATC	GGATG	GGACA	GGACT	GGACC	GGACG	GGAGA	GGAGT	GGAGC	GGAGG
GGT	GGTAA	GGTAT	GGTAC	GGTAG	GGTTA	GGTTT	GGTTC	GGTTG	GGTCA	GGTCT	GGTCC	GGTCG	GGTGA	GGTGT	GGTGC	GGTGG
GGC	GGCAA	GGCAT	GGCAC	GGCAG	GGCTA	GGCTT	GGCTC	GGCTG	GGCCA	GGCCT	GGCCC	GGCCG	GGCGA	GGCGT	GGCGC	GGCGG
GGG	GGGAA	GGGAT	GGGAC	GGGAG	GGGTA	GGGTT	GGGTC	GGGTG	GGGCA	GGGCT	GGGCC	GGGCG	GGGGA	GGGGT	GGGGC	GGGGG

After filtering: read2: overrepresented sequences Sampling rate: 1 / 20

overrepresented sequence	count (% of bases)	distribution: cycle 1 ~ cycle 151
ACACACACACACACACACACACACACACACACACA	362 (0.003815%)	
AC	8955 (0.094382%)	
ACACACACACACACACACACACACACACACACACACAC	83 (0.002187%)	
AC	228 (0.002403%)	
AG	3720 (0.039207%)	
AGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	3859 (0.040672%)	
ATGTGTGTGTGTGTGT	20270 (0.106819%)	
CACACACACACACACACACACACACACACACACAAA	344 (0.003626%)	
CACACACACACACACACACACACACACACACACACACA	7971 (0.084011%)	
CACACACACACACACACACACACACACACACACACACA	72 (0.001897%)	
стстстстстстстстстстстстстстст	2203 (0.023219%)	

GA	3368 (0.035497%)	
GCACACACACACACACACACACACACACACACACACACA	5565 (0.058653%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGA	183 (0.001929%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	4799 (0.050579%)	
TACACACACACACACACACACACACACACACACACACA	4622 (0.048714%)	
тстстстстстстстстстстстстстстстс	3199 (0.033716%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGAG	287 (0.003025%)	
тстстстстстстстстстстстстстстстс	12612 (0.132925%)	
тстстстстстстстстстстстстстстстт	370 (0.003900%)	

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