PE500

Summary

General

fastp version:	0.19.4 (https://github.com/OpenGene/fastp)				
sequencing:	paired end (151 cycles + 151 cycles)				
mean length before filtering:	.51bp, 151bp				
mean length after filtering:	145bp, 145bp				
duplication rate:	3.224185%				
Insert size peak:	151				

Before filtering

total reads:	626.930540 M					
total bases:	4.666512 G					
Q20 bases:	88.200403 G (93.169592%)					
Q30 bases:	81.377053 G (85.961817%)					
GC content:	46.100595%					

After filtering

total reads:	560.908090 M				
total bases:	1.520791 G				
Q20 bases:	78.227138 G (95.959739%)				
Q30 bases:	73.054111 G (89.614085%)				
GC content:	44.938075%				

Filtering result

reads passed filters:	560.908090 M (89.468937%)
reads with low quality:	56.690870 M (9.042608%)
reads with too many N:	7.190000 K (0.001147%)
reads too short:	9.054458 M (1.444252%)
reads with low complexity:	269.932000 K (0.043056%)

Adapters

Adapter or bad ligation of read1

Sequence	Occurrences
A	1033797
AG	929090
AGA	910281
AGAT	864892
AGATC	910313

AGATCG	977338
AGATCGG	1059735
AGATCGGA	1174153
AGATCGGAA	1223235
AGATCGGAAG	1199592
AGATCGGAAGA	1131625
AGATCGGAAGAG	992388
AGATCGGAAGAGC	856275
AGATCGGAAGAGCA	771175
AGATCGGAAGAGCAC	738837
AGATCGGAAGAGCACA	765765
AGATCGGAAGAGCACAC	856779
AGATCGGAAGAGCACACG	956141
AGATCGGAAGAGCACACGT	960327
AGATCGGAAGAGCACACGTC	943378
AGATCGGAAGAGCACACGTCT	835385
AGATCGGAAGAGCACACGTCTG	709809
AGATCGGAAGAGCACACGTCTGA	637206
AGATCGGAAGAGCACACGTCTGAA	589264
AGATCGGAAGAGCACACGTCTGAAC	567563
AGATCGGAAGACCACGTCTGAACT	561485
AGATCGGAAGAGCACACGTCTGAACTC	624373
AGATCGGAAGAGCACACGTCTGAACTCC	721692
AGATCGGAAGACCACCGTCTGAACTCCA	841493
AGATCGGAAGAGCACACGTCTGAACTCCAG	883746
AGATCGGAAGAGCACACGTCTGAACTCCAGT	774493
AGATCGGAAGAGCACACGTCTGAACTCCAGTC	677333
AGATCGGAAGAGCACACGTCTGAACTCCAGTCA	565705
AGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	545302
AGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAAC	638461
AGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAACC	714643
AGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAACCT	680972
AGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAACCTT	544840
AGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAACCTTCGATCTCGTATGCCGTCTTCTGCTTGAAAA	538762
other adapter sequences	20910982

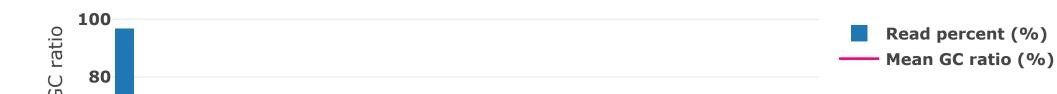
Adapter or bad ligation of read2

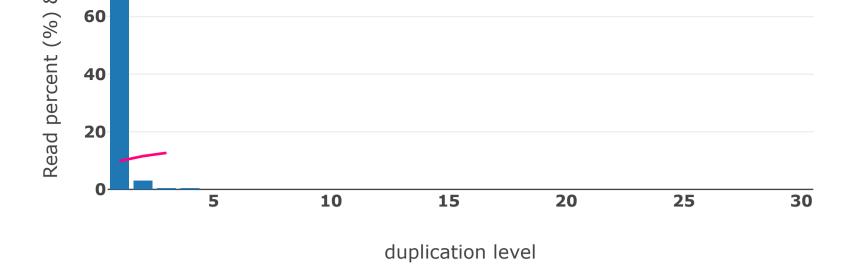
Sequence	Occurrences
A	1035436
AG	925342
AGA	911933
AGAT	869486

AGATC	913610		
AGATCG	981177		
AGATCGG	1077188		
AGATCGGA	1174031		
AGATCGGAA	1202065		
AGATCGGAAG	1201776		
AGATCGGAAGA	1123312		
AGATCGGAAGAG	996671		
AGATCGGAAGAGC	860931		
AGATCGGAAGAGCG	773211		
AGATCGGAAGAGCGT	707223		
AGATCGGAAGAGCGTC	760605		
AGATCGGAAGAGCGTCG	862328		
AGATCGGAAGAGCGTCGT	903740		
AGATCGGAAGAGCGTCGTG	975413		
AGATCGGAAGAGCGTCGTGT	908076		
AGATCGGAAGAGCGTCGTGTA	772870		
AGATCGGAAGAGCGTCGTGTAG	681848		
AGATCGGAAGAGCGTCGTGTAGG	611109		
AGATCGGAAGAGCGTCGTGTAGGG	561039		
AGATCGGAAGAGCGTCGTGTAGGGA	545722		
AGATCGGAAGAGCGTCGTGTAGGGAA	543084		
AGATCGGAAGAGCGTCGTGTAGGGAAA	574070		
AGATCGGAAGAGCGTCGTGTAGGGAAAG	669251		
AGATCGGAAGAGCGTCGTGTAGGGAAAGA	775721		
AGATCGGAAGAGCGTCGTGTAGGGAAAGAG	817474		
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGT	755947		
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTG	623882		
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGG	581197		
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGC	648042		
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCA	603928		
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTG	795009		
other adapter sequences	23248834		
	'		

Duplication

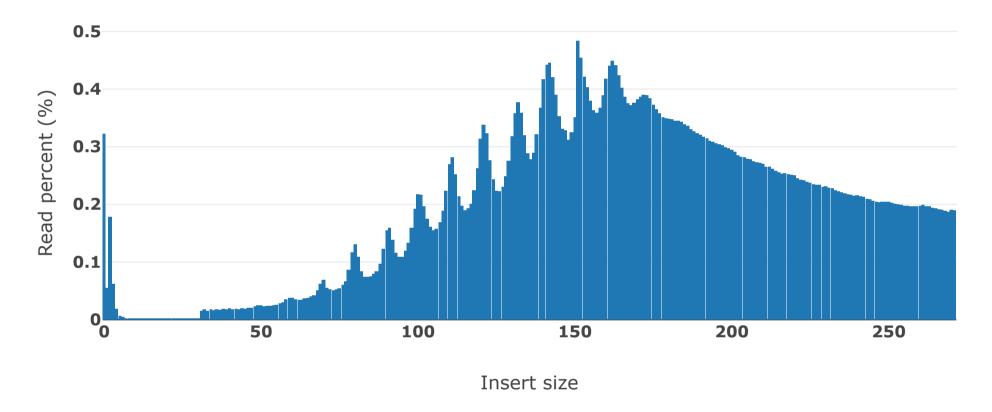
duplication rate (3.224185%)





Insert size estimation

Insert size distribution (46.807262% reads are with unknown length)



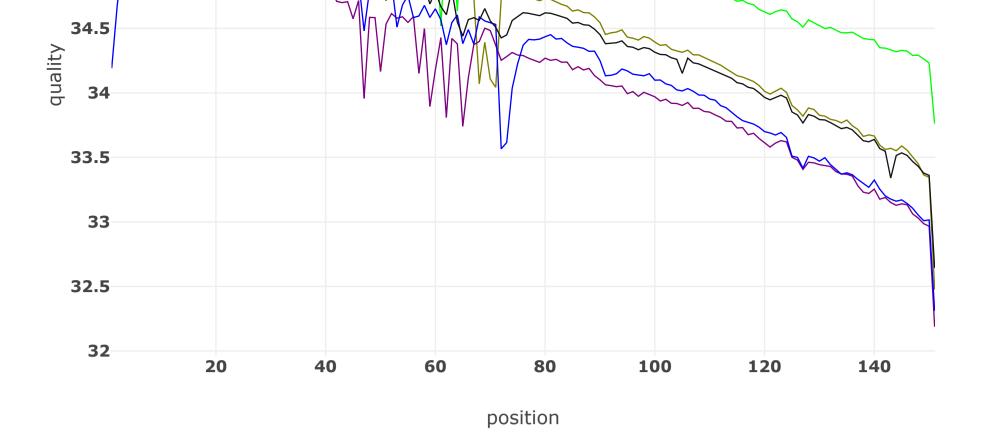
This estimation is based on paired—end overlap analysis, and there are 46.807262% reads found not overlapped.

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

Before filtering

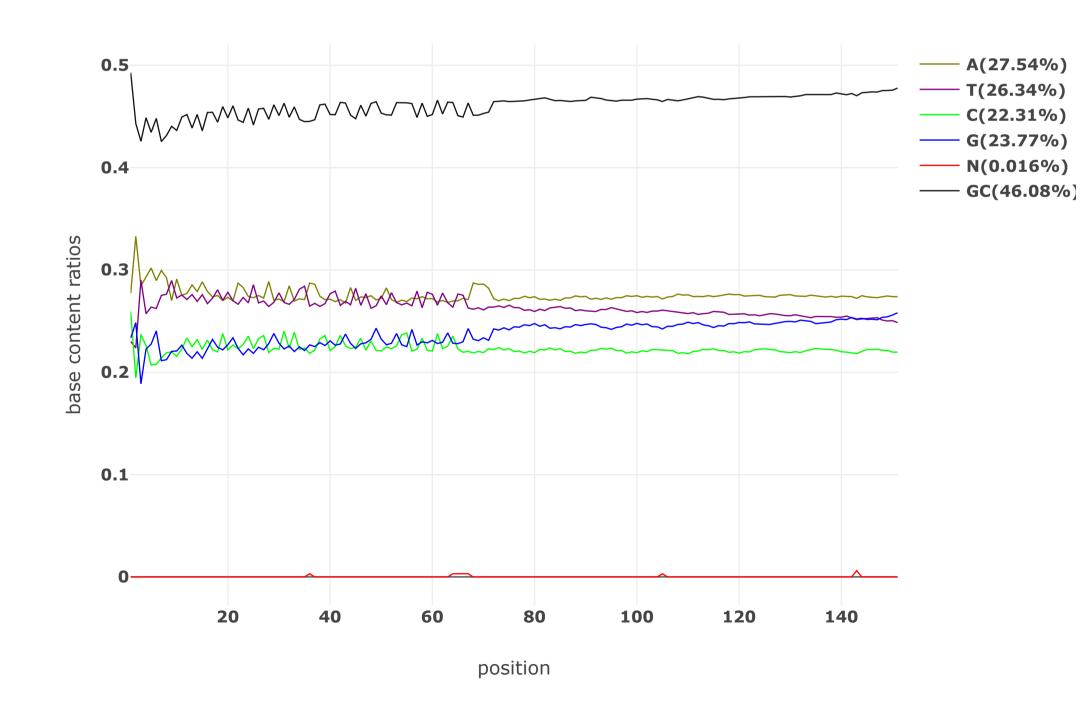
Before filtering: read1: quality Value of each position will be shown on mouse over.

36 — T — C — G — mean



Before filtering: read1: base contents

Value of each position will be shown on mouse over.



Before filtering: read1: KMER counting

Dar	ker bac	kground	means	larger	counts	. The c	ount wi	.ll be s	shown or	n 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 ATAAA	AAGAT ATAAT	AAGAC ATAAC	AAGAG ATAAG	AAGTA ATATA	AAGTT ATATT	AAGTC ATATC	AAGTG ATATG	AAGCA ATACA	AAGCT ATACT	AAGCC ATACC	AAGCG ATACG	AAGGA ATAGA	AAGGT ATAGT	AAGGC ATAGC	AAGGG ATAGG
ATT	ATTAA	ATTAT	ATTAC	ATTAG	ATTTA	ATTTT	ATTTC	ATTTG	ATTCA	ATTCT	ATTCC	ATTCG	ATTGA	ATTGT	ATAGC	ATAGG
ATC	ATCAA	ATCAT	ATCAC	ATCAG	ATCTA	ATCTT	ATCTC	ATCTG	ATCCA	ATTCT	ATCCC	ATTCG	ATCGA	ATTGT	ATTGC	ATCGG
ATG	ATGAA	ATGAT	ATGAC	ATGAG	ATGTA	ATGTT	ATGTC	ATGTG	ATGCA	ATGCT	ATGCC	ATGCG	ATGGA	ATGGT	ATGGC	ATGGG
ACA		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 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	AGGAG	AGGTA	AGGTT	AGGTC	AGGTG	AGCCA	AGCCT	AGCCC	AGCCG	AGGGA	AGCGT	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		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	TCATC	TTGTG	TTGCA	TTGCT	TTGCC	TTGCG	TTGGA	TTGGT	TTGGC	TTGGG
TCA	TCAAA TCTAA	TCAAT TCTAT	TCAAC TCTAC	TCAAG TCTAG	TCATA TCTTA	TCATT TCTTT	TCATC TCTTC	TCATG TCTTG	TCACA TCTCA	TCACT TCTCT	TCACC TCTCC	TCACG TCTCG	TCAGA TCTGA	TCAGT TCTGT	TCAGC TCTGC	TCAGG 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		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		TGGGA	TGGGT	TGGGC	TGGGG
CAA		CAAAT	CAAAC	CAAAG	CAATA	CAATT	CAATC	CAATG	CAACA	CAACT	CAACC	CAACG	CAAGA	CAAGT	CAAGC	CAAGG
CAT	CATAA CACAA	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
CAG	CAGAA	CAGAT	CAGAC	CAGAG	CAGTA	CACTT	CAGTC	CAGTG	CACCA	CACCT	CAGCC	CACCG	CAGGA	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	СТТТС	CTTTG	CTTCA	СТТСТ	СТТСС	CTTCG	CTTGA	CTTGT	CTTGC	CTTGG
CTC	CTCAA	CTCAT	CTCAC	CTCAG	СТСТА	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		CCTAT	CCTAC	CCTAG	CCTTA	CCTTT	CCTTC	CCTTG	CCTCA	ССТСТ	CCTCC	CCTCG	CCTGA	CCTGT	CCTGC	CCTGG
CCG	CCGAA	CCCAT	CCGAC	CCCAG	CCCTA CCGTA					CCGCT			CCGGA	CCGGT	CCGGC	
CGA	CGAAA	CGAAT	CGAAC	CGAAG	CGATA	CGATT	CGATC	CGATG	CGACA	CGACT	CGACC	CGACG	CGAGA	CGAGT	CGAGC	CGAGG
CGT	CGTAA	CGTAT	CGTAC	CGTAG	CGTTA	CGTTT		CGTTG	CGTCA	CGTCT	CGTCC	CGTCG	CGTGA	CGTGT	CGTGC	CGTGG
CGC	CGCAA	CGCAT	CGCAC	CGCAG	CGCTA	CGCTT		CGCTG	CGCCA	CGCCT	CGCCC		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 GTTAA	GTAAT GTTAT	GTAAC GTTAC	GTAAG GTTAG	GTATA GTTTA	GTATT GTTTT	GTATC GTTTC	GTATG GTTTG	GTACA GTTCA	GTACT GTTCT	GTACC GTTCC	GTACG GTTCG	GTAGA GTTGA	GTAGT GTTGT	GTAGC GTTGC	GTAGG 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		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 GGCAA	GGTAT GGCAT	GGTAC	GGTAG	GGTTA GGCTA	GGTTT	GGTTC	GGTTG	GGTCA GGCCA	GGTCT GGCCT	GGTCC	GGTCG GGCCG	GGTGA	GGTGT GGCGT	GGTGC GGCGC	GGTGG GGCGG
GGC		GGGAT	GGCAC GGGAC	GGCAG GGGAG	GGGTA	GGCTT GGGTT	GGCTC GGGTC	GGCTG GGGTG	GGCCA	GGGCT	GGCCC GGGCC	GGGCG	GGCGA GGGGA	GGGGT	GGGGC	GGGGG
300	- 000/h/h		_ ooone	_ 000/10		- 00011		_ 00010			- 00000	00000		00001		00000

Before filtering: read1: overrepresented sequences Sampling rate: 1 / 20

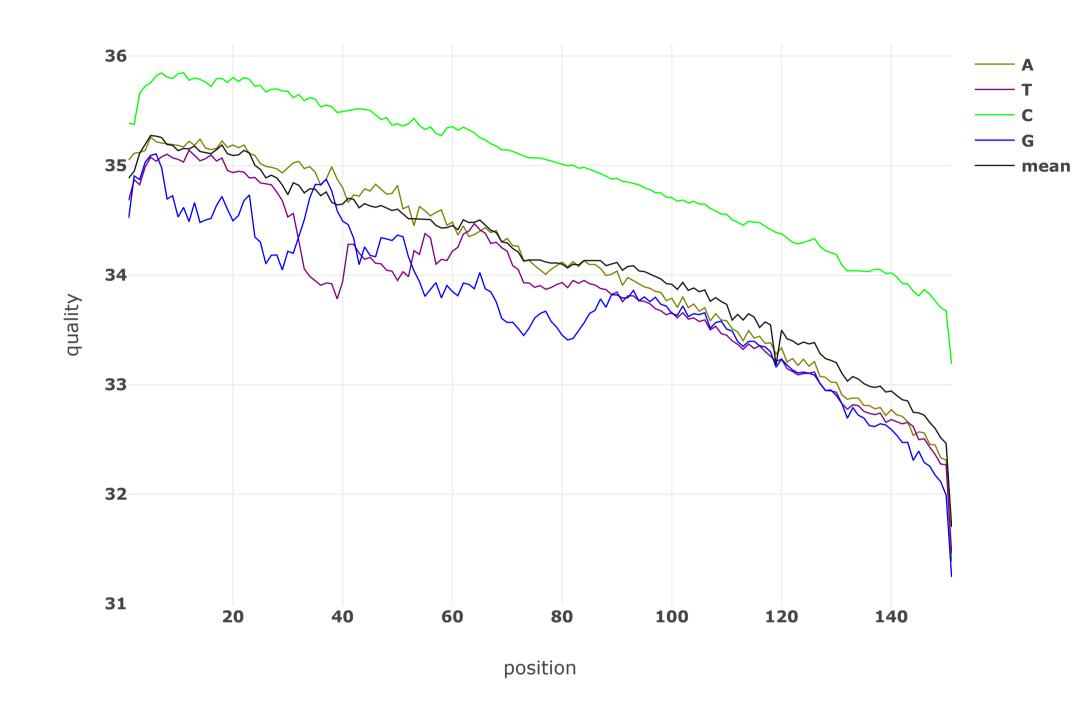
overrepresented sequence	count (% of bases)	distribution: cycle 1 ~ cycle 151
АААААААА	196364 (0.082971%)	
AACACACACACACACACACACACACACACACACACACA	39015 (0.065941%)	
AAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAAC	30455 (0.051473%)	
ACAAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTA	32048 (0.054166%)	
ACACACACACACACACACACACACACACACACACA	1432 (0.002420%)	
AC	35817 (0.060536%)	
ACACACACACACACACACACACACACACACACACACAC	837 (0.003537%)	
AC	1006 (0.001700%)	
ACAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	49438 (0.083557%)	

AG	15042 (0.025423%)	
AGAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	47750 (0.080704%)	
AGATCGGAAGACCACGTCTGAACTCCAGTCACTTAACC	297 (0.000502%)	
AGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAACCTTCGATCTCGTATGCCGTCTTCTGCTTGAAA AGGGGGGGGGG	6492 (0.027431%)	
AGGAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTA	26694 (0.045117%)	
ATAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	43281 (0.073151%)	
ATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAACCTTCGATCGCGTATGCCGTCTTCTGCTTGAAAAGGGGGGGG	38 (0.000239%)	
ATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAACCTTCGATCTCGTATGCCGTCTTCTGCTTGAAAAGGGGGGGG	165 (0.001039%)	
ATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAACCTTCGATCTCGTATGCCGTCTTCTGCTTGAAAAT GGGGGGGGGG	42 (0.000264%)	
ATCTCGTATGCCGTCTTCTGCGTGAAAAGGGGGGGGGGG	7 (0.000030%)	
ATGCCGTCTTCTGCGTGAAAAGGGGGGGGGGGGGGGGGG	297 (0.001255%)	
ATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	35359 (0.059762%)	
CAAGATCGGAAGACCACGTCTGAACTCCAGTCACTTAA	44723 (0.075588%)	
CACACACACACACACACACACACACACACACACAAA	2579 (0.004359%)	
CACACACACACACACACACACACACACACACACACACA	35227 (0.059539%)	
CACACACACACACACACACACACACACACACACACACA	1097 (0.004635%)	
CACACACACACACACACACACACACACACACACACACAC	700 (0.001183%)	
CAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAAC	33 (0.000056%)	
CCAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	58292 (0.098522%)	
CGAGATCGGAAGACCACGTCTGAACTCCAGTCACTTAA	39784 (0.067241%)	
CGTATGCCGTCTTCTGCGTGAAAAGGGGGGGGGGGGGGG	2816 (0.011899%)	
CTAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	36161 (0.061117%)	
CTCGTATGCCGTCTTCTGCGTGAAAAGGGGGGGGGGGGG	12 (0.000051%)	
стстстстстстстстстстстстстстст	8487 (0.014344%)	
CTTCGATCTCGTATGCCGTCTTCTGCGTGAAAAGGGGGGGG	6005 (0.025373%)	
GAAGATCGGAAGACCACGTCTGAACTCCAGTCACTTAA	31593 (0.053397%)	
GA	13545 (0.022893%)	
GAGATCGGAAGACCACGTCTGAACTCCAGTCACTTAAC	66 (0.000112%)	
GATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAACCT	200478 (0.338837%)	
GATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAACCTTCGATCGCGTATGCCGTCTTCTGCTTGAAAA GGGGGGGGGG	17397 (0.109528%)	
GATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAACCTTCGATCTCGTATGCCGTCTTCTGCTTGAAAA GGGGGGGGGG	70011 (0.440774%)	
GATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAACCTTCGATCTCGTATGCCGTCTTCTGCTTGAAAA TGGGGGGGGGG	9153 (0.057625%)	

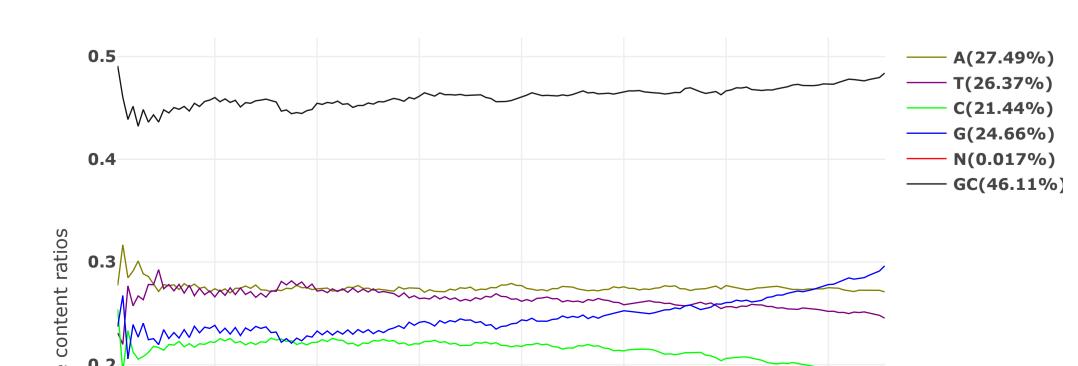
GCACACACACACACACACACACACACACACACACACACA	45650 (0.077155%)	
GCAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	42275 (0.071451%)	
GGAGATCGGAAGACCACGTCTGAACTCCAGTCACTTAA	33696 (0.056951%)	
GGGAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTA	31575 (0.053366%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	456173 (0.770998%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	17906 (0.075659%)	
GTAGATCGGAAGACCACGTCTGAACTCCAGTCACTTAA	24887 (0.042063%)	
GTATGCCGTCTTCTGCGTGAAAAGGGGGGGGGGGGGGGG	38 (0.000161%)	
GTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	17443 (0.073703%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGA	2295 (0.003879%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	67591 (0.114238%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	349 (0.001475%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTTTT	1054 (0.001781%)	
TAAGATCGGAAGACCACGTCTGAACTCCAGTCACTTAA	46209 (0.078100%)	
TACACACACACACACACACACACACACACACACACACA	34986 (0.059131%)	
TAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAAC	66 (0.000112%)	
TCACACACACACACACACACACACACACACACACACACA	31986 (0.054061%)	
TCAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	52466 (0.088675%)	
TCGATCTCGTATGCCGTCTTCTGCGTGAAAAGGGGGGGGG	13 (0.000055%)	
TCTAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTA	17975 (0.030380%)	
TCTCGTATGCCGTCTTCTGCGTGAAAAGGGGGGGGGGGG	5 (0.000021%)	
тстстстстстстстстстстстстстстстс	10024 (0.016942%)	
TGAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	64361 (0.108779%)	
TGCCGTCTTCTGCTTGAAAAGGGGGGGGGGGGGGGGGGG	2210 (0.009338%)	
TGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	23224 (0.098130%)	
TGTAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTA	20609 (0.034832%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGAG	2543 (0.004298%)	
тдттататататататататататататата	47868 (0.080904%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	515 (0.002176%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTT	1135 (0.001918%)	
TTAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	41148 (0.069546%)	
TTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	29671 (0.050148%)	
TTTAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTA	24687 (0.041725%)	

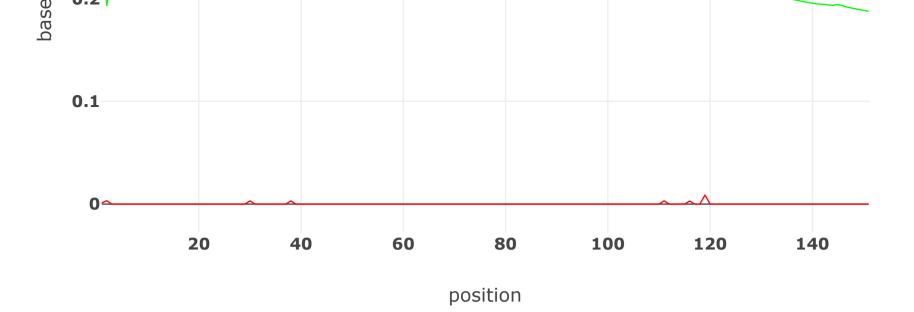
Before filtering: read2: quality

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.

AMAY AMAMA AMAM AMAM AMAM AMAM AMAM AMA		AA	AT	AC	AG	TA	TT	TC	TG	CA	СТ	СС	CG	GA	GT	GC	GG
AACA AACAA AACAT AACAC AACAC AACTA MACTI AACTC AACTC AACCC AACCC AACCC AACCC AACACCA A	AAA	AAAA	AAAAT	AAAAC	AAAAG	AAATA	AAATT	AAATC	AAATG	AAACA	AAACT	AAACC	AAACG	AAAGA	AAAGT	AAAGC	AAAGG
AAGA AAGAA AAGA AAGA AAGA AAGA AAGA AA	AAT	AATAA	AATAT	AATAC	AATAG	AATTA	AATTT	AATTC	AATTG			AATCC	AATCG		AATGT		AATGG
ATTA ATTAM A							-	AACTC									AACGG
ATT ATTAM AT							-							-			AAGGG
ATC ATCAL ATCAL TACA ATCAL ATC																	ATAGG
ATG ATGAL ACT ATGAL ACT AGAC ACCA ACCA ACCA ACCA ACCA ACCA																	ATTGG
ACA ACAAA ACAAT ACAC ACAG ACATA ACATA ACAT ACAG ACATA ACATT ACATT ACATT ACTT AC							-							-			ATCGG
ACT ACCA ACCAT ACTAC ACTAC ACTAC ACTA ACTT ACTT ACTT ACTG ACTG																	ATGGG ACAGG
ACC ACCAD ACCAT ACCAD ACCAT ACCAD AC																	ACAGG
AGG ACGAN AGGAT ACGAC A																	ACCGG
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AGG AGGAT AGGAT AGGAT AGGAT AGGAT AGGAT AGGAT AGGT AGGT AGGT AGGT AGGT AGGT AGGT AGGAT AGAT A	AGT	AGTAA	AGTAT	AGTAC	AGTAG	AGTTA	AGTTT	AGTTC	AGTTG	AGTCA		AGTCC	AGTCG		AGTGT	AGTGC	AGTGG
ΤΑΑ ΤΑΑΑ ΤΤΑΑ ΤΤΑΑΑ ΤΤΑΑΑ ΤΤΑΑΑ ΤΤΑΑΑ	AGC	AGCAA	AGCAT	AGCAC	AGCAG	AGCTA	AGCTT	AGCTC	AGCTG	AGCCA	AGCCT	AGCCC	AGCCG	AGCGA	AGCGT	AGCGC	AGCGG
TAL TATAA TATAT TATAC TATAG TATTA TATTT TATTC TATTG TATCA TATCT TATCC TATCG TATCG TACAG TACAG TACAG TACAG TACTA TACT TAGCT TAGC TAGA TAGAA TAGAT TAGAC TAGAG TAGAT TAGTT TAGTT TAGTC TAGCA TAGCT TAGCC TAGCG TAGGG TAGGA TAGGT TAGGC TAGA TAGAT TAGAC TAGAG TAGAT TAGTT TAGTT TAGTC TAGCA TAGCT TAGCC TAGCG TAGGG TAGGA TAGGT TAGGC TAGA TAGAT TAGAT TAGAC TAGAG TAGAT TAGTT TAGTT TAGTC TAGCA TAGCT TAGCC TAGCG TAGGG TAGGA TAGGT TAGGC TAGA TAGAT TAGAT TAGAC TAGAG TAGAT TAGTT TAGTT TAGTC TAGCA TAGCT TAGCC TAGCG TAGGG TAGGG TAGGA TAGGT TAGTTAMA TITAM TITAM TITAM TITAM TATAT TATTT TATTT TATTT TAGT TAGCA TAGA TAGAT TAGAT TAGAT TAGAT TAGAT TAGAT TAGAT TAGTT TAGTT TAGCT TAGA TAGAT TAGAT TAGAT TAGAT TAGAT TAGAT TAGTT TAGTT TAGTT TAGCA TAGA TAGAT TAGAT TAGAT TAGAT TAGAT TAGAT TAGTT TAGTT TAGCA TAGAT TAGTT TAGTT TAGAT TAG							-	AGGTC									AGGGG
TACC																	TAAGG
TAGA																	TATGG
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TCA TCAAA TCAAT TCAAC TCAAC TCAAC TCAAC TCAAC TCATT TCATT TCATT TCATT TCATC TCACT TCACC TCACC TCACG TCAGA TCAGT TCACC TCAC TCCTA TCCTAA TCTAA TCTAAC TCTAAC TCACAC TCCAC TCCACAC TCCACAC TCCACACCACACCACCACCACCACCACCACCACCACCACC								TTGTC									TTGGG
TCCC TCCAA TCCAT TCCAC TCCAC TCCAC TCCAC TCCTA TCCTT TCCTC TCCCA TCCCA TCCCA TCCCA TCCGA TCCCA TCCCA TCCCA TCCCA TCCCAC TCCCACCAC TCCCAC TCCCACCAC TCCCAC TCCCACCAC TCCCAC TCCCACCAC TCCCAC TCCCACCAC TCCCAC TCCCACCAC TCCCAC TCCCAC TCCCAC TCCCACCAC TCCCACCAC TCCCAC TCCCAC TCCCAC TCCCAC TCCCAC TCCCAC TCCC																	TCAGG
TCG TCGAA TCGAT TCGAC TCGAC TCGAC TCGTA TCGTA TCGTC TCGTC TCGCA TCGCC TCGCC TCGCA TCGCA TCGCC TC	TCT	TCTAA	TCTAT	TCTAC	TCTAG	TCTTA	TCTTT	TCTTC	TCTTG	TCTCA	тстст	ТСТСС	TCTCG	TCTGA	TCTGT	TCTGC	TCTGG
TGA TGAAA TGAAA TGAAA TGAAA TGATA TGATA TGATA TGACA TGCAC TGCAC TGCAC TGCAC TGCAC TGCAC TGCAC TGCAC TGCCA TGCAC TGCCC TGCAC TGCCC CAACA CAACA TGCCC TGCCC CAACA CAACA TGCCC CACAC CAACA CAACA TGCCC CACCA CAACA CAACA CACACA CAACA CACACA CACACA CACACA CACACA CACACA CACACA CACACA CACACA	TCC	TCCAA	TCCAT	TCCAC	TCCAG	TCCTA	TCCTT	TCCTC	TCCTG	TCCCA	TCCCT	TCCCC	TCCCG	TCCGA	TCCGT	TCCGC	TCCGG
TGT TGTAA TGTAT TGTAC TGTAG TGTTA TGTTT TGTTT TGTTC TGTTG TGTCA TGTCT TGTCC TGTCG TGTGA TGTGT TGTGT TGTCA TGCAT TGCAC TG								TCGTC									TCGGG
TGC TGCAA TGCAT TGCAC TGCAC TGCAC TGCTA TGCTT TGCTC TGCTC TGCCT TGCCT TGCCG TGCGA TGCGT TGCGC TGCGA TGCGC TGCGA TGCGC TGCGC TGCGA TGCGC TG																	TGAGG
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CTG CTGAA CTGAT CTGAC CTGAG CTGTA CTGTT CTGTC CTGTG CTGCA CTGCT CTGCG CTGCA CTGCT CTGCC CCAGC CCAAA CCAAT CCAAC CCAAT CCATT CCATC CCATC CCATG CCACA CCACT CCACC CCACG CCAGA CCACA CCAGA CCAGA CCACA CCAGA CCAGA CCACA CC	CTT	CTTAA	CTTAT	CTTAC	CTTAG	CTTTA	CTTTT	CTTTC	CTTTG		CTTCT	CTTCC	CTTCG	CTTGA	CTTGT	CTTGC	CTTGG
CCA CCTAAA CCAAA CCTAA CCTAA CCTAA CCTAA CCTAA CCTAA CCTAA CCTAA CCTAA CCTAC CCTAA CCTAA CCTAA CCTAC CCTAA CCTAC CCTAA CCCTA CCCTA CCCCA CCCCAA CCCCAA CCCCAA CCCCAA CCCCAA CCCCAA CCCCCAA CCCCCC																	CTCGG
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CGT CGTAA CGTAT CGTAC CGTAG CGTTA CGTTT CGTTC CGTTG CGTCA CGTCT CGTCC CGTCG CGCAC CGCAC CGCAC CGCAC CGCAC CGCTA CGCTT CGCTC CGCTG CGCCA CGCCT CGCCC CGCCG CGCGA CGCGT CGCGC CGGAA CGGAT CGGAC CGGAG CGGAC CGGAG CGGAC CGACC CG																	CGAGG
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GAT GATAA GATAT GATAC GATAG GATTA GATTT GATTC GATTG GATCA GATCT GATCC GATCG GATGA GATGT GATGC GAC GACAA GACAT GACAC GACAG GACTA GACTT GACTC GACTG GACCA GACCT GACCC GACCG GACGA GACGT GACGC GAG GAGAA GAGAT GAGAC GAGAG GAGTA GAGTT GAGTC GAGTG GAGCA GAGCT GAGCC GAGCG GAGGA GAGGT GAGGC GTA GTAAA GTAAT GTAAC GTAAG GTATA GTATT GTATC GTATG GTACA GTACT GTACC GTACG GTACA GTAGA GTAGT GTAGC GTC GTCAA GTCAT GTCAC GTCAG GTCTA GTCTT GTCTC GTCTG GTCCA GTCCC GTCCG GTCGA GTCGT GTCGC GTG GTGAA GTGAT GTGAC GTGAG GTGTA GCATT GCATC GCATC GCACA GCACT GCACC GCACG GCAGA GCAGT GCAGC GCA GCAAA GCAAT GCAAC GCAAG GCATA GCATT GCATC GCATC GCACA GCACT GCACC GCACG GCAGA GCAGT GCAGC GCC GCCAA GCCAT GCCAC GCCAG GCCTA GCCTT GCCTC GCCCA GCCCC GCCCG GCCGA GCCGT GCCGC GCG GCGAA GCAAT GCAAC GCAAG GCATA GCATT GCATC GCATC GCCCA GCCCC GCCCC GCCCG GCCGA GCCGT GCCGC GCG GCGAA GCAAT GCAAC GCAAG GCATA GCATT GCCTC GCCTC GCCCA GCCCC GCCCC GCCCG GCCGA GCCGT GCCGC GCC GCCAA GCCAT GCCAC GCCAG GCCTA GCCTT GCCTC GCCCC GCCCC GCCCG GCCGA GCCGT GCCGC GCG GCGAA GCAAT GCAAC GCAAG GCATA GCATT GCATC GCCTC GCCCA GCCCC GCCCG GCCGA GCCGT GCCGC GCG GCGAA GCAAT GCAAC GCAAG GCATA GCATT GCCTC GCCTC GCCCA GCCCC GCCCG GCCGA GCCGT GCCGC GCC GCCAA GCCAT GCCAC GCCAAG GCCTA GCCTT GCCTC GCCCC GCCCC GCCCG GCCGA GCCGT GCCGC GCG GCGAA GCAAT GCAAC GCAAG GCATA GCATT GCATC GCTCC GCCCA GCCCC GCCCC GCCCG GCCGA GCCGT GCCGC GCG GCGAA GCAAT GCAAC GCAAG GCATA GCATT GCCTC GCCTC GCCCC GCCCC GCCCG GCCGA GCCGT GCCGC GCG GCGAA GCAAT GCAAC GCAAG GCATA GCATT GCCTC GCCTC GCCCC GCCCC GCCCG GCCGA GCCGT GCCGC GCG GCGAA GCAAT GCAAC GCAAC GCAAT GCCTT GCCTC GCCTC GCCCC GCCCC GCCGA GCCGT GCCGC GCG GCGAA GCAAT GCAAC GCAAC GCAAT GCCTT GCCTC GCCCC GCCCC GCCCC GCCGA GCCGT GCCCC GCCC GCCAA GCCAT GCCAC GCCAA GCCTT GCCCC GCCC GCCCC GCC								CGGTC									CGGGG
GAC GACAA GACAT GACAC GACAG GACTA GACTT GACTC GACTG GACCA GACCT GACCC GACCG GACGA GACGT GACGC GAG GAGAA GAGAT GAGAC GAGAG GAGTA GAGTT GAGTC GAGTG GAGCA GAGCT GAGCC GAGCG GAGGA GAGGT GAGGC GTA GTAAA GTAAT GTAAC GTAAG GTATA GTATT GTATC GTATG GTACA GTACT GTACC GTACG GTAGA GTAGT GTAGC GTT GTTAA GTTAT GTAC GTAG GTTTA GTTTT GTTTC GTTTC GTTCA GTTCT GTCC GTTCG GTTCA GTTGA GTTGT GTTGC GTC GTCAA GTCAT GTCAC GTCAG GTCTA GTCTT GTCTC GTCTG GTCCA GTCCC GTCCG GTCGA GTCGT GTCGC GTG GTGAA GTGAT GTGAC GCAAG GCATA GCATT GCATC GCATC GCACC GCACC GCACC GCAGA GCAGA GCAGT GCAGC GCCA GCAAA GCCAT GCCAC GCCAG GCCTA GCCTT GCTTC GCTTC GCTCC GCCCC GCCCC GCCGA GCCGT GCCGC GCC GCCAA GCCAT GCCAC GCCAG GCCTA GCCTT GCCTC GCCCC GCCCC GCCCG GCCGA GCCGT GCCGC GCCG GCGAA GCGAT GCGAC GCCAG GCGTA GCGTT GCGTC GCCCC GCCCC GCCCG GCCGA GCCGT GCCGC GCG GCGAA GCGAT GCGAC GCCAG GCGTA GCGTT GCGTC GCGCC GCCCC GCCCG GCCGA GCCGT GCCCC GCCG GCGAA GCGAT GCGAC GCCAG GCGTA GCGTT GCGTC GCCCC GCCCC GCCCG GCCGA GCCGT GCCGC GCG GCGAA GCGAT GCGAC GCCAG GCGTA GCGTT GCGTC GCGCC GCCCC GCCCG GCCGA GCGGT GCGCC GCG GCGAA GCGAT GCGAC GCGAG GCGTA GCGTT GCGTC GCGCC GCCCC GCCCG GCCGA GCGGT GCGCC GCG GCGAA GCGAT GCGAC GCGAG GCGTA GCGTT GCGCC GCCCC GCCCG GCCGA GCGGT GCGCC GCG GCGAA GCGAT GCGAC GCGAG GCGTA GCGTT GCGCC GCCCC GCCCC GCCCG GCCGA GCGGT GCGCC GCG GCGAA GCGAT GCGAC GCGAG GCGTA GCGTT GCGCC GCCCC GCCCC GCCCG GCCGA GCGGT GCGCC GCG GCGAA GCGAT GCGAC GCGAG GCGTA GCGTT GCGCC GCCCC GCCCC GCCCG GCCGA GCGGT GCGCC GCG GCGAA GCGAT GCGAC GGAAC GGATA GCGTT GCGCC GGCCC GGCCC GGCCG GCGAA GCGCT GCGCC GCC GCCAA GCCAT GCCAC GCCAC GCCAC GCCTT GCCCC GC							-							-			GAAGG
GAG GAGAA GAGAT GAGAC GAGAG GAGTA GAGTT GAGTC GAGTG GAGCA GAGCT GAGCC GAGCG GAGGA GAGGT GAGGC GTA GTAAA GTAAT GTAAC GTAAG GTATA GTATT GTATC GTATG GTACA GTACT GTACC GTACG GTAGA GTAGA GTAGT GTAGC GTT GTTAA GTTAT GTAC GTAG GTTTA GTTTT GTTTC GTTTC GTTCG GTTCA GTTCT GTCC GTCG GTCG																	GATGG
GTA GTAAA GTAAT GTAAC GTAAG GTATA GTATT GTATC GTATG GTACA GTACT GTACC GTACG GTAGA GTAGT GTAGC GTT GTTAA GTTAT GTTAC GTTAG GTTA GTTTT GTTTC GTTTG GTTCA GTTCT GTCC GTCG GTCG																	GACGG
GTT GTTAA GTTAT GTTAC GTTAG GTTTA GTTTT GTTTC GTTTG GTTCA GTTCT GTTCC GTTCG GTTCA GTTCT GTTCC GTC GTCAA GTCAT GTCAC GTCAG GTCTA GTCTT GTCTC GTCTG GTCCA GTCCT GTCCC GTCCG GTCGA GTCGT GTCGC GTG GTGAA GTGAT GTGAC GTGAG GTGTA GTGTT GTGTC GCA GCAAA GCAAT GCAAC GCAAG GCATA GCATT GCATC GCATG GCACA GCACT GCACC GCACG GCAGA GCAGT GCAGC GCT GCTAA GCTAT GCTAC GCTAG GCTTA GCTTT GCTTC GCTTC GCTCA GCTCT GCCCC GCCCG GCCGA GCCGTA GCCGT GCCC GCCAA GCCAT GCCAC GCCAG GCCTA GCCTT GCCTC GCCTC GCCCC GCCCG GCCGA GCCGT GCCGC GCCG GCGAA GCCAT GCCAC GCCAG GCCTA GCCTT GCCTC GCCCC GCCCC GCCCG GCCGA GCCGT GCCGC GCG GCGAA GCGAT GCGAC GCGAG GCGTA GCGTT GCGTC GCGCA GCCCT GCCCC GCCCG GCCGA GCCGT GCGCC GCG GCGAA GCGAT GCGAC GCGAG GCGTA GCGTT GCGTC GCGCC GCGCC GCGCG GCGGA GCGGT GCGCC GGGA GGAAA GGAAT GGAAC GGAAG GGATA GGATT GGATC GGATC GGACA GGACT GGACC GGACG GGAGA GCGGT GCGCC GGC GCCAA GCCAT GCCAC GCCAC GCCAC GCCCC GCCCC GCCCC GCCCC GCCCC GCGC GCCAA GCCAT GCCAC GCCAC GCCAC GCCCC GCCCC GCCCC GCCCC GCCCC GCCC GCCAA GCCAT GCCAC GCCAC GCCAC GCCCC GC																	GAGGG
GTC GTCAA GTCAT GTCAC GTCAG GTCTA GTCTT GTCTC GTCTG GTCCA GTCCT GTCCC GTCCG GTCGA GTCGT GTCGC GTG GTGAA GTGAT GTGAC GTGAG GTGTA GTGTT GTGTC GTGTG GTGCA GTGCT GTGCC GTGCG GTCGA GTGGT GTGGC GCA GCAAA GCAAT GCAAC GCAAG GCATA GCATT GCATC GCATG GCACA GCACT GCACC GCACG GCAGA GCAGT GCAGC GCT GCTAA GCTAT GCTAC GCTAG GCTTA GCTTT GCTTC GCTTC GCTCA GCTCT GCCCC GCCCG GCCGA GCCGTA GCCGT GCC GCCAA GCCAT GCCAC GCCAG GCCTA GCCTT GCCTC GCCTC GCCCA GCCCT GCCCC GCCCG GCCGA GCCGT GCCGC GCG GCGAA GCGAT GCGAC GCGAG GCGTA GCGTT GCGTC GCGCA GCCCT GCCCC GCCCG GCCGA GCCGT GCGCC GCG GCGAA GCGAT GCGAC GCGAG GCGTA GCGTT GCGTC GCGCA GCCCT GCCCC GCCCG GCCGA GCGGT GCGGC GGA GGAAA GGAAT GGAAC GGAAG GGATA GGATT GGATC GGATC GGACA GGACT GGACC GGACG GGAGA GCGGT GCGCC GGT GGTAA GGTAT GGTAC GGTAC GGTTA GGTTC GGTTC GGTCC GGCCC GGCCG GGCGA GCGGT GGGCC GGC GGCAA GCCAT GGCAC GGCAG GGCTA GGCTT GGCTC GGCCC GGCCC GGCCG GGCGA GCGCT GGCCC GGC GGCAA GGCAT GGCAC GGCAG GGCTA GGCTT GGCCC GGCCC GGCCG GGAGA GGGCT GGACC GGT GGTAA GGTAT GGTAC GGTAC GGTTA GGTTC GGTTC GGTCC GGCCC GGCCG GGCGA GGCGT GGCCC GGC GGCAA GGCAT GGCAC GGCAA GGCCT GGCCC GGCCG GGCGA GGCGT GGCCC GGC GGCAA GGCAT GGCAC GGCAA GGCCT GGCCC GGCCG GGCGA GGCGT GGCCC GGC GGCAA GGCAT GGCAC GGCAA GGCCT GGCCC GGCCG GGCGA GGCGT GGCCC GGC GGCAA GGCAT GGCAC GGCAA GGCCT GGCCC GGCCC GGCCG GGCGA GGCGT GGCCC																	GTAGG GTTGG
GTG GTGAA GTGAT GTGAC GTGAG GTGTA GTGTT GTGTC GTGTG GTGCA GTGCT GTGCC GTGCG GTGGA GTGGT GTGGC GCA GCAAA GCAAT GCAAC GCAAG GCATA GCATT GCATC GCATG GCACA GCACT GCACC GCACG GCAGA GCAGT GCAGC GCT GCTAA GCTAT GCTAC GCTAG GCTTA GCTTT GCTTC GCTTC GCTCA GCTCT GCCCC GCCCG GCCGA GCCGT GCCCC GCC GCCAA GCCAT GCCAC GCCAG GCCTA GCCTT GCCTC GCCTC GCCCA GCCCT GCCCC GCCCG GCCGA GCCGT GCCCC GCG GCGAA GCGAT GCGAC GCGAG GCGTA GCGTT GCGTC GCGTC GCCCA GCCCT GCCCC GCCCG GCCGA GCGGT GCGCC GCG GCGAA GCGAT GCGAC GCGAG GCGTA GCGTT GCGTC GCGTC GCGCA GCCCT GCCCC GCCCG GCGGA GCGGT GCGCC GGA GGAAA GGAAT GGAAC GGAAG GGATA GGATT GGATC GGATC GGACA GGACT GGACC GGACG GGAGA GGAGT GGAGC GGT GGTAA GGTAT GGTAC GGTAC GGTTA GGTTC GGTTC GGTCC GGCCA GCCCT GCCCC GGCCG GCGGA GCGGT GGGCC GGC GGCAA GCCAT GGCAC GGCAC GGCAC GGCCC GGCCG GGCGA GCGCT GGCCC GGC GGCAA GGCAT GGCAC GGCAC GGCCA GGCCT GGCCC GGCCC GGCCG GGCGA GGCGT GGCCC GGC GGCAA GGCAT GGCAC GGCAC GGCCA GGCCT GGCCC GGCCC GGCCG GGCGA GGCGT GGCCC GGC GGCAA GGCAT GGCAC GGCAC GGCCA GGCCT GGCCC GCCC GGCCC GCCC GCCC GCCC GCCC GCCC GCCC GCCC GC																	GTCGG
GCA GCAAA GCAAT GCAAC GCAAG GCATA GCATT GCATC GCATG GCACA GCACT GCACC GCACG GCAGA GCAGT GCAGC GCT GCT GCT GCT GCT GCT GCT GCT GCT G																	GTGGG
GCT GCTAA GCTAT GCTAC GCTAG GCTTA GCTTT GCTTC GCTTG GCTCA GCTCT GCTCC GCTCG GCTGA GCTGT GCTGC GCC GCCAA GCCAT GCCAC GCCAG GCCAA GCCTT GCCTC GCCTG GCCCA GCCCA GCCCA GCCCG GCCGA GCCGT GCCGC GCG GCGAA GCGAT GCGAC GCGAA GCGAT GCGTA GCGTT GCGTC GCGTG GCGCA GCCCT GCGCC GCGCA GCGGA GCGGT GCGGC GGA GGAAA GGAAT GGAAC GGAAG GGATA GGATT GGATC GGATG GGACA GGACT GGACC GGACG GGAGA GGAGT GGAGC GGT GGTAA GGTAT GGTAC GGTAG GGTTA GGTTT GGTTC GGTTC GGTCA GGCCT GCCCC GGCCG GGCGA GGTGA GGTGT GGCC GGCAA GCCAT GGCAC GGCAA GGCAT GGCAC GGCCA GGCCA GGCCC GGCCG GGCGA GGCGT GGCCC GGC GGCAA GGCAA GGCAT GGCAC GGCAA GGCCT GGCCC GGCCC GGCCG GGCGA GGCGT GGCCC GGC GGCAA GGCAT GGCAC GGCAA GGCAT GGCCC GGCCA GGCCC GGCCG GGCGA GGCGT GGCCC																	GCAGG
GCC GCCAA GCCAT GCCAC GCCAG GCCTA GCCTT GCCTC GCCTG GCCCA GCCCT GCCCC GCCCG GCCGA GCCGT GCCGC GCG GCGAA GCGAT GCGAC GCGAA GCGAT GCGAC GCGAA GCGAT GCGCC GGA GGAAA GGAAT GGAAC GGAAG GGATA GGATT GGATC GGATG GGACA GGACT GGACC GGACG GGAGA GGAGT GGAGC GGT GGTAA GGTAT GGTAC GGTAG GGTTA GGTTT GGTTC GGTTC GGTCA GGCCT GGCCC GGCCG GGCGA GGTGA GGTGT GGCC GGCAA GGCAT GGCAC GGCAC GGCAC GGCCA GGCCC GGCCC GGCCC GGCC GGCAA GGCAT GGCAC GGCAC GGCCC GGCCC GGCCC GGCCC GGCCC GGCCA GGCCA GGCCA GGCCA GGCCC GGCCC GGCCC GGCCC GGCCC GGCCA GGCCA GGCCA GGCCA GGCCC GGCCC GGCCC GGCCC															GCTGT		GCTGG
GGA GGAAA GGAAT GGAAC GGAAG GGATA GGATT GGATC GGATG GGACA GGACT GGACC GGACG GGAGA GGAGT GGAGC GGT GGTAA GGTAT GGTAC GGTAG GGTTA GGTTT GGTTC GGTTG GGTCA GGTCT GGTCC GGTCG GGTCA GGTCA GGTCA GGC GGCAA GGCAT GGCAC GGCAG GGCTA GGCTT GGCTC GGCTG GGCCA GGCCT GGCCC GGCCG GGCGA GGCGT GGCCC			GCCAT				GCCTT							GCCGA			GCCGG
GGT GGTAA GGTAT GGTAC GGTAG GGTTA GGTTT GGTTC GGTTG GGTCA GGTCT GGTCC GGTCG GGTGA GGTGT GGTGC GGC GGCAA GGCAT GGCAC GGCAG GGCTA GGCTT GGCTC GGCTG GGCCA GGCCT GGCCC GGCCG GGCGA GGCGT GGCGC																	GCGGG
GGC GGCAA GGCAT GGCAC GGCAG GGCTA GGCTT GGCTC GGCTG GGCCA GGCCT GGCCC GGCCG GGCGA GGCGT GGCGC							-							-			GGAGG
																	GGTGG
GOO GOODA																	GGCGG
	000	GGGAA	UUUAT	T GGGAC	GUGAG	GOGTA	- 30011	_ 0001C	1 00010	T GGGCA	I GOOCT	T 000CC		GUUGA			GGGGG

Before filtering: read2: overrepresented sequences

Sampling rate: 1 / 20

AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	1670 (0.007056%)	
AAAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	28720 (0.048541%)	
AAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGG	35 (0.000059%)	
AAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGT	425 (0.000718%)	
AAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGG	20 (0.000034%)	
ACAAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAAT	28121 (0.047529%)	
ACACACACACACACACACACACACACACACACACACA	3426 (0.005790%)	
AC	98731 (0.166870%)	
ACACACACACACACACACACACACACACACACACACAC	766 (0.003237%)	
ACACACACACACACACACACACACACACACACACACACAG	2521 (0.004261%)	
ACAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	43653 (0.073780%)	
AG	15062 (0.025457%)	
AGAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	50666 (0.085633%)	
AGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTA	457 (0.000772%)	
AGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTT	127 (0.000215%)	
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGC	109 (0.000184%)	
AGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTAGA	191 (0.000323%)	
AGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTAGG	37 (0.000063%)	
AGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTAGT	85 (0.000144%)	
AGGGAAAGAGTGTTAATGGCAAGGTGTAGATCTCGGTGGT	249 (0.000421%)	
AGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	29171 (0.049303%)	
ATAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	41490 (0.070124%)	
ATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAA	2149 (0.003632%)	
ATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	32613 (0.055121%)	
CAAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	40193 (0.067932%)	
CACACACACACACACACACACACACACACACAAA	2455 (0.004149%)	
CACACACACACACACACACACACACACACACACACA	64140 (0.108406%)	
CACACACACACACACACACACACACACACACACACACA	1058 (0.004470%)	
CACACACACACACACACACACACACACACACACAGA	1557 (0.002632%)	
CAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGG	8 (0.000014%)	
CCAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	51751 (0.087467%)	
cccccccccccc	25483 (0.021535%)	
CGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGG	769 (0.001300%)	

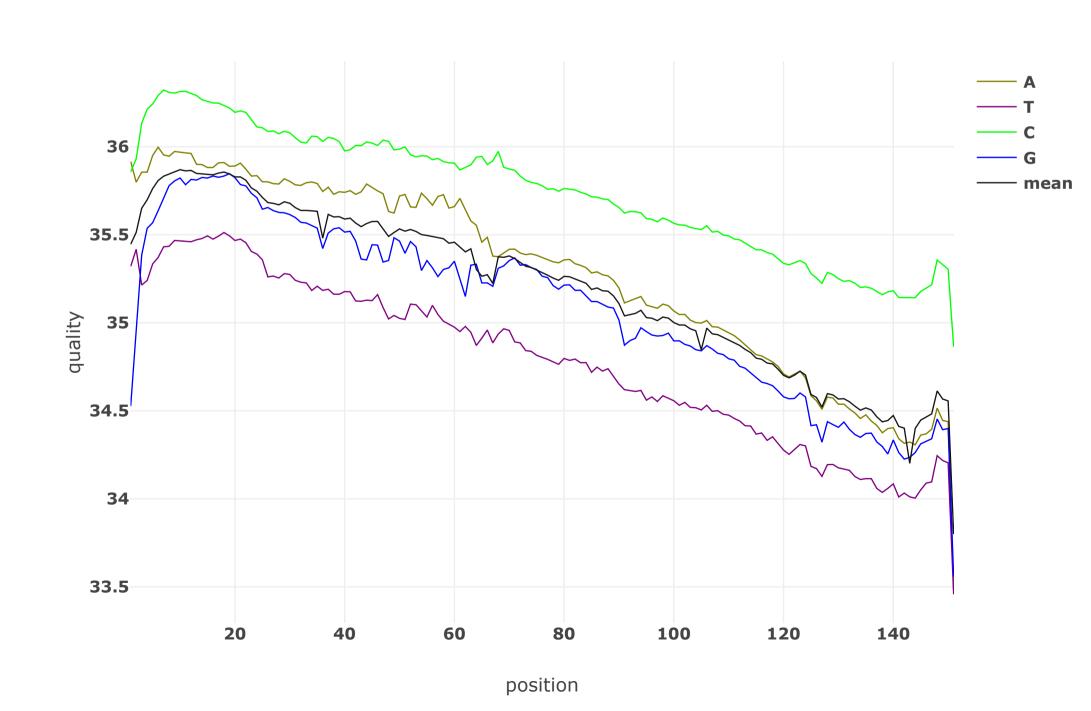
CGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTAGATC	84 (0.000142%)	
CGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTAGTTC	30 (0.000051%)	
CGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTAGTTG	11 (0.000019%)	
CGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTAGATCTCG	216 (0.000365%)	
CGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTAGTTCTCG	80 (0.000135%)	
CTAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	48763 (0.082416%)	
стстстстстстстстстстстстстстстст	9687 (0.016372%)	
GAAAGAGTGTTAATGGCAAGGTGTAGATCTCGGTGGTCGC	38 (0.000064%)	
GAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTG	1112 (0.001879%)	
GAAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	28432 (0.048054%)	
GA	13860 (0.023425%)	
GAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGG	29137 (0.049246%)	
GAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTAG	1317 (0.002226%)	
GAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTTG	328 (0.000554%)	
GATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCA	848 (0.001433%)	
GCACACACACACACACACACACACACACACACACACACA	43014 (0.072700%)	
GCAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	37725 (0.063761%)	
GCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTAGAT	177 (0.000299%)	
GCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTAGGT	97 (0.000164%)	
GCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTAGTT	162 (0.000274%)	
GGAAAGAGTGTTAATGGCAAGGTGTAGATCTCGGTGGTCG	131 (0.000221%)	
GGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGT	721 (0.001219%)	
GGAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	51754 (0.087472%)	
GGGAAAGAGTGTTAATGGCAAGGTGTAGATCTCGGTGGTC	70 (0.000118%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	31995 (0.135190%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	24500 (0.154247%)	
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GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	2354 (0.003979%)	
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GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	2009 (0.003395%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	2449 (0.004139%)	

GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1713 (0.002895%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	2223 (0.003757%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1600 (0.002704%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	3960 (0.016732%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	209 (0.000883%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	351 (0.001483%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	352 (0.001487%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	532 (0.002248%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	519 (0.002193%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	623 (0.002632%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	625 (0.002641%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	829 (0.003503%)	
GGGGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	830 (0.003507%)	
GGGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1530 (0.006465%)	
GGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	2138 (0.009034%)	
GTAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	39620 (0.066963%)	
GTAGGGAAAGAGTGTTAATGGCAAGGTGTAGATCTCGGTG	293 (0.000495%)	
GTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTAGATCT	186 (0.000314%)	
GTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTAGTTCT	60 (0.000101%)	
GTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTAGTTGT	57 (0.000096%)	
GTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	84232 (0.142364%)	
GTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	4485 (0.018951%)	
GTGTAGGGAAAGAGTGTTAATGGCAAGGTGTAGATCTCGG	163 (0.000275%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	1521 (0.002571%)	
GT	39330 (0.066473%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	387 (0.001635%)	
TAAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	42728 (0.072216%)	
TAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGG	14 (0.000024%)	
TAGGGAAAGAGTGTTAATGGCAAGGTGTAGATCTCGGTGG	89 (0.000150%)	
TCAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	46839 (0.079165%)	
TCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAG	639 (0.001080%)	
TCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTAGATCTC	140 (0.000237%)	
TCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTAGTTCTC	68 (0.000115%)	

TCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTC	12449 (0.021041%)	
TGAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	86880 (0.146840%)	
TGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	11442 (0.019339%)	
TGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	4618 (0.019513%)	
TGTAGGGAAAGAGTGTTAATGGCAAGGTGTAGATCTCGGT	108 (0.000183%)	
TGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	41384 (0.069945%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGAG	2647 (0.004474%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	70321 (0.118853%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	741 (0.003131%)	
TTAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	60416 (0.102112%)	
TTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	28677 (0.048468%)	

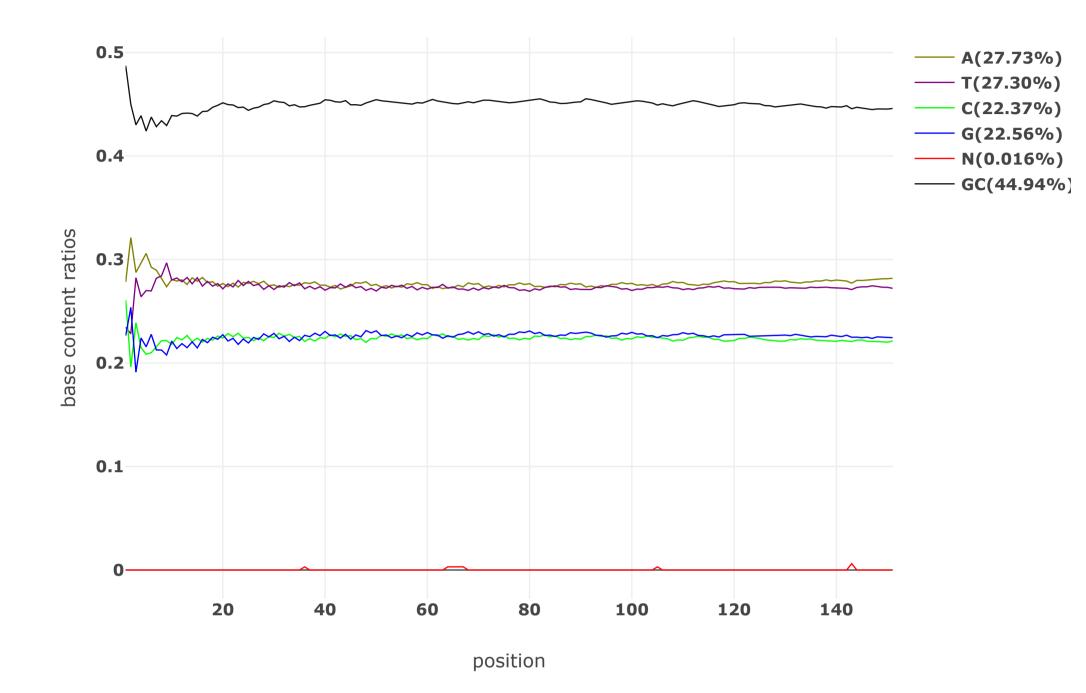
After filtering

After filtering: read1: quality



After filtering: read1: base contents

Value of each position will be shown on mouse over.



After filtering: read1: KMER counting

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

AAA AAAAA AAAAT AAAAC AAAAG AAAAG AAAAT AAATT AAATT AATTC AATTC AATCA AAACT AAACG AAAAG AAAAT AAATT AATTC AATCA AACA AACAA AACAT AACAC AACAG AACAG AACAA AACAT AACT AAC		AA	AT	AC	AG	TA	TT	TC	TG	CA	CT	CC	CG	GA	GT	GC	GG
ΑΑC ΑΑCAC ΑΑCAC ΑΑCAC ΑΑCG ΑΑCG ΑΑCC ΑΑCC ΑΑCG ΛΑCG ΛΑCA ΛΑCAC ΛΑCAC ΛΑCAC ΛΑCAC	AAA			AAAAC								AAACC					
ΑΛΕ ΛΑΘΑΑ ΑΛΕΑΤ ΛΑΘΑΕ ΛΑΘΑΕ ΛΑΘΕ	AAT	AATAA	AATAT	AATAC	AATAG	AATTA	AATTT	AATTC	AATTG	AATCA	AATCT	AATCC	AATCG	AATGA	AATGT	AATGC	AATGG
ATA ATAMA ATAMA ATAMA ATAMA ATAMA ATAMA ATAMA ATATT ATATC ATATC ATACG ATACG ATACG ATAGA ATAGA ATATT ATAMA ATTAT ATTAC ATTAC ATTACA ATATA ATTATA ATTAC ATTACA ATATA ATTACA ATATACA ATAT	AAC	AACAA	AACAT	AACAC	AACAG	AACTA	AACTT	AACTC	AACTG	AACCA	AACCT	AACCC	AACCG	AACGA	AACGT	AACGC	AACGG
ATT ATTAM ATTAM ATTAM ATTAM ATTAM ATTAM ATTAM ATTTC ATTTG ATTCA ATTCC ATTCC ATTCC ATTCG ATTCG ATTCG ATTCG ATTCA ATTCT ATCAMANTAMAN ATTAMA ATTAMA ATTAMA ATTAMA ATTAMA ATTAMA ATTAMA ATTAMA ATCAMA ACAMA	AAG	AAGAA	AAGAT	AAGAC	AAGAG	AAGTA	AAGTT		AAGTG	AAGCA	AAGCT	AAGCC	AAGCG	AAGGA	AAGGT	AAGGC	AAGGG
ATC	ATA	ATAAA	ATAAT	ATAAC	ATAAG	ATATA	ATATT	ATATC	ATATG	ATACA	ATACT	ATACC	ATACG	ATAGA	ATAGT	ATAGC	ATAGG
ATGA	ATT	ATTAA	ATTAT	ATTAC	ATTAG	ATTTA	ATTTT	ATTTC	ATTTG	ATTCA	ATTCT	ATTCC	ATTCG	ATTGA	ATTGT	ATTGC	ATTGG
ACA ACAAA ACAAT ACAAC ACAAG ACATA ACATT ACATC ACATG ACACA ACACT ACACC ACACG ACACG ACAGA ACAGT ACTAA ACTAT ACTAC ACTAG ACTAA ACTAT ACTAC ACTAG ACTA ACTA	ATC	ATCAA	ATCAT	ATCAC	ATCAG	ATCTA	ATCTT	ATCTC	ATCTG	ATCCA	ATCCT	ATCCC	ATCCG	ATCGA	ATCGT	ATCGC	ATCGG
ACT ACTAA ACTAT ACTAC ACTAG ACTAG ACTA ACTT ACTT	ATG	ATGAA	ATGAT	ATGAC	ATGAG	ATGTA	ATGTT	ATGTC	ATGTG	ATGCA	ATGCT	ATGCC	ATGCG	ATGGA	ATGGT		ATGGG
ACC ACCAA ACCAT ACCAC ACCAG ACCAG ACCTA ACCTT ACCTC ACCTG ACCCA ACCCC ACCGG ACCGA ACCGA ACGAT ACCAT AC	ACA	ACAAA	ACAAT	ACAAC	ACAAG	ACATA	ACATT	ACATC	ACATG	ACACA	ACACT	ACACC	ACACG	ACAGA	ACAGT	ACAGC	ACAGG
ACG ACGAA ACGAT ACGAC ACGAG ACGTA ACGTT ACGTC ACGTG ACGCA ACGCT ACGCC ACGCG ACGGA ACGGT ACGGC AGA ACGAA AGAAT AGAAT AGAAT AGAAT AGAAT AGATT AGATC AGATC AGACA AGACT AGACC AGACG AGACA AGACT AGACC AGACC AGACG AGACA AGACT AGACC AGACC AGACG AGACA AGACT AGACC AGACC AGACA AGACT AGACC AGACC AGACA AGACT AGACC AGACC AGACC AGACC AGACC AGACC AGACG AGACA AGACT AGACC AGAC	ACT	ACTAA	ACTAT	ACTAC	ACTAG	ACTTA	ACTTT	ACTTC	ACTTG	ACTCA	ACTCT	ACTCC	ACTCG	ACTGA	ACTGT	ACTGC	ACTGG
AGA AGAAA AGAAT AGAAC AGAAG AGATA AGATT AGATC AGATG AGATG AGACA AGACT AGACC AGACG AGAGA AGAGT AGAGC AGAGG AGT AGTAA AGTAT AGTAC AGTAG AGTTA AGTTC AGTTC AGTTC AGTCA AGCTC AGCCA AGCAG AGGAG AGGAT AGGAC AGGAG AGGAT AGACT TAAAA TAAAAT TAAAAC TAAAAG TAAAAT TAAAC TAAAAG TAAAAT TAAAC TAAAG TAAAAT TAAAC TAAAG TAAAAT TAAAC TAAAG TAACA TAACT TAACC TACAG TAAGA TAACA TAACT TAACC TACAG TACGA TA	ACC	ACCAA	ACCAT	ACCAC		ACCTA	ACCTT	ACCTC	ACCTG		ACCCT	ACCCC	ACCCG	ACCGA	ACCGT		
AGT AGTAA AGTAT AGTAC AGTAG AGTTA AGTTT AGTTC AGTTG AGTCA AGTCT AGTCC AGTCG AGCAA AGCAT AGCAC AGCAC AGCAC AGCAC AGCCG AGCGA AGCGA AGCGT AGCGC AGGGA AGGAC AGGACACCAC AGGAC AGG	ACG			ACGAC	ACGAG				ACGTG				ACGCG	ACGGA			
AGC AGCAA AGCAT AGCAC AGCAG AGCTA AGCTT AGCTC AGCTG AGCCA AGCCC AGCGG AGCGA AGCGT AGCGC AGG AGGA AGCGT AGCGC AGG AGGA AGCGT AGGCC AGGG AGGAA AGCGT AGGCC AGGG AGGAA AGGAT AGGAC AGGACAC AGGAC AGGACAC AGGAC AGGACACAC AGGAC AGGAC AGGAC AGGAC AGGAC AGGAC AGGAC AGGAC AGGAC AGGACACACAC	AGA	AGAAA		AGAAC	AGAAG			AGATC	AGATG	AGACA		AGACC	AGACG	AGAGA			
AGG AGGAA AGGAT AGGAC AGGAG AGGTA AGGTT AGGTC AGGTG AGGCA AGGCT AGGCG AGGCG AGGGA AGGGT AGGC AGGGG TAAA TAAA	AGT	AGTAA	AGTAT	AGTAC	AGTAG	AGTTA	AGTTT	AGTTC	AGTTG	AGTCA	AGTCT	AGTCC	AGTCG	AGTGA	AGTGT	AGTGC	AGTGG
TAA TAAAA TAAAT TAAAC TAAAG TAATA TAATT TAATC TAATG TAACA TAACT TAACC TAACG TAACA TAACT TAACC TAACG TAACG TAAGC TAAGC TAAGC TAACG TATTA TATAC TATAC TATAA TATAT TATAC TATAC TATAC TATTT TATTC TATTG TATCA TATCT TACCC TACCG TACCA TACCT TACCC TACCG TACCA TACCT TACCC TACCG TACCA TACCT TACCC TACCG TACCA TACCT TACCC TACCA TACCT TACCC TACCA TACCT TACCC TACCA TACCT TACCC TACCA TACCA TACCT TACCC TACCA TACCA TACCT TACCC TACCA TA	AGC	AGCAA	AGCAT	AGCAC	AGCAG	AGCTA	AGCTT	AGCTC	AGCTG	AGCCA	AGCCT	AGCCC	AGCCG	AGCGA	AGCGT	AGCGC	AGCGG
TAT TATAA TATAT TATAC TATAG TATTA TATTC 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 TAGGG TAG TAGAA TAGAT TAGAC TAGAG TAGTA TAGTT TAGTC TAGTG TAGCA TAGCT TAGCC TAGCG TAGGA TAGGT TAGGC TAGGG TTA TATAA TTAAT TAGAC TAGAG TAGTA TAGTT TAGTC TAGTG TAGCA TAGCT TAGCC TAGCG TAGGA TAGGT TAGGC TAGGG TTA TATAA TATAT TAGAC TAGAG TAGTA TAGTT TAGTC TAGTG TAGCA TAGCT TAGCC TAGCG TAGGA TAGGT TAGGC TAGGG TTA TATAA TATAT TAGAC TAGAG TAGTA TAGTT TAGTC TAGTG TAGAA TAGCT TAGCC TAGCG TAGGA TAGGT TAGGC TAGGG TTT TATAA TATAT TAGAC TAGAG TAGTA TAGTT TAGTC TAGTG TAGAA TAGCT TAGCG TAGGA TAGGT TAGGC TAGGG TTC TACAA TAGAT TAGAC TAGAG TAGTA TAGTT TAGTC TAGTG TAGAA TAGCT TAGCC TAGCG TAGGA TAGGT TAGGC TAGGG TTG TAGAA TAGAT TAGAC TAGAG TAGTA TAGTT TAGTC TAGTG TAGAA TAGCT TAGCC TAGGG TAGGA TAGGT TAGGC TAGGG TCT TAGAA TAGAT TAGAC TAGAG TAGTA TAGTT TAGTC TAGTG TAGAA TAGCT TAGCC TAGGG TAGGA TAGGT TAGGC TAGGG TCT TAGAA TAGAT TAGAC TAGAG TAGTA TAGTT TAGTC TAGTG TAGAA TAGCT TAGCC TAGGG TAGGA TAGGT TAGGC TAGGG TCC TAGAA TAGAT TAGAC TAGAG TAGTA TAGTT TAGTC TAGTG TAGAC TAGAC TAGAC TAGAG TAGGT TAGGC TAGGG TCC TAGAA TAGAT TAGAC TAGAG TAGTA TAGTT TAGTC TAGTC TAGAC TA	AGG	AGGAA	AGGAT	AGGAC	AGGAG	AGGTA	AGGTT	AGGTC	AGGTG	AGGCA	AGGCT	AGGCC	AGGCG	AGGGA	AGGGT	AGGGC	AGGGG
TAC TACAA TACAT TACAC TACAG TACTA TACTT TACTC TACTG TACCA TACCT TACCC TACCG TACGA TACGT TACGC TAGGG TAGA TAGAT TAGAC TAGAG TAGTA TAGTT TAGTC TAGTG TAGCA TAGCT TAGCC TAGCG TAGGA TAGGT TAGGC TAGGG TTA TAGAA TAGAT TAGAC TAGAG TAGTA TAGTT TAGTC TAGTG TAGCA TAGCT TAGCC TAGCG TAGGA TAGGT TAGGC TAGGG TTA TAGAA TAGAT TAGAC TAGAG TAGAT TAGTT TAGTC TAGTG TAGCA TAGCT TAGCC TAGCG TAGGA TAGGT TAGGC TAGGG TTT TAGAA TAGAT TAGAC TAGAG TAGAT TAGAT TAGAT TAGAT TAGAT TAGAC TAGAG TAGAT TAGAC TAGAG TAGAG TAGGT TTC TAGAA TAGAT TAGAC TAGAG TAGAT TAGAT TAGAT TAGAT TAGAC TAGAG TAGAT TAGAC TAGAG TAGAT TAGAC TAGAG TAGAT TAGAC TAGAG TAGAT TAGAC TAGAG TAGAT TAGAC TAGAG TAGAT TAGAC TAGAG TAGAT TAGAT TAGAT TAGAC TAGAG TAGAT TAGAT TAGAC TAGAG TAGAT TAGAT TAGAC TAGAG TAGAT TAGAT TAGAC TAGAG TAGAT TAGAT TAGAC TAGAT TAGAT TAGAC TAGAT TAGAC TAGAT TAGAT TAGAC TAGAT TAGAT TAGAC TAGAT TAGAT TAGAT TAGAC TAGAT TAGAT TAGAT TAGAC TAGAT TAGAT TAGAT TAGAC TAGAT TAGAT TAGAT TAGAT TAGAC TAGAT TAGAT TAGAT TAGAT TAGAC TAGAT TAGAT TAGAT TAGAC TAGAT	TAA	TAAAA	TAAAT	TAAAC	TAAAG	TAATA	TAATT	TAATC	TAATG	TAACA	TAACT	TAACC	TAACG	TAAGA	TAAGT	TAAGC	TAAGG
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 TTAGG TTAGA TTAGT TTAGC TTAGG TTT TTTAA TTTAT TTTAC TTTAG TTTAT TTTTC TTTTC TTTTC TTTCC TTCCC TTCCG TTCGA TTCGA TTCGT TTCGC TTCGG 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 TCC TCCAA TCCAT TCCAC TCCAG TCCTA TCCTT TCCTC TCCTG TCCCA TCCCC TCCCG TCCGA TCCGT TCCGC TCCGG TCG TCGAA TCCAT TCCAC TCCAG TCCTA TCCTT TCCTC TCCTG TCCCA TCCCC TCCCG TCCGA TCCGT TCCGC TCCGG TCG TCGAA TCCAT TCCAC TCCAG TCCTA TCCTT TCCTC TCCTG TCCCA TCCCC TCCCG TCCGA TCCGT TCCGC TCCGG TCG TCGAA TCCAT TCCAC TCCAG TCCTA TCCTT TCCTC TCCTG TCCCA TCCCC TCCCC TCCCG TCCGA TCCGT TCCGC TCCGG TCG TCGAA TCCAT TCCAC TCCAG TCATA TCGTT TCGTC TCGTG TCGCA TCCCT TCCCC TCCCG TCCGG TCCGG TCGGC TCGGG TCG TCGAA TCCAT TCCAC TCCAG TCCTA TCCTT TCCTC TCCTG TCCCA TCCCC TCCCC TCCCG TCCGG TCCGG TCGGC TCGGG TCG TCGAA TCGAT TCGAC TCGAG TCGTA TCGTT TCGTC TCGTG TCGCA TCGCT TCGCC TCCGC TCCGG TCGGA TCGGT TCGGC TCGGG TGAA TGAAT TGAAC TGAAG TGATA TGATT TGATC TGATC TGTC TG	TAT	TATAA	TATAT	TATAC	TATAG	TATTA	TATTT	TATTC	TATTG	TATCA	TATCT	TATCC	TATCG	TATGA	TATGT	TATGC	TATGG
TTA TTAAA TTAAT TTAAC TTAAG TTATA TTATC TTATC TTATG TTACA TTACT TTACC TTACG TTAGA TT	TAC	TACAA	TACAT	TACAC	TACAG	TACTA	TACTT	TACTC	TACTG	TACCA	TACCT	TACCC	TACCG	TACGA	TACGT	TACGC	TACGG
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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 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 TGCA TGCCT TGCCC TGCCG TGCGA TGCGT TGGCC TGGGG TGC TGCAA TGCAT TGCAC TGCAG TGCTA TGCTT TGCTC TGCTG TGCCA TGCCT TGCCC TGCCG TGCGA TGCGT TGGCC TGGGG TGC TGCAA TGCAT TGCAC TGCAG TGCTA TGCTT TGCTC TGCTG TGCCA TGCCT TGCCC TGCCG TGCGA TGCGT TGCGC TGCGG 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 TGCTG TGCCA TGCCT TGCCC TGCCG TGCGA TGCGT TGCGC TGCGG TGG TGGAA TGGAT TGGAC TGGAG TGGTA TGGTT TGGTC TGGTG TGCCA TGCCT TGCCC TGCCG TGCGA TGCGT TGCGC TGCGG TGG TGGAA TGGAT TGGAC TGGAG TGGTA TGGTT TGGTC TGGTG TGCCA TGCCC TGCCG TGCGG TGGGA TGGGT TGGGC TGGGG TGG TGGAA TGGAT TGGAC TGGAG TGGTA TGGTT TGGTC TGGTC TGGCC TGGCC TGCCG TGCGG TGGGA TGGGT TGGGC TGGGG	TTT	TTTAA	TTTAT	TTTAC	TTTAG	TTTTA	TTTTT	TTTTC	TTTTG	TTTCA	TTTCT	TTTCC	TTTCG	TTTGA	TTTGT	TTTGC	TTTGG
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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	TCT	TCTAA	TCTAT	TCTAC	TCTAG	TCTTA	TCTTT	TCTTC	TCTTG	TCTCA	TCTCT	TCTCC	TCTCG	TCTGA	TCTGT	TCTGC	TCTGG
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	TGC	TGCAA	TGCAT	TGCAC	TGCAG	TGCTA	TGCTT	TGCTC	TGCTG	TGCCA	TGCCT	TGCCC	TGCCG	TGCGA	TGCGT	TGCGC	TGCGG
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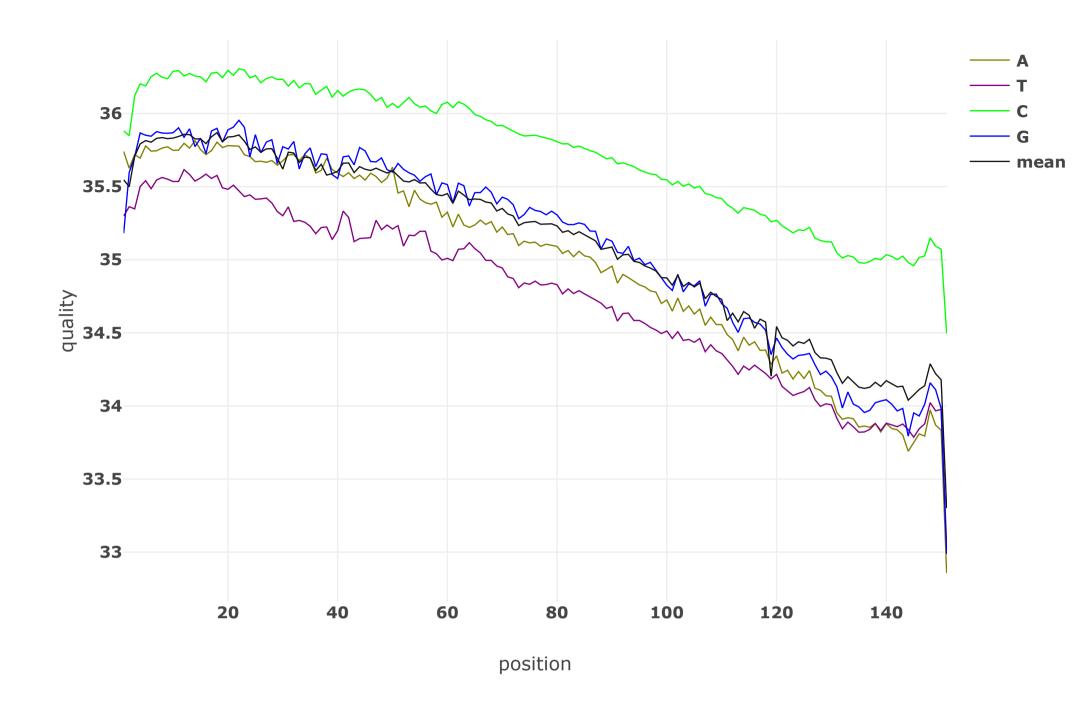
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CAG	CAGAA	CAGAT	CAGAC	CAGAG	CAGTA	CAGTT	CAGTC	CAGTG	CAGCA	CAGCT	CAGCC	CAGCG	CAGGA	CAGGT	CAGGC	CAGGG
CTA	CTAAA	CTAAT	CTAAC	CTAAG	CTATA	CTATT	CTATC	CTATG	CTACA	CTACT	CTACC	CTACG	CTAGA	CTAGT	CTAGC	CTAGG
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CTC	CTCAA	CTCAT	CTCAC	CTCAG	CTCTA	СТСТТ	CTCTC	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
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CCC	CCCAA	CCCAT	CCCAC	CCCAG	CCCTA	CCCTT	CCCTC	CCCTG	CCCCA	CCCCT	ccccc	CCCCG	CCCGA	CCCGT	CCCGC	CCCGG
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GTC	GTCAA	GTCAT	GTCAC	GTCAG	GTCTA	GTCTT	GTCTC	GTCTG	GTCCA	GTCCT	GTCCC	GTCCG	GTCGA	GTCGT	GTCGC	GTCGG
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GCG	GCGAA	GCGAT	GCGAC	GCGAG	GCGTA	GCGTT	GCGTC	GCGTG	GCGCA	GCGCT	GCGCC	GCGCG	GCGGA	GCGGT	GCGGC	GCGGG
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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: read1: overrepresented sequences Sampling rate: 1 / 20

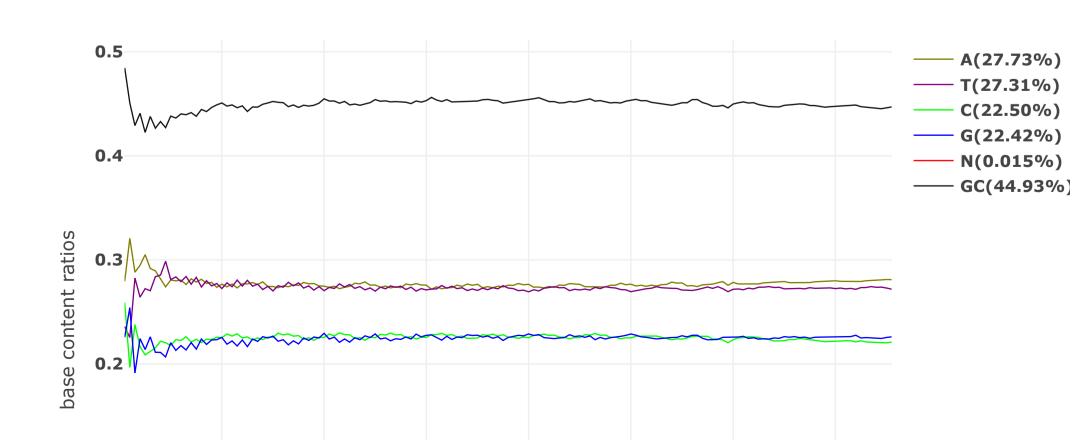
overrepresented sequence	count (% of bases)	distribution: cycle 1 ~ cycle 151
AAAAAAAAA	133371 (0.065424%)	
AACACACACACACACACACACACACACACACACACA	31493 (0.061794%)	
AAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAAC	366 (0.000718%)	
ACAAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTA	721 (0.001415%)	
ACACACACACACACACACACACACACACACACA	931 (0.001827%)	
AC	29026 (0.056954%)	
ACACACACACACACACACACACACACACACACACACAC	739 (0.003625%)	
AC	809 (0.001587%)	
ACAGATCGGAAGAGCACACTCTGAACTCCAGTCACTTAA	841 (0.001650%)	
AG	12836 (0.025186%)	
AGAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	687 (0.001348%)	
AGATCGGAAGAGCACACTCTGAACTCCAGTCACTTAACC	13 (0.000026%)	
AGGAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTA	456 (0.000895%)	
ATAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	648 (0.001271%)	
ATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	31679 (0.062159%)	
CAAGATCGGAAGACCACGTCTGAACTCCAGTCACTTAA	596 (0.001169%)	
CACACACACACACACACACACACACACACACAAA	1777 (0.003487%)	
CACACACACACACACACACACACACACACACACACA	26805 (0.052596%)	
CACACACACACACACACACACACACACACACACACACA	983 (0.004822%)	
CACACACACACACACACACACACACACACACACAC	554 (0.001087%)	
CCAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	884 (0.001735%)	

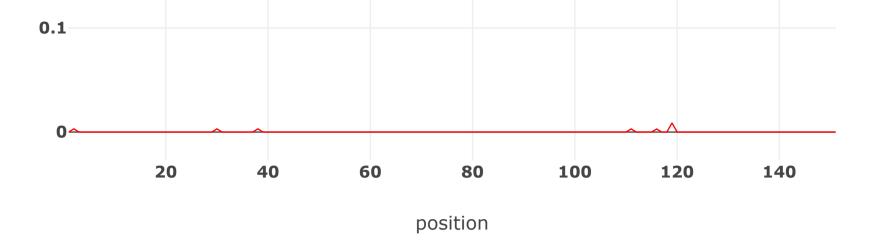
CGAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	585 (0.001148%)	
CTAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	524 (0.001028%)	
стстстстстстстстстстстстстстст	6140 (0.012048%)	
GAAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	458 (0.000899%)	
GA	11471 (0.022508%)	
GATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAACCT	100 (0.000196%)	
GCACACACACACACACACACACACACACACACACACACA	37788 (0.074146%)	
GCAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	620 (0.001217%)	
GGAGATCGGAAGCACACGTCTGAACTCCAGTCACTTAA	528 (0.001036%)	
GGGAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTA	605 (0.001187%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	253 (0.000496%)	
GTAGATCGGAAGACCACGTCTGAACTCCAGTCACTTAA	394 (0.000773%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGA	1731 (0.003396%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	60149 (0.118022%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	358 (0.001756%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTTTT	840 (0.001648%)	
TAAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	526 (0.001032%)	
TACACACACACACACACACACACACACACACACACA	29501 (0.057886%)	
TCACACACACACACACACACACACACACACACACAC	26735 (0.052458%)	
TCAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	746 (0.001464%)	
TCTAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTA	256 (0.000502%)	
тстстстстстстстстстстстстстстс	7805 (0.015315%)	
TGAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	1179 (0.002313%)	
TGTAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTA	380 (0.000746%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGAG	1774 (0.003481%)	
тстстстстстстстстстстстстстс	41526 (0.081480%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	504 (0.002472%)	
тстстстстстстстстстстстстстстт	879 (0.001725%)	
TTAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	507 (0.000995%)	
TTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	26377 (0.051756%)	
TTTAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTA	244 (0.000479%)	
		-

After filtering: read2: quality



After filtering: read2: base contents





After filtering: read2: KMER counting

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

AMAMA AMAMA AMAMA AMAMA AMAMA AMATA AMATA AMATA AMATA AMATA AMATA AMAMA AMA				•••	targer									6.4			0.0
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GCT GCTAA GCTAT GCTAC GCTAG GCTTA GCTTT GCTTC GCTTG GCTCA GCTCT GCTCC GCTCG GCTCA GCTCG GCTCA GCTCT GCTCC GCTCG GCC GCCAA GCCAT GCCAC GCCAG GCCAA GCCTT GCCTC GCCTC GCCCA GCCCA GCCCC GCCCG GCCCA GCCCA GCCCC GCG GCCAA GCCAT GCCAC GCCAA GCCAT GCCAC GCCAA GCAAA GCAAAA GCAAAAAAAA																	
GCC GCCAA GCCAT GCCAC GCCAG GCCTA GCCTT GCCTC GCCTG GCCCA GCCCT GCCCC GCCCG GCCGA GCCGT GCCGC GCCGC GCG GCGAA GCGAT GCGAC GCGAAA GCGAT GCGAC GCGAAA GCGAT GCGAC GCGAAA GCGAT GCGAC GCGAAA GCGAT GCGACA GCACA GCA																	
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												-					
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																	
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		GGTAA															
	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	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
AAAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	281 (0.000552%)	
AAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGT	27 (0.000053%)	

ACAAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAAT	611 (0.001200%)	
ACACACACACACACACACACACACACACACACAA	2750 (0.005399%)	
AC	85516 (0.167887%)	
ACACACACACACACACACACACACACACACACACACAC	734 (0.003603%)	
ACACACACACACACACACACACACACACACACACACACA	2207 (0.004333%)	
ACAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	595 (0.001168%)	
AG	11506 (0.022589%)	
AGAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	768 (0.001508%)	
AGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTA	16 (0.000031%)	
AGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTT	7 (0.000014%)	
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGC	17 (0.000033%)	
AGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTAGA	6 (0.000012%)	
AGGGAAAGAGTGTTAATGGCAAGGTGTAGATCTCGGTGGT	16 (0.000031%)	
AGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	25326 (0.049721%)	
ATAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	522 (0.001025%)	
ATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAA	114 (0.000224%)	
ATGTGTGTGTGTGTGTGTGTGTGTGTGTGT	28700 (0.056345%)	
CAAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	391 (0.000768%)	
CACACACACACACACACACACACACACACACAAA	2005 (0.003936%)	
CACACACACACACACACACACACACACACACACACACA	54269 (0.106542%)	
CACACACACACACACACACACACACACACACACACACA	1023 (0.005021%)	
CACACACACACACACACACACACACACACACACACAGA	1271 (0.002495%)	
CCAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	572 (0.001123%)	
cccccccccccc	6409 (0.006291%)	
CGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGG	50 (0.000098%)	
CGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTAGATCTCG	8 (0.000016%)	
CTAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	516 (0.001013%)	
стстстстстстстстстстстстстстст	8278 (0.016252%)	
GAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTG	42 (0.000082%)	
GAAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	372 (0.000730%)	
GA	10605 (0.020820%)	
GAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGG	458 (0.000899%)	
GAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTAG	29 (0.000057%)	

GAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTTG	7 (0.000014%)	
GATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCA	32 (0.000063%)	
GCACACACACACACACACACACACACACACACACACACA	38669 (0.075916%)	
GCAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	467 (0.000917%)	
GCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTAGAT	9 (0.000018%)	
GGAAAGAGTGTTAATGGCAAGGTGTAGATCTCGGTGGTCG	8 (0.000016%)	
GGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGT	27 (0.000053%)	
GGAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	893 (0.001753%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	4 (0.000020%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	34 (0.000067%)	
GTAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	682 (0.001339%)	
GTAGGGAAAGAGTGTTAATGGCAAGGTGTAGATCTCGGTG	14 (0.000027%)	
GTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTAGATCT	9 (0.000018%)	
GTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	70 (0.000137%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTG	1095 (0.002150%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	33670 (0.066102%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	370 (0.001816%)	
TAAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	390 (0.000766%)	
TCAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	535 (0.001050%)	
TCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAG	39 (0.000077%)	
тстстстстстстстстстстстстстстстстс	11221 (0.022029%)	
TGAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	1459 (0.002864%)	
TGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	60 (0.000118%)	
TGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	30 (0.000059%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGAG	1917 (0.003764%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	60561 (0.118895%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	744 (0.003652%)	
TTAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	695 (0.001364%)	
TTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	50 (0.000098%)	