PE500

Summary

General

fastp version:	0.19.4 (https://github.com/OpenGene/fastp)		
sequencing:	paired end (151 cycles + 151 cycles)		
mean length before filtering:	151bp, 151bp		
mean length after filtering:	146bp, 146bp		
duplication rate:	3.224185%		
Insert size peak:	151		

Before filtering

total reads: 626.930540 M				
total bases: 94.666512 G				
Q20 bases:	88.200403 G (93.169592%)			
Q30 bases:	81.377053 G (85.961817%)			
GC content:	46.100595%			

After filtering

total reads:	478.955820 M
total bases:	70.144072 G
Q20 bases:	68.463901 G (97.604686%)
Q30 bases:	64.829581 G (92.423464%)
GC content:	44.865838%

Filtering result

reads passed filters:	478.955820 M (76.396951%)
reads with low quality:	118.694782 M (18.932685%)
reads with too many N:	4.750000 K (0.000758%)
reads too short:	29.240170 M (4.664021%)
reads with low complexity:	35.018000 K (0.005586%)

Adapters

Adapter or bad ligation of read1

Sequence	Occurrences
A	900457
AG	805683
AGA	916776
AGAT	772406
AGATC	902546

AGATCG	975134
AGATCGG	967119
AGATCGGA	1114232
AGATCGGAA	1148214
AGATCGGAAG	1093704
AGATCGGAAGA	1056252
AGATCGGAAGAG	925835
AGATCGGAAGAGC	789494
AGATCGGAAGAGCA	779653
AGATCGGAAGAGCAC	861368
AGATCGGAAGAGCACA	746933
AGATCGGAAGAGCACAC	860300
AGATCGGAAGAGCACACG	932693
AGATCGGAAGAGCACACGT	883622
AGATCGGAAGAGCACACGTC	899782
AGATCGGAAGAGCACACGTCT	788636
AGATCGGAAGAGCACACGTCTG	674080
AGATCGGAAGAGCACACGTCTGA	613186
AGATCGGAAGACACGTCTGAA	576974
AGATCGGAAGACCACGTCTGAAC	565570
AGATCGGAAGACCACGTCTGAACT	566691
AGATCGGAAGACCACGTCTGAACTC	682278
AGATCGGAAGACCACGTCTGAACTCC	690214
AGATCGGAAGACCACGTCTGAACTCCA	812752
AGATCGGAAGACCACGTCTGAACTCCAG	839218
AGATCGGAAGACCACGTCTGAACTCCAGT	711492
AGATCGGAAGACCACGTCTGAACTCCAGTC	697356
AGATCGGAAGACCACGTCTGAACTCCAGTCA	547339
AGATCGGAAGACCACGTCTGAACTCCAGTCACTTAA	571316
AGATCGGAAGACCACGTCTGAACTCCAGTCACTTAAC	621651
AGATCGGAAGACCACGTCTGAACTCCAGTCACTTAACC	710881
AGATCGGAAGACCACGTCTGAACTCCAGTCACTTAACCT	678196
AGATCGGAAGACCACGTCTGAACTCCAGTCACTTAACCTT	579666
AGATCGGAAGACCACGTCTGAACTCCAGTCACTTAACCTTC	526496
AGATCGGAAGACCACGTCTGAACTCCAGTCACTTAACCTTCG	758607
AGATCGGAAGACCACGTCTGAACTCCAGTCACTTAACCTTCGA	600124
AGATCGGAAGACCACGTCTGAACTCCAGTCACTTAACCTTCGATC	601838
other adapter sequences	19178204

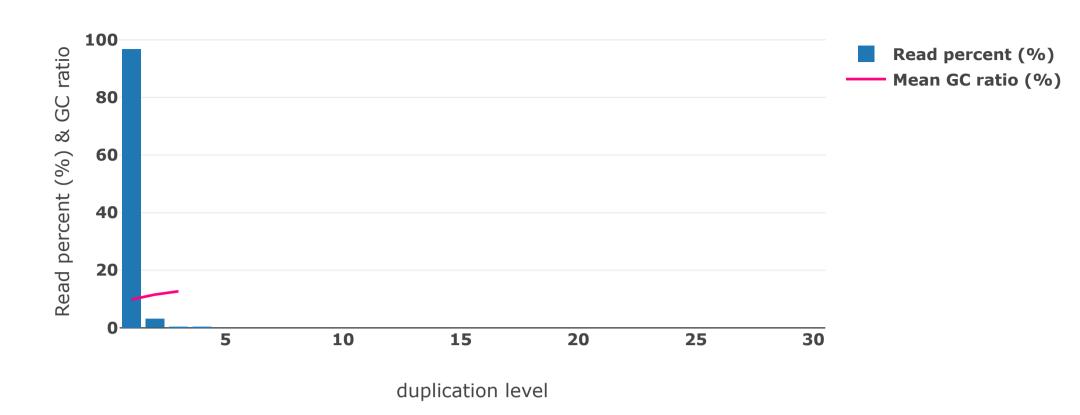
Adapter or bad ligation of read2

Sequence	0ccurrences
A	903889

AG	792176
AGA	878941
AGAT	811324
AGATC	1007860
AGATCG	988131
AGATCGG	1044726
AGATCGGA	1110518
AGATCGGAA	1078763
AGATCGGAAG	1089410
AGATCGGAAGA	1079489
AGATCGGAAGAG	950838
AGATCGGAAGAGC	838829
AGATCGGAAGAGCG	888774
AGATCGGAAGAGCGT	668378
AGATCGGAAGAGCGTC	936682
AGATCGGAAGAGCGTCG	899017
AGATCGGAAGAGCGTCGT	823140
AGATCGGAAGAGCGTCGTG	908011
AGATCGGAAGAGCGTCGTGT	792237
AGATCGGAAGAGCGTCGTGTA	601684
AGATCGGAAGAGCGTCGTGTAG	699214
AGATCGGAAGAGCGTCGTGTAGG	674364
AGATCGGAAGAGCGTCGTGTAGGG	564195
AGATCGGAAGAGCGTCGTGTAGGGA	586247
AGATCGGAAGAGCGTCGTGTAGGGAA	545824
AGATCGGAAGAGCGTCGTGTAGGGAAAG	595503
AGATCGGAAGAGCGTCGTGTAGGGAAAGA	654133
AGATCGGAAGAGCGTCGTGTAGGGAAAGAG	744614
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGT	715275
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTG	647621
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTT	535769
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAAT	604544
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	761706
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGG	578834
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGC	653302
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCA	639699
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAG	1250450
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGG	1106741
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTG	885744
other adapter sequences	20461951

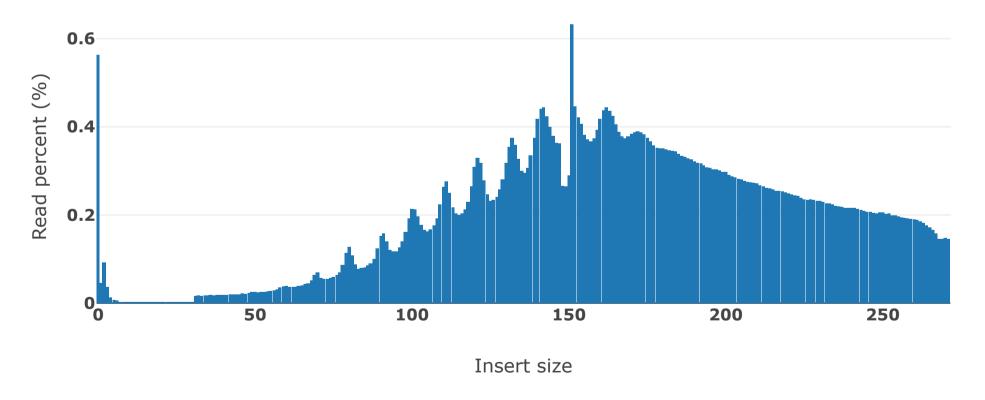
Duplication

duplication rate (3.224185%)



Insert size estimation

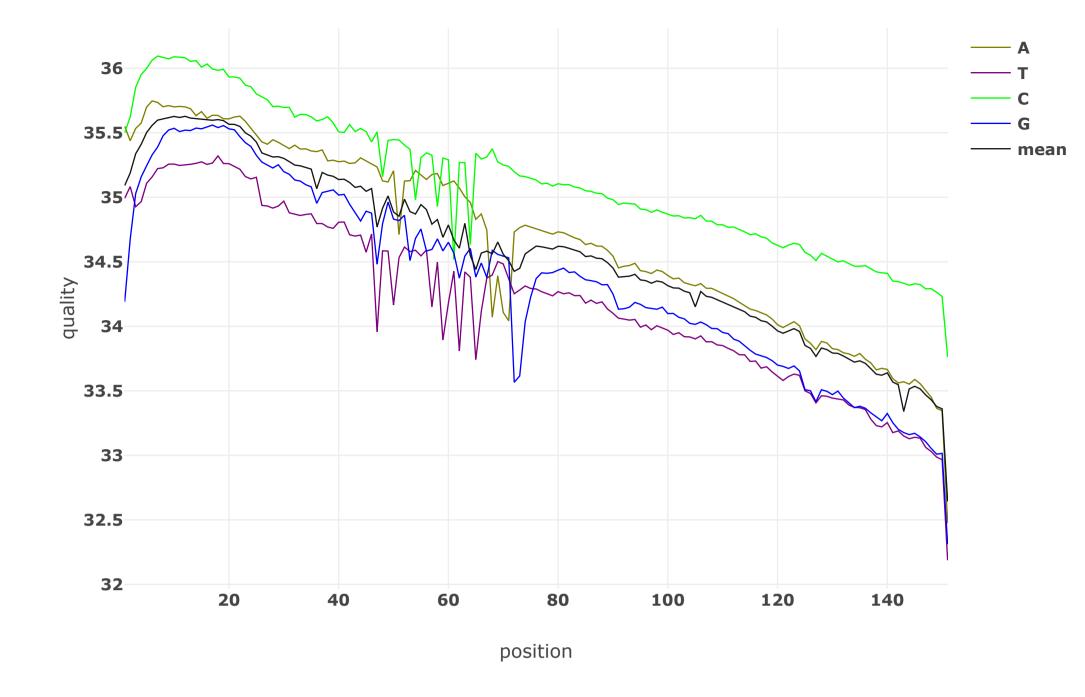
Insert size distribution (46.461314% reads are with unknown length)



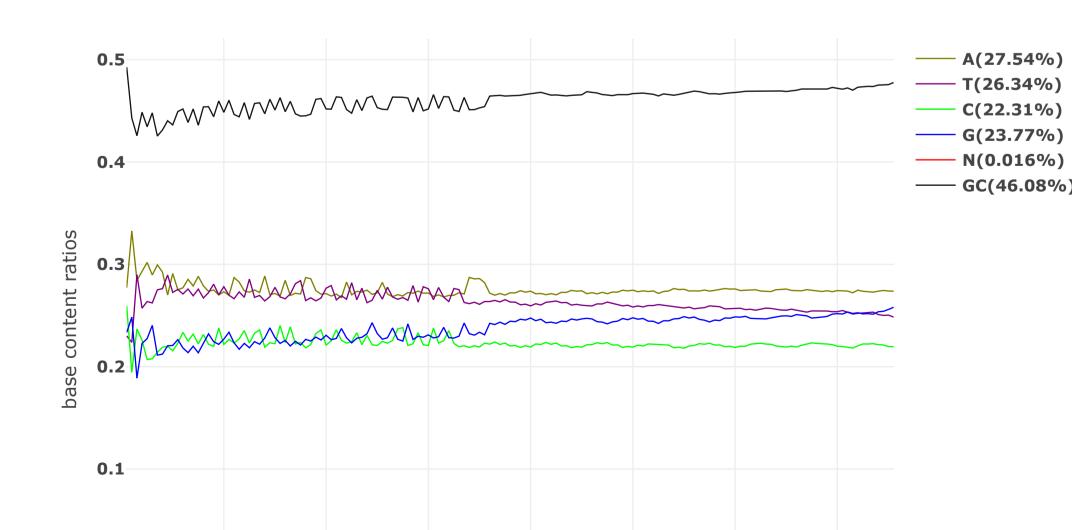
This estimation is based on paired—end overlap analysis, and there are 46.461314% reads found not overlapped. The nonoverlapped read pairs may have insert size <30 or >272, or contain too much sequencing errors to be detected as overlapped.

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.

	AA	AT	AC	AG	TA	TT	TC	TG	CA	СТ	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	ATCCC	ATCGA	ATCGT	ATCGC	ATCGG
ATG	ATGAA	ATGAT	ATGAC	ATGAG	ATGTA	ATGTT	ATGTC	ATGTG	ATGCA	ATGCT	ATGCC	ATGCG	ATGGA	ATGGT	ATGGC	ATGGG
ACA	ACAAA ACTAA	ACAAT ACTAT	ACAAC ACTAC	ACAAG ACTAG	ACATA ACTTA	ACATT ACTTT	ACATC ACTTC	ACATG ACTTG	ACACA ACTCA	ACACT ACTCT	ACACC ACTCC	ACACG ACTCG	ACAGA ACTGA	ACAGT ACTGT	ACAGC ACTGC	ACAGG ACTGG
ACC	ACCAA	ACCAT	ACCAC	ACCAG	ACCTA	ACCTT	ACCTC	ACTTG	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	ТТСТС	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 TGATT	TCGTC TGATC	TCGTG TGATG	TCGCA TGACA	TCGCT TGACT	TCGCC TGACC	TCGCG TGACG	TCGGA TGAGA	TCGGT TGAGT	TCGGC TGAGC	TCGGG 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	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	CTTTT	CTTTC	CTTTG	CTTCA	СТТСТ	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	CCTAT	CCTAC	CCTAG	CCTTA	CCTTT	CCTTC	CCTTG	CCTCA	CCTCT	CCTCC	CCTCG	CCTGA	CCTGT	CCTGC	CCTGG
CCC	CCCAA	CCCAT	CCCAC	CCCAG	CCCTA	CCCTT	CCCTC	CCCTG	CCCCA	CCCCT	CCCCC	CCCCG	CCCGA	CCCGT	CCCGC	CCCGG
CCG	CCGAA CGAAA	CCGAT CGAAT	CCAAC					CCATC		CCGCT			CCAGA	CCACT	CCGGC	CCGGG CGAGG
CGA	CGAAA	CGTAT	CGAAC CGTAC	CGAAG CGTAG	CGATA CGTTA	CGATT CGTTT	CGATC CGTTC	CGATG CGTTG	CGACA CGTCA	CGACT CGTCT	CGACC CGTCC	CGACG CGTCG		CGAGT CGTGT	CGAGC	CGAGG
CGC	CGCAA	CGCAT	CGCAC	CGCAG	CGTTA	CGCTT	CGCTC	CGCTG	CGCCA	CGCCT	CGCCC	CGCCG	CGCGA	CGCGT	CGCGC	CGCGG
CGG	CGGAA	CGCAT	CGGAC	CGCAG	CGGTA	CGGTT	CGGTC	CGGTG	CGCCA	CGGCT	CGGCC	CGGCG		CGCGT	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		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		GCAGT	GCAGC	GCAGG
GCT	GCTAA	GCTAT	GCTAC	GCTAG	GCTTA	GCTTT	GCTTC	GCTTG	GCTCA	GCTCT	GCTCC	GCTCG		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 GGGAA	GGCAT GGGAT	GGCAC GGGAC	GGCAG GGGAG	GGCTA GGGTA	GGCTT GGGTT	GGCTC GGGTC	GGCTG GGGTG	GGCCA GGGCA	GGCCT GGGCT	GGCCC GGGCC	GGCCG GGGCG	GGCGA GGGGA	GGCGT GGGGT	GGCGC GGGGC	GGCGG GGGGG
300	GGGAA	GUUAT	1 GOGAC	GOOAG	- GGGTA	00011	_ 0001C	00010	I GOOCA	1 00001	99966	1 00000	LOUGGA	1 00001	1 addac	00000

Before filtering: read1: overrepresented sequences

Sampling rate: 1 / 20

overrepresented sequence	count (% of bases)	distribution: cycle 1 ~ cycle 151
АААААААА	196364 (0.082971%)	
AACACACACACACACACACACACACACACACACACA	39015 (0.065941%)	
AAGATCGGAAGACCACGTCTGAACTCCAGTCACTTAAC	30455 (0.051473%)	
ACAAGATCGGAAGACCACGTCTGAACTCCAGTCACTTA	32048 (0.054166%)	

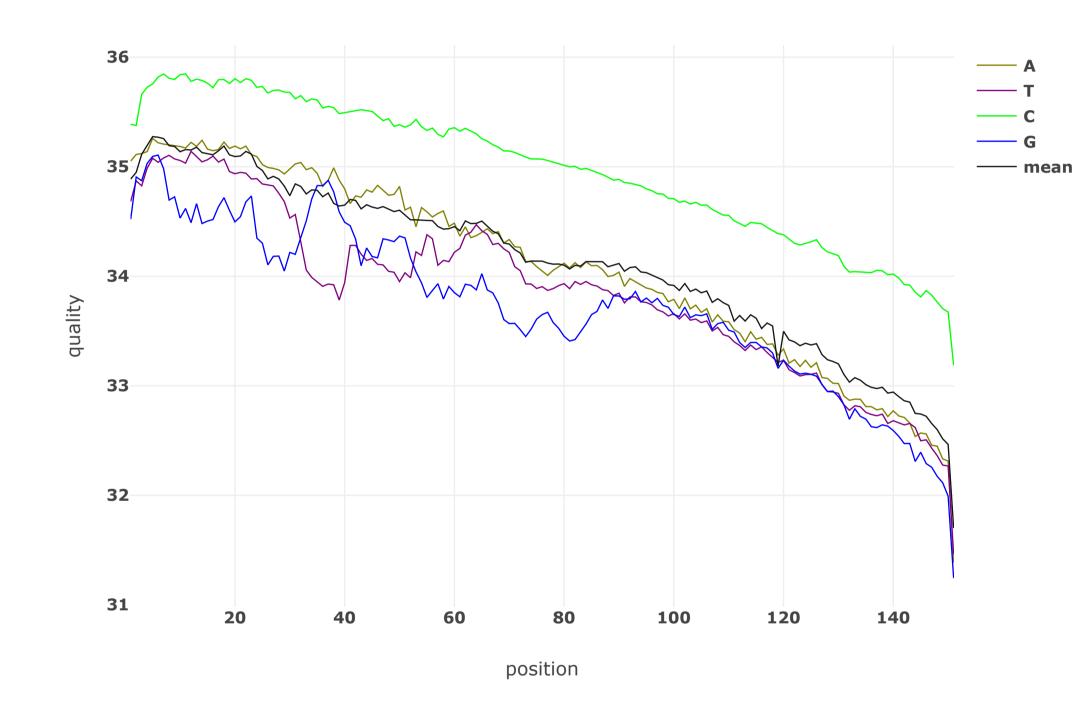
ACACACACACACACACACACACACACACACACACACA	1432 (0.002420%)	
AC	35817 (0.060536%)	
ACACACACACACACACACACACACACACACACACACAC	837 (0.003537%)	
ACACACACACACACACACACACACACACACACACACACA	1006 (0.001700%)	
ACAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	49438 (0.083557%)	
AG	15042 (0.025423%)	
AGAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	47750 (0.080704%)	
AGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAACC	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%)	
ATGTGTGTGTGTGTGTGTGTGTGTGTGTGT	35359 (0.059762%)	
CAAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	44723 (0.075588%)	
CACACACACACACACACACACACACACACAAA	2579 (0.004359%)	
CACACACACACACACACACACACACACACACACACA	35227 (0.059539%)	
CACACACACACACACACACACACACACACACACACACA	1097 (0.004635%)	
CACACACACACACACACACACACACACACACACAC	700 (0.001183%)	
CAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAAC	33 (0.000056%)	
CCAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	58292 (0.098522%)	
CGAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	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%)	
GGAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	33696 (0.056951%)	
GGGAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTA	31575 (0.053366%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	456173 (0.770998%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	17906 (0.075659%)	
GTAGATCGGAAGACCACGTCTGAACTCCAGTCACTTAA	24887 (0.042063%)	
GTATGCCGTCTTCTGCGTGAAAAGGGGGGGGGGGGGGGG	38 (0.000161%)	
GTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	17443 (0.073703%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGA	2295 (0.003879%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	67591 (0.114238%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	349 (0.001475%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTTTT	1054 (0.001781%)	
TAAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	46209 (0.078100%)	
TACACACACACACACACACACACACACACACACACACA	34986 (0.059131%)	
TAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAAC	66 (0.000112%)	
TCACACACACACACACACACACACACACACACACAC	31986 (0.054061%)	
TCAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	52466 (0.088675%)	
TCGATCTCGTATGCCGTCTTCTGCGTGAAAAGGGGGGGGG	13 (0.000055%)	
TCTAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTA	17975 (0.030380%)	
TCTCGTATGCCGTCTTCTGCGTGAAAAGGGGGGGGGGGG	5 (0.000021%)	
тстстстстстстстстстстстстстстс	10024 (0.016942%)	
TGAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	64361 (0.108779%)	
TGCCGTCTTCTGCTTGAAAAGGGGGGGGGGGGGGGGGGG	2210 (0.009338%)	
TGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	23224 (0.098130%)	
TGTAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTA	20609 (0.034832%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGAG	2543 (0.004298%)	
ТGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	47868 (0.080904%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	515 (0.002176%)	

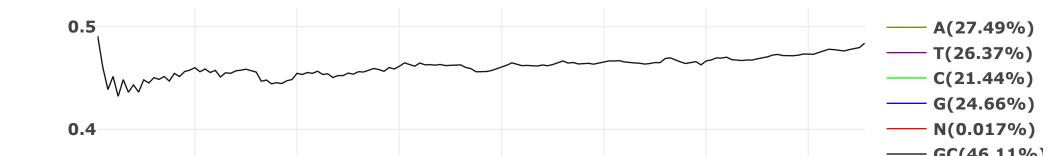
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTTGTT	1135 (0.001918%)	
TTAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	41148 (0.069546%)	
TTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	29671 (0.050148%)	
TTTAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTA	24687 (0.041725%)	

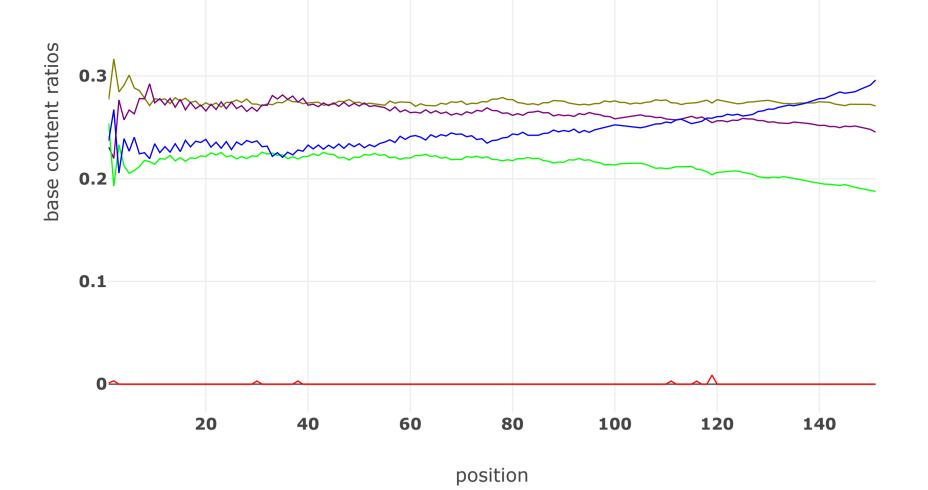
Before filtering: read2: quality

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.

	AA	AT	AC	AG	TA	TT	TC	TG	CA	CT	CC	CG	GA	GT	GC	GG
AAA	AAAA	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 TAGAA	TACAT TAGAT	TACAC TAGAC	TACAG TAGAG	TACTA	TACTT TAGTT	TACTO	TACTG TAGTG	TACCA TAGCA	TACCT TAGCT	TACCC TAGCC	TACCG TAGCG	TACGA TAGGA	TACGT TAGGT	TACGC	TACGG TAGGG
TTA	TTAGAA	TTAGAT	TTAGAC	TTAGAG	TAGTA TTATA	TTATT	TAGTC TTATC	TTATG	TTACA	TTACT	TAGCC	TAGCG	TAGGA	TTAGT	TAGGC TTAGC	TAGGG
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	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	СТААА	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	CTTGG
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
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	CCCTC	CCCTG	CCCCA	CCCCT	CCCCC	CCCCG	CCCGA	CCCGT	CCCGC	CCCGG
			CCGAC						CCGCA							
CGA	CGAAA	CGAAT	CGAAC	CGAAG	CGATA	CGATT	CGATC	CGATG	CGACA	CGACT	CGACC	CGACG	CGAGA	CGAGT	CGAGC	CGAGG
CGT	CGTAA	CCCAT	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	
CGG GAA	CGGAA GAAAA	CGGAT GAAAT	CGGAC GAAAC	CGGAG GAAAG	CGGTA GAATA	CGGTT GAATT	COGTC	CGGTG GAATG	CAACA	CGGCT GAACT	CGGCC GAACC	CGGCG GAACG	CGGGA GAAGA	CGGGT GAAGT	CGGGC GAAGC	CGGGG GAAGG
			-				GAATC		GAACA							
GAT GAC	GATAA GACAA	GATAT GACAT	GATAC GACAC	GATAG GACAG	GATTA GACTA	GATTT GACTT	GATTC GACTC	GATTG GACTG	GATCA GACCA	GATCT GACCT	GATCC GACCC	GATCG GACCG	GATGA GACGA	GATGT GACGT	GATGC GACGC	GATGG GACGG
GAG	GAGAA	GAGAT	GAGAC	GAGAG	GAGTA	GACTT	GACTC	GACTG	GACCA	GACCT	GACCC	GACCG	GAGGA	GAGGT	GAGGC	GACGG
GTA	GTAAA	GTAAT	GTAAC	GTAAG	GTATA	GTATT	GTATC	GAGTG	GTACA	GTACT	GTACC	GTACG	GTAGA	GTAGT	GTAGC	GTAGG
GTT	GTAAA	GTTAT	GTTAC	GTTAG	GTTTA	GTTTT	GTTTC	GTTTG	GTTCA	GTACT	GTTCC	GTTCG	GTAGA	GTTGT	GTAGC	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		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
			001710	001710				- 00110	001011		00.00	- 00.00	0010/1	00.01	- 00.00	

GCC	GCCAA	GCCAI	GCCAC	GCCAG	GCCTA	GCCTT	GCCIC	GCCIG	GCCCA	GCCCI	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

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

Sampling rate: 1 / 20		
overrepresented sequence	count (% of bases)	distribution: cycle 1 ~ cycle 151
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%)	
ACACACACACACACACACACACACACACACACACACACA	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%)	
CACACACACACACACACACACACACACACACACACACA	64140 (0.108406%)	
CACACACACACACACACACACACACACACACACACACA	1058 (0.004470%)	
CACACACACACACACACACACACACACACACAGA	1557 (0.002632%)	

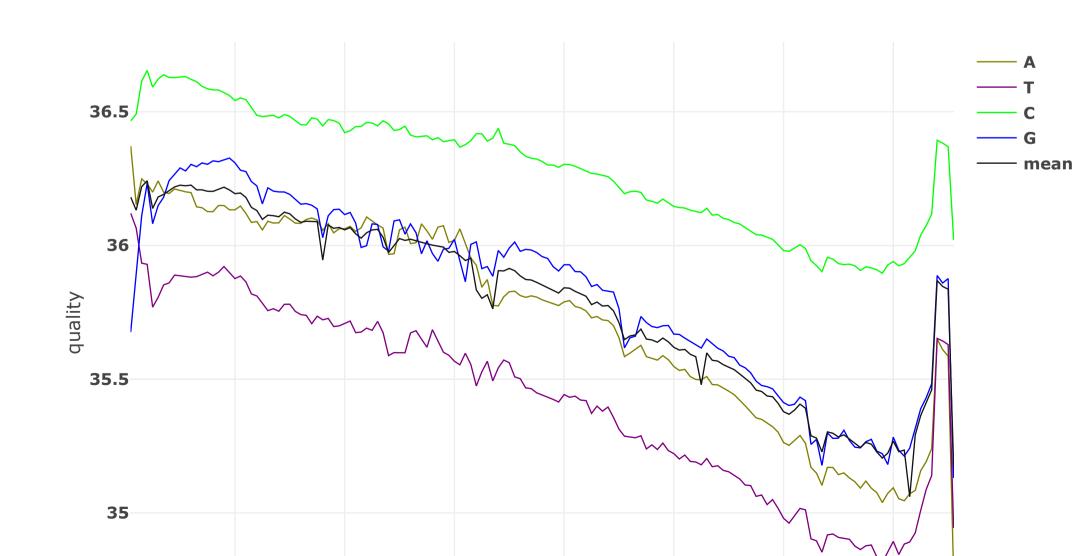
CAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGG	8 (0.000014%)	
CCAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	51751 (0.087467%)	
ccccccccccccc	25483 (0.021535%)	
CGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGG	769 (0.001300%)	
CGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTAGATC	84 (0.000142%)	
CGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTAGTTC	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%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	28297 (0.047826%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	2694 (0.004553%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	3172 (0.005361%)	

GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	2354 (0.003979%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	2989 (0.005052%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	2009 (0.003395%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	2449 (0.004139%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1713 (0.002895%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	2223 (0.003757%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	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%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	830 (0.003507%)	
GGGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1530 (0.006465%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	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%)	
GTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	4485 (0.018951%)	
GTGTAGGGAAAGAGTGTTAATGGCAAGGTGTAGATCTCGG	163 (0.000275%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGA	1521 (0.002571%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	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%)	
тстстстстстстстстстстстстстстстстс	12449 (0.021041%)	
TGAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	86880 (0.146840%)	
TGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	11442 (0.019339%)	
TGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	4618 (0.019513%)	
TGTAGGGAAAGAGTGTTAATGGCAAGGTGTAGATCTCGGT	108 (0.000183%)	
TGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	41384 (0.069945%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGAG	2647 (0.004474%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	70321 (0.118853%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	741 (0.003131%)	
TTAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	60416 (0.102112%)	
TTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	28677 (0.048468%)	

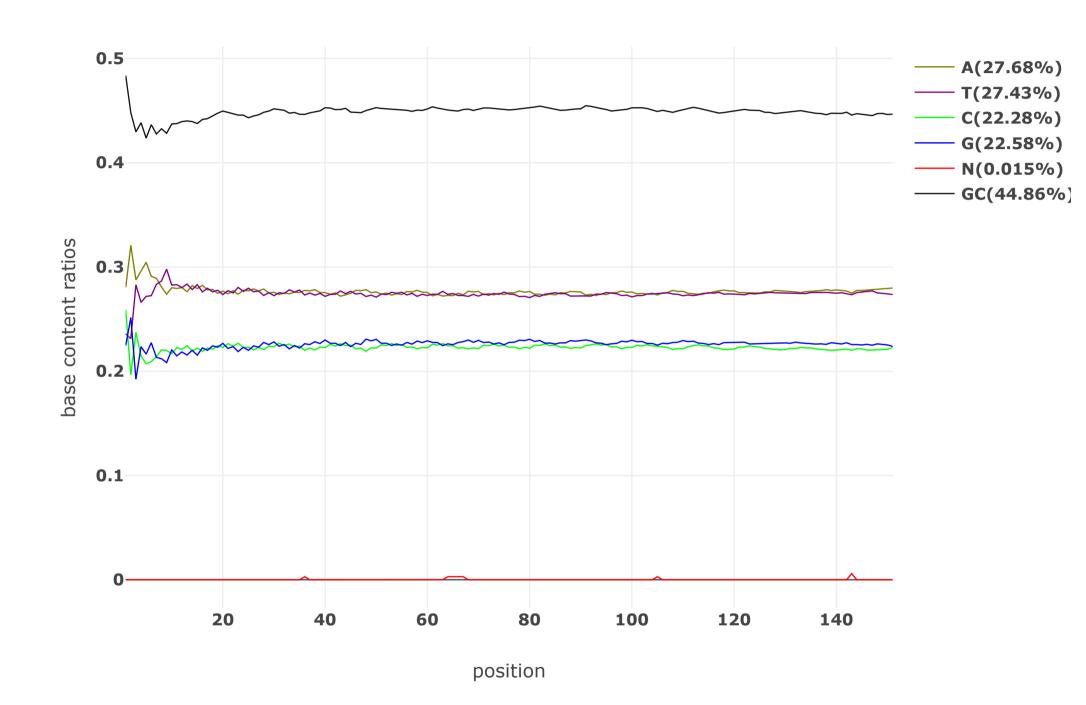
After filtering

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.

	AA	AT	AC	AG	TA	TT	TC	TG	CA	CT	CC	CG	GA	GT	GC	GG
AAA	AAAA	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	ТТСТС	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	тсттс	TCTTG	TCTCA	ТСТСТ	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	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	CTTTT	CTTTC	CTTTG	CTTCA	СТТСТ	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	CCTAT	CCTAC	CCTAG	CCTTA	CCTTT	CCTTC	CCTTG	CCTCA	ССТСТ	ССТСС	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

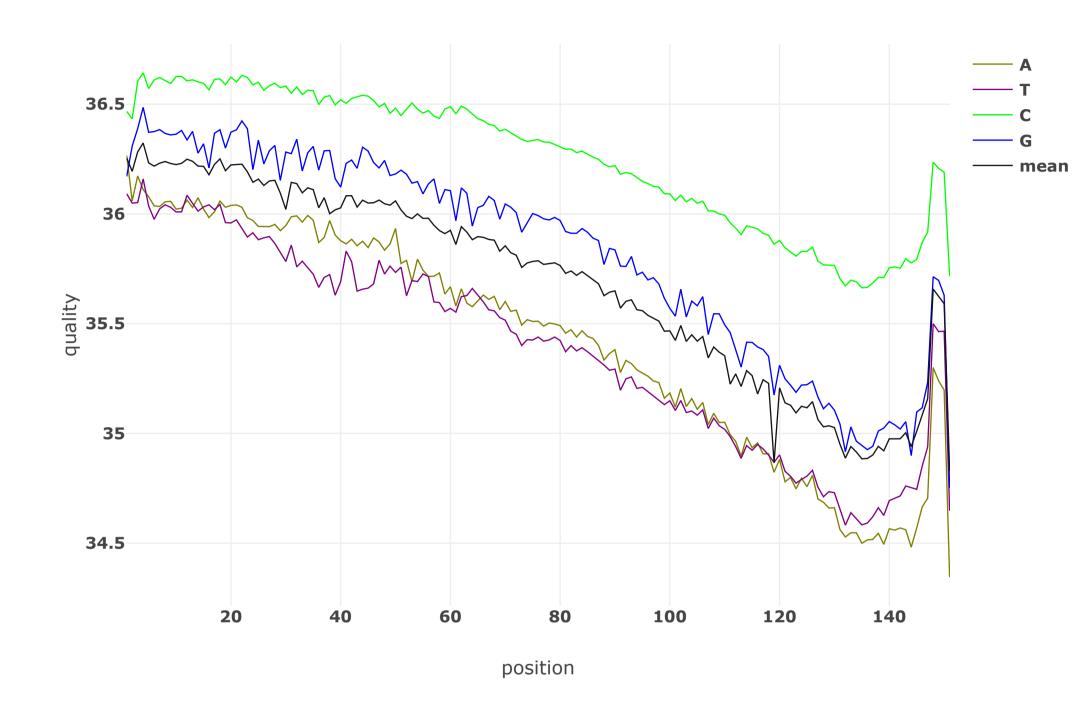
After filtering: read1: overrepresented sequences Sampling rate: 1 / 20

Sampling rate: 1 / 20		
overrepresented sequence	count (% of bases)	distribution: cycle 1 ~ cycle 151
АААААААА	101615 (0.057908%)	
AACACACACACACACACACACACACACACACACACACA	22451 (0.051178%)	
AAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAAC	93 (0.000212%)	
ACAAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTA	204 (0.000465%)	
ACACACACACACACACACACACACACACACACACA	599 (0.001365%)	
AC	20432 (0.046575%)	
ACACACACACACACACACACACACACACACACACACAC	572 (0.003260%)	
AC	575 (0.001311%)	
ACAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	209 (0.000476%)	
AG	9048 (0.020625%)	
AGAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	161 (0.000367%)	
AGGAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTA	87 (0.000198%)	
ATAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	125 (0.000285%)	
ATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	24571 (0.056010%)	
CAAGATCGGAAGACCACGTCTGAACTCCAGTCACTTAA	152 (0.000346%)	
CACACACACACACACACACACACACACACACAAA	1106 (0.002521%)	
CACACACACACACACACACACACACACACACACACACA	18055 (0.041157%)	

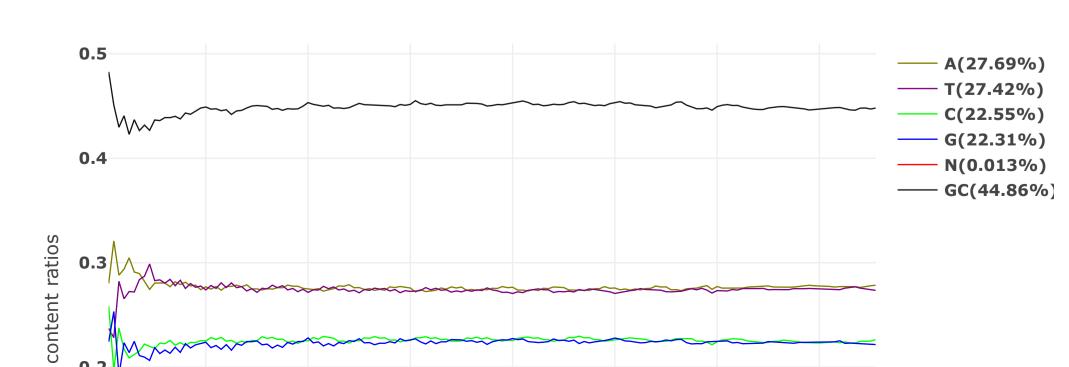
CACACACACACACACACACACACACACACACACACACA	717 (0.004086%)	
CACACACACACACACACACACACACACACACACACAC	369 (0.000841%)	
CCAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	218 (0.000497%)	
CGAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	114 (0.000260%)	
CTAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	141 (0.000321%)	
стстстстстстстстстстстстстстстст	3015 (0.006873%)	
GAAGATCGGAAGACCACACTCTGAACTCCAGTCACTTAA	86 (0.000196%)	
GA	8282 (0.018879%)	
GATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAACCT	6 (0.000014%)	
GCACACACACACACACACACACACACACACACACACACA	27225 (0.062060%)	
GCAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	142 (0.000324%)	
GGAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	96 (0.000219%)	
GGGAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTA	114 (0.000260%)	
GTAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	91 (0.000207%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTG	1124 (0.002562%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	45088 (0.102779%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	283 (0.001613%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTTTT	641 (0.001461%)	
TAAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	133 (0.000303%)	
TACACACACACACACACACACACACACACACACACA	21835 (0.049773%)	
TCACACACACACACACACACACACACACACACACACACA	19356 (0.044122%)	
TCAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	172 (0.000392%)	
TCTAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTA	50 (0.000114%)	
тстстстстстстстстстстстстстстстстс	4035 (0.009198%)	
TGAGATCGGAAGACCACGTCTGAACTCCAGTCACTTAA	269 (0.000613%)	
TGTAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTA	97 (0.000221%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGAG	1250 (0.002849%)	
тстстстстстстстстстстстстстстс	30343 (0.069168%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	424 (0.002416%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTT	682 (0.001555%)	
TTAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAA	119 (0.000271%)	
ТТGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	19779 (0.045087%)	
TTTAGATCGGAAGAGCACACGTCTGAACTCCAGTCACTTA	62 (0.000141%)	

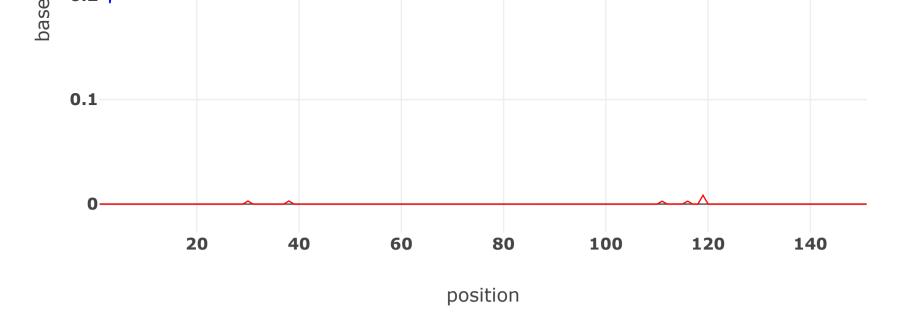
After filtering: read2: quality

Value of each position will be shown on mouse over.



After filtering: read2: base contents





After filtering: read2: KMER counting

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

AAT ALTA AATAL AATAL AATAL AATT AATTL AATTL AATTL AATTL AATC AATC		AA	AT	AC	AG	TA	TT	TC	TG	CA	CT	CC	CG	GA	GT	GC	GG
AMCA AMCARA AMCAT AMCAG AMCAG AMCTA AMCTT AMCTT AMCTT AMCTA AMCTA AMCAG	AAA	AAAAA			AAAAG	AAATA		AAATC	AAATG			AAACC	AAACG				AAAGG
AAGA AAGA AAGA AAGA AAGA AAGA AAGA AAG																	AATGG
ATT ATTAM ATTAM TATAM ATTAM AT																	AACGG
ATT A ATTAA ATTAC ATTAG ATTAG ATTAG ATTAC ATTAG ATTAC ATTACA ACCORDINATE ATTACA ATTACA ATTACA ATTACA ATTACA ACCORDINATE ATTACA ACCORDINATE ATTACA ATTACA ATTACA ACCORDINATE ACCORDINATE ATTACA ACCORDINATE ATTACA ACCORDINATE ACCO				†													
ATC A ATCAM																	
ATG. ATGA. ATGAT ATGA. ATGAC A																	
ACA ACARA A																	ATGGG
ACT ACTAA ACTAT ACTAC ACTAC ACTAC ACTAC ACTAC ACTA ACTA CTT ACTAC ACTAC ACTAC ACCT ACCC ACCCA AC																	ACAGG
ACG ACCAR AC	ACT	ACTAA		ACTAC	ACTAG	ACTTA		ACTTC	ACTTG	ACTCA	ACTCT	ACTCC	ACTCG			ACTGC	ACTGG
AGA AGAMA AGAMT AGAMT AGAMT AGAMG AGAMG AGATT A			ACCAT	ACCAC	ACCAG	ACCTA	ACCTT	ACCTC	ACCTG	ACCCA	ACCCT	ACCCC	ACCCG			ACCGC	ACCGG
AGT AGEA AGEAT AGTAC AGEAR AGE																	ACGGG
AGC AGCAR AGCAT AGCAC AGCAC AGCTA AGCTT AGCTT AGCTT AGCTT CAGCTG AGCCA AGCCA AGCCA AGCGA AGCGT AGCGC AGCGA AGCA A																	AGAGG
AGG AGGAR AGGAT AGGAC AGGAR AGGAT AGGT AGGT AGGT AGGT AGGT AG																	
TAA TAAAA TAAAC TAAAC TAAAC TAATA TAATT TAATT TAATT TAATT TAAC TAAC TAACC TAACC TAACC TAACC TAACC TAACC TAACC TAACC TACC TACCA TACAC TACA																	
TAC 110AA 110AT 10AC 110AC 10AC 10AT 10AT 10ATT 10ATT 10ATT 10ATT 10ATC 10ATC 10ACC																	TAAGG
TAG																	TATGG
THA THAM THAM THAM THAM THAM THAM THAM T	TAC	TACAA	TACAT	TACAC	TACAG	TACTA	TACTT	TACTC	TACTG	TACCA	TACCT	TACCC	TACCG	TACGA	TACGT	TACGC	TACGG
TIT TITAA TITAT TITAC TITAG TITAG TITTA TITTIC TITTC TITTC TITTC TITTCA TITCA	TAG	TAGAA	TAGAT	TAGAC	TAGAG	TAGTA	TAGTT	TAGTC	TAGTG	TAGCA	TAGCT	TAGCC	TAGCG	TAGGA	TAGGT	TAGGC	TAGGG
TTC TICAA TICAT TICAC TICAG TICAG TICTA TICTT TICTC TICTG TICCA TICCT TICCG TICGG TICGG TICGG TICGG TICGG TICAG TICAGT TI	TTA	TTAAA	TTAAT	TTAAC	TTAAG	TTATA	TTATT	TTATC	TTATG	TTACA	TTACT	TTACC	TTACG	TTAGA	TTAGT	TTAGC	TTAGG
TIGA TIGAN TIGAT TIGAT TIGAC TIGAG TIGTA TIGTT TIGTC TIGTG TIGCA TIGCT TIGCC TIGGG TIGGA TIGGT TIGGC TIGGC TIGAG TACAA TCAAT TCAAT TCAAT TCAAT TCATT TCATC TCATG TCACA TCACC TCACG TCAGA T																	TTTGG
TCA TCAAA TCAAT TCAAC TCAAC TCAAC TCATT TCATT TCATT TCATT TCATT TCATT TCATT TCACA TCATC TCACC TCCAC TC																	TTCGG
TCCT TCCAA TCCAA TCCAA TCCAC TCCAG TCCTTA TCTTC TCTTC TCTCA TCCTTA TCCCA TCCCAA TCCCAA TCCAA TCCAA TCCAA TCCACA TCCAA TCCACA TCCACA TCCACA TCCACA TCCACA TCCACA TCCACA TCCCAA TCC																	TTGGG
TCC TCCAA TCCAT TCCAC TCCAC TCCAC TCCAC TCCAC TCCAC TCCCT TCCCC TC																	
TCG TCGAA TCGAT TCGAC TCGAC TCGAC TCGTA TCGTT TCGTC TCGTC TCGTC TCGCA TCGCT TCGCC TCGGA TCGGA TCGGT TCGGC TCGAC TCGAC TCGAC TGACAC TCGAC TCGAC TCGAC TGACAC																	
TGA TGAAA TGAAT TGAAC TGAAG TGATA TGATC TGATC TGATC TGATC TGACC TGACG TGACG TGACG TGACG TGACG TGTA TGTA																	TCGGG
TGT TGTAA TGTAT TGTAC TGTAG TGTAG TGTTA TGTTT TGTTC TGTTG TGTCA TGTCT TGTCC TGTGG TGTGA TGTGT TGTGC TGTGA TGCAT TGCAC TGCAA TGCAT TGGAC TGGAT TGGAC TGGAC TGGAT TGGAC TGGAT TGGAC TGGAT TGGAC TGGAT TGGAC TGGAT TGGAC TGGAT TGGAC TGGAC TGGAT TGGAC TGGAT TGGAC TGGAT TGGAC TGGAT TGGAC CAAGAT CAAAC C									-								TGAGG
TGG TGGAA TGGAT TGGAC TGGAG TGGTA TGGTT TGGTC TGGTC TGGCT TGGCC TGGCG TGGGA TGGGT TGGCC TGGAC CAAA CAAAA CAAAAT CAAAC CAAAG CAATT CAATT CAATT CAATT CAATC CAACA CAACT CAACC CAACG CAAGA CAAGT CAAGC CAAGA CAAAA CAAAAT CAAAC CAACAT CAACAC CAACAG CATTA CATTI CATTC CATTG CATCA CATCT CACCC CAACG CAAGA CAAGT CAAGC CAAGA CACAT CACAT CACAC CACAT CACAG CATTA CATTI CATTC CATTG CATCA CACCT CACCC CACCG CACGA CACGT CAGGA CAGGT CAGGA CAGAT CAGAC CACAG CACGT CACCA CACCT CACCC CACCG CAGGA CACGT CAGGA CAGAT CAGAC CAGAG CAGAT CAGAC CAGAT CAGAT CAGAT CAGTI CAGTC CACTG CACCA CACCT CACCC CAGCG CAGGA CAGGT CAGGA CAGAT CAGAC CAGAG CAGAT CAGAC CAGAT CAGAT CAGAT CAGTI CATTC CATTG CATCA CACCA CACCT CACCC CAGGA CAGGA CAGGT CAGGA CAGGT CAGGA CAGAT CAGAC CAGA		TGTAA	TGTAT	TGTAC	TGTAG		TGTTT	TGTTC			TGTCT	TGTCC	TGTCG			TGTGC	TGTGG
CAA CAAAA CAAAT CAAAC CAAAG CAATA CATT CAATC CAATG CAACT CAACT CAACG CAAGA CAAGA CAAGT CAAGC CATG CATT CATT	TGC	TGCAA	TGCAT	TGCAC	TGCAG	TGCTA	TGCTT	TGCTC	TGCTG	TGCCA	TGCCT	TGCCC	TGCCG	TGCGA	TGCGT	TGCGC	TGCGG
CAT CATAA CATAT CATAC CATAG CATTA CATTT CATTC CATTG CATCA CATCA CATCA CATCA CATGA CATGA CATGA CATGA CATGA CATGA CATGA CATGA CACAA CACAAT CACAC CACAC CACCA C								TGGTC					TGGCG				TGGGG
CAC CACAA CACAT CACAC CACAG CACTA CACTT CACTC CACTG CACCG CACCG CACGG CACGG CACGT CACGC CACGC CAGGA CAGGT CAGGT CAGGT CAGGT CAGGT CAGGT CAGAC CAGAC CAGGT CAGGT CAGGT CAGGT CAGGT CAGGT CAGACA CAGGT CAGACA CAGGT CAGACA CAGAT CATAT CATAC CATAC CATAC CACAC CAGCT CAGCT CAGCC CAGGG CAGGA CAGGT CAGGT CAGGT CAGGT CAGAC CAGAT CATAT CATAC CATAC CATAC CACAC CAGCT																	CAAGG
CAG CASAA CAGAT CAGAC CAGAS CAGTA CAGTT CAGTT CAGTG CAGCA CAGCT CAGCG CAGCG CAGGA CAGGT CAGGC CAGG CAGG												-					
CTA CTAAA CTAAT CTAAC CTAAG CTATA CTATT CTATC CTATG CTACA CTACT CTACC CTACG CTACG CTACG CTACG CTACG CTT CTTAA CTATA CTAC CTACG CTACG CTATA CTATT CTATT CTATT CTTC CTCAA CTCAT CTCAC CTCAC CTCAC CTCAC CTTCAC CTTCAC CTTCAC CTCCAC CTCCACC CTCCAC CTCCACAC CTCCACACAC CTCCACAC CTCCACACAC CTCCACACACA																	
CTT CTCAA CTTAT CTTAC CTTAG CTTTA CTTTC CTTTC CTTTG CTTCA CTTCT CTTCC CTTCG CTTCG CTTCG CTTCG CTTCAT CTCCT CTCAA CTCAT CTCAT CTCAC CTCAA CTCAT CTCAC CTCAA CTCAT CTCAC CTCAA CTCAT CTCAC CTCAA CTCAT CTCAC C																	
CTC CTGAA CTGAT CTGAC CTGAG CTGTA CTGTT CTGTC CTGTG CTGCA CTGCA CTGCT CTGCC CTGCG CTGCA CTGGT CTGCC CTGG CTGAA CTGAT CTGAC CTGAG CTGTA CTGTT CTGTC CTGTG CTGCA CTGCT CTGCC CTGCG CTGCA CTGGA CCAAA CCAAAA CCAAAAA CCAAAA CCAAAAA CCAAAA CCAAA CCAAAA												-					CTTGG
CTG CTGAA CTGAT CTGAC CTGAG CTGTA CTGTT CTGTC CTGTG CTGCA CTGCT CTGCC CTGCG CTGGA CTGGT CTGGC CTGCA CCAAA CCAAT CCAAC CCAACA CCAAT CCAAC CCAACA CCACT CCACC CCACG CCAGG CCAGG CCAGT CCACC CCACC CCACG CCACG CCACA CCACT CCACC CCACG CCAGA CCACT CCACC CCACG CCAGA CCACT CCACC CCACG CCACA CCACT CCACC CCACG CCACA CCCACT CCACC CCACG CCACA CCCACT CCACC CCACG CCACA CCCACT CCACC CCCACG CCCACG CCCACG CCCCACG CCCCACG CCCCACG CCCCACG CCCCACC CCCCACC CCCCACCCCCCCC																	CTCGG
CCT CCTAA CCTAT CCTAC CCTAG CCTTA CCTTT CCTTC CCTTG CCTCA CCTCT CCTCC CCTGA CCTGA CCTGT CCTGC CCTGC CCCCA CCCCAA CCCCAT CCCCA CCCCAA CCCCAT CCCCA CCCCAA CCCCAT CCCCAA CCCCAT CCCCAA CCCCAT CCCCAA CCCAAA CCAAAA CCAAAAA CCAAAA CCAAAA CCAAAA CCAAAA CCAAAA CCAAAA CCAAAA CCAAAA CCAAAAA CCAAAAAA		CTGAA	CTGAT	CTGAC	CTGAG		CTGTT	CTGTC	CTGTG	CTGCA	CTGCT	CTGCC	CTGCG		CTGGT	CTGGC	CTGGG
CCC CCCAA CCCAT CCCAC CCCAG CCCTA CCCTT CCCTC CCCTG CCCCA CCCCT CCCCC CCCCG CCCGA CCCGT CCCGC CCCG CCG CCGAA CCGAT CCGAC CCGAG CCGTA CCGTT CCGTC CCGTC CCGCA CCGCT CCGCC CCGCG CCGAA CCGGT CCGGC CCGG CGA CGAAA CGAAT CGAAC CGAAG CGATA CGATT CGATC CGATG CGACA CGACT CGACC CGACG CGAGA CGAGT CGAGC CGT CGTAA CGTAT CGTAC CGTAG CGTTA CGTTT CGTTC CGTTG CGTCA CGTCT CGTCC CGCGG CGAGA CGAGT CGAGC CGC CGCAA CGCAT CGCAC CGCAG CGCTA CGCTT CGTCC CGTG CGCCA CGCCT CGCCC CGCGG CGGAA CGCGT CGGCC CGC CGCAA CGCAT CGCAC CGCAG CGCTA CGCTT CGTCC CGTG CGCCA CGCCT CGCCC CGCGG CGCGA CGCGT CGCCC CGC CGCAA CGCAT CGCAC CGCAG CGCTA CGCTT CGCTC CGCTG CGCCA CGCCT CGCCC CGCGG CGCGA CGCGT CGCCC CGC CGCAA CGCAT CGCAC CGCAG CGCTA CGCTT CGGTC CGCTG CGCCA CGCCT CGCCC CGCGG CGCGA CGCGT CGCCC CGC CGCAA CGCAT CGCAC CGCAG CGCTA CGCTT CGGTC CGCTG CGCCA CGCCT CGCCC CGCCG CGCGA CGCGT CGCCC CGC CGCAA CGCAT CGCAC CGCAA CGCAT CGCTC CGCTA CGCTT CGCCC CGCCG CGCAA CGCCT CGCCC CGCCG CGC CGCAA CGCAT CGCAC CGCAA CGCTT CGCCC CGCCG CGCAA CGCTT CGCCC CGCCG CGC CGCAA CGCAT CGCAC CGCAA CGCTT CGCCC CGCCG CGCAA CGCCT CGCCC CGCCG CGC CGCAA CGCAT CGCAC CGCAA CGCTT CGCCC CGCCG CGCAA CGCCT CGCCC CGCCG CGCAA CGCCT CGCCC CGCCG CGCAA CGCCT CGCCC CGCCG CGCAA CGCCT CGCCC CGCCG CGCAACAA CAACT CGAACA CAACT CGAACA CAACT CGAACA CAACT CGACCC CAACCA CAACA CAACT CAACA CAACT CAACA CAACT CAACA CAAC	CCA	CCAAA	CCAAT	CCAAC	CCAAG	CCATA	CCATT	CCATC	CCATG	CCACA	CCACT	CCACC	CCACG	CCAGA	CCAGT	CCAGC	CCAGG
CCG CCGAA CCGAT CCGAC CCGAG CCGTA CCGTT CCGTC CCGTG CCGCA CCGCT CCGCG CCGGA CCGGT CCGGC CCGA CGAA CGAAA CGAAT CGAAC CGAAG CGATA CGATT CGATC CGATG CGACA CGACT CGACC CGACG CGAGA CGAGT CGAGC CGT CGTAA CGTAT CGTAC CGTAG CGTTA CGTTT CGTTC CGTTG CGTCA CGTCT CGTCC CGTCG CGTGA CGTGT CGTGC CGC CGCAA CCGCAT CGCAC CGCAG CGCTA CGCTT CGCTC CGCTG CGCCA CGCCT CGCCC CGCCG CGCGA CGCGT CGCCC CGCGC CGCGCCCCCC																	CCTGG
CGA CGAAA CGAAT CGAAC CGAAG CGATA CGATT CGATC CGATG CGACA CGACT CGACC CGACG CGAGA CGAGT CGAGC CGAG CGT CGT CGT CGT CGT CGT CGT CGT CGT CG																	CCCGG
CGT CGTAA CGTAT CGTAC CGTAG CGTTA CGTTT CGTTC CGTTG CGTCA CGTCT CGTCC CGTCG CGTCA CGTGT CGTGC CGTGC CGCC CGC																	
CGC CGCAA CGCAT CGCAC CGCAG CGCTA CGCTT CGCTC CGCTG CGCCA CGCCT CGCCC CGCCG CGCGA CGCGT CGCGC CGCG CGGGA CGCGT CGCGC CGGG CGGAA CGGAT CGGAC CGGAA CGGAT CGGAC CGGAA CGGAT CGGAC CGGAA CGGAT CGGAC CGGAA CGGAT CGGAA CGAAAA GAAAA GAA																	
CGG CGGAA CGGAT CGGAC CGGAG CGGTA CGGTT CGGTC CGGTG CGGCA CGGCT CGGCC CGGCG CGGGA CGGGT CGGGC CGGG GAA GAAAA GAAAT GAAAC GAAAG GAATA GAATT GAATC GAATG GAACA GAACT GAACC GAACG GAAGA GAAGT GAAGC GAAG GAT GATAA GATAT GATAC GATAG GATTA GATTT GATTC GATTG GATCA GACCT GACCC GACCG GACGA GACGT GACGC GATG GAC GACAA GACAT GACAC GACAG GACTA GACTT GACTC GACTG GACCA GACCT GACCC GACCG GACGA GACGT GACGC GACG GAG GAGAA GACAT GACAC GACAG GACTA GACTT GATTC GATTC GATTC GACCC GACCG GACGA GACGT GACGC GACG GTA GTAAA GTAAT GTAAC GTAAG GTATA GTATT GTATC GTATG GTACA GTACT GTACC GTACG GTAGA GTAGT GTAGC GTAG GTT GTTAA GTTAT GTTAC GTTAG GTTTA GTTTT GTTTC GTTTC GTTCA GTTCC GTCCG GTCGA GTCGT GTCGC GTC GTCAA GTCAT GTCAC GTCAG GTCTA GTCTT GTCTC GTCTG GTCCA GTCCT GTCCC GTCCG GTCGA GTCGT GTCGC GTG GTGAA GTCAT GTCAC GTCAG GTCTA GTCTT GTGTC GTGTG GTCCA GTCCT GTCCC GTCCG GTGGA GTGGT GTCGC GTCG GCC GCCAA GCCAT GCACC GCAAG GCCTA GCCTT GCTC GCTC																	CGCGG
GAA GAAAA GAAAT GAAAC GAAAG GAATA GAATT GAATC GAATG GAACA GAACT GAACC GAACG GAAGA GAAGT GAAGC GAAG GAT GATAA GATAT GATAC GATAG GATTA GATTT GATTC GATTG GATCA GATCT GATCC GATCG GATGA GATGA GATGT GATGC GATG GAC GACAA GACAT GACAC GACAG GACTA GACTT GACTC GACTG GACCA GACCT GACCC GACCG GACGA GACGT GACGC GACG GAG GAGAA GAGAT GAGAC GACAG GACTA GACTT GACTC GACTG GACCA GACCT GACCC GACCG GACGA GACGT GAGGC GAGG GTA GTAAA GTAAT GTAAC GTAAG GTATA GTATT GTATC GTATG GTACA GTACT GTACC GTACG GTAGA GTAGT GTAGC GTAG GTT GTTAA GTTAT GTTAC GTTAG GTTTA GTTTT GTTTC GTTTG GTTCA GTTCT GTCCC GTCCG GTCGA GTCGT GTCGC GTC GTCAA GTCAT GTCAC GTCAG GTCTA GTCTT GTCTC GTCTG GTCCA GTCCT GTCCC GTCCG GTCGA GTGGT GTGGC GTG GTGAAA GCAAT GCAAC GCAAC GCATA GCATT GCATC GCATC GCACC GCACC GCACG GCACA GCACT GCC GCCAAA GCCAT GCACC GCCAG GCCTA GCCTT GCCTC GCCCC GCCCG GCCGA GCCGT GCACG GCC GCCAA GCCAA GCCAT GCCAC GCCAG GCCTA GCCTT GCCTC GCCC GCC																	CGGGG
GAT GATAA GATAT GATAC GATAG GATTA GATTT GATTC GATTG GATCA GATCT GATCC GATCG GATCA GA																	GAAGG
GAC GACAA GACAT GACAC GACAG GACTA GACTT GACTC GACTG GACCA GACCT GACCC GACCG GACGA GACGT GACGC GAGG GAGG																	GATGG
GTA GTAAA GTAAT GTAAC GTAAG GTATA GTATT GTATC GTATG GTACA GTACT GTACC GTACG GTAGA GTAGT GTAGC GTAGG GTTAGA GTAGT GTAGC GTAGA GTTT GTTT	GAC		GACAT	GACAC	GACAG	GACTA	GACTT	GACTC	GACTG	GACCA	GACCT	GACCC	GACCG	GACGA	GACGT		GACGG
GTT GTTAA GTTAT GTTAC GTTAG GTTTA GTTTT GTTTC GTTTG GTTCA GTTCT GTTCC GTTCG GTTCA GTCAA GT																	GAGGG
GTC GTCAA GTCAT GTCAC GTCAG GTCTA GTCTT GTCTC GTCTG GTCCA GTCCT GTCCC GTCCG GTCGA GTCGT GTCGC GTCG GTG GTGAA GTGAT GTGAC GTGAG GTGTA GTGTT GTGTC GTGTG GCA GCAAA GCAAT GCAAC GCAAG GCATA GCATT GCATC GCATG GCACA GCACT GCACC GCACG GCAGA GCAGT GCAGC GCT GCTAA GCTAT GCTAC GCTAG GCTTA GCTTT GCTTC GCTTG GCTCA GCCCT GCCCC GCCCG GCCGA GCCGT GCCGC GCC GCCAA GCCAT GCCAC GCCAG GCCAA GCCTT GCCTC GCCTG GCCCA GCCCT GCCCC GCCGG GCCGA GCCGT GCCGC GCCG GCCAA GCCAT GCCAC GCCAG GCCAA GCCGT GCCCC GCCGC GCCGA GCCGT GCCGC GCCG GCCGAA GCCGAT GCCAC GCGAG GCCGAT GCCGT GCCCC GCCGC GCCGC GCCGA GCCGT GCCGC GCCG GCCGAA GCCGAT GCCGC GCGGA GCCGAT GCCGC GCCGC GCCGC GCCGC GCCGC GCCG GCCGAA GCCGAT GCCGC GCGGA GCCGAT GCCGCC GCCGCCGCCCCCCCCCC												•					GTAGG
GTG GTGAA GTGAT GTGAC GTGAG GTGTA GTGTT GTGTC GTGTG GTGCA GTGCT GTGCC GTGCG GTGGA GTGGT GTGCC GTGCG GCA GCAAA GCAAT GCAAC GCAAG GCATA GCATT GCATC GCATG GCACA GCACT GCACC GCACG GCAGA GCAGT GCAGC GCAG GCT GCTAA GCTAT GCTAC GCTAG GCTTA GCTTT GCTTC GCTTG GCTCA GCTCT GCCCC GCCCG GCCGA GCCGT GCCGC GCC GCCAA GCCAT GCCAC GCCAG GCCAA GCCTT GCCTC GCCTG GCCCA GCCCT GCCCC GCCGG GCCGA GCCGT GCCGC GCCG GCGAA GCGAT GCGAC GCGAG GCGTA GCGTT GCGTC GCGTG GCGCA GCGCT GCGCC GCGGA GCCGT GCGCC GCGG																	GTTGG
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 GCTCA GCTCT GCTCC GCC GCCAA GCCAT GCCAC GCCAG GCCTA GCCTT GCCTC GCCTG GCCCA GCCCT GCCCC GCCCG GCCGA GCCGT GCCCC GCCG GCGAA GCGAT GCGAC GCGAG GCGTA GCGTT GCGTC GCGTG GCGCA GCGCT GCGCC GCGCG GCGGA GCGGT GCGCC GCGCC																	
GCT GCTAA GCTAT GCTAC GCTAG GCTTA GCTTT GCTTC GCTTG GCTCA GCTCT GCTCC GCTCG GCTCG GCTCA GCTCT GCTCC GCTCG GCC GCCAA GCCAT GCCAC GCCAG GCCTA GCCTT GCCTC GCCTG GCCCA GCCCT GCCCC GCCCG GCCCG GCCCA GCCCT GCCCC GCCG GCCAA GCCAT GCCAC GCCAC GCCAC GCCCC GCCCA GCCA GCCCA																	
GCC GCCAA GCCAT GCCAC GCCAG GCCTA GCCTT GCCTC GCCTG GCCCA GCCCT GCCCC GCCCG GCCGA GCCGT GCCGC GCCG GCG GCGAA GCGAT GCGAC GCGAG GCGTA GCGTT GCGTC GCGTG GCGCA GCGCT GCGCC GCGCG GCGGA GCGGT GCGGC GCGG																	GCAGG
GCG GCGAA GCGAT GCGAC GCGAG GCGTA GCGTT GCGTC GCGTG GCGCA GCGCT GCGCC GCGCG GCGGA GCGGT GCGGC GCGG																	GCCGG
																	GCGGG
													-				GGAGG
GGT GGTAA GGTAT GGTAC GGTAG GGTTA GGTTT GGTTC GGTTG GGTCA GGTCT GGTCC GGTCG GGTGA GGTGT GGTGC GGTG							GGTTT					1					GGTGG
																	GGCGG
GGG GGGAA GGGAT GGGAC GGGAG GGGTA GGGTT GGGTC GGGTG GGGCA GGGCT GGGCC GGGCG GGGGA GGGGT GGGGC GGGG	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

AAAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	83 (0.000189%)	
ACAAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAAT	157 (0.000358%)	
ACACACACACACACACACACACACACACACACACACA	1815 (0.004143%)	
AC	64015 (0.146116%)	
ACACACACACACACACACACACACACACACACACACAC	556 (0.003173%)	
ACACACACACACACACACACACACACACACACACACACAG	1617 (0.003691%)	
ACAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	138 (0.000315%)	
AG	6943 (0.015848%)	
AGAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	153 (0.000349%)	
AGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTGTA	8 (0.000018%)	
AGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	18213 (0.041572%)	
ATAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	111 (0.000253%)	
ATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAA	22 (0.000050%)	
ATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	21273 (0.048556%)	
CAAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	91 (0.000208%)	
CACACACACACACACACACACACACACACACAAA	1236 (0.002821%)	
CACACACACACACACACACACACACACACACACACA	38873 (0.088728%)	
CACACACACACACACACACACACACACACACACACACA	740 (0.004223%)	
CACACACACACACACACACACACACACACACACACACA	930 (0.002123%)	
CCAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	166 (0.000379%)	
cccccccccccc	2254 (0.002572%)	
CTAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	130 (0.000297%)	
стстстстстстстстстстстстстстст	5882 (0.013426%)	
GAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAGGTG	6 (0.000014%)	
GAAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	68 (0.000155%)	
GA	6097 (0.013917%)	
GAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGG	91 (0.000208%)	
GATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCA	8 (0.000018%)	
GCACACACACACACACACACACACACACACACACACACA	29177 (0.066597%)	
GCAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	101 (0.000231%)	
GGAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	124 (0.000283%)	
GTAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	135 (0.000308%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTG	724 (0.001653%)	
	24053 (0.054901%)	

GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT		
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	263 (0.001501%)	
TAAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	81 (0.000185%)	
TCAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	100 (0.000228%)	
TCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATGGCAAG	10 (0.000023%)	
тстстстстстстстстстстстстстстстс	7759 (0.017710%)	
TGAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	327 (0.000746%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGAG	1141 (0.002604%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	41790 (0.095387%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	555 (0.003167%)	
TTAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTTAATG	123 (0.000281%)	

fastp -i gDNA_S18_L002_R1_001.fastq.gz -I gDNA_S18_L002_R2_001.fastq.gz -o PE500_F.trimmed.fq.gz -0 PE500_R.trimmed.fq.gz -n 5 - q 30 -u 30 --length_required=100 --low_complexity_filter --complexity_threshold=20 --cut_by_quality3 --cut_by_quality5 --cut_window_size=4 --cut_mean_quality=30 --trim_poly_g --poly_g_min_len=10 --overrepresentation_analysis --json=PE500.json --html=PE500.html --report_title=PE500 --thread=8

fastp 0.19.4, at 2018-10-07 00:13:24