MP10k

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:	149bp, 149bp
duplication rate:	70.067730%
Insert size peak:	0

Before filtering

total reads:	446.717352 M
total bases:	67.454320 G
Q20 bases:	62.581933 G (92.776761%)
Q30 bases:	57.303928 G (84.952198%)
GC content:	44.969723%

After filtering

total reads:	334.744784 M
total bases:	50.109674 G
Q20 bases:	48.660270 G (97.107537%)
Q30 bases:	45.704291 G (91.208519%)
GC content:	42.618955%

Filtering result

reads passed filters:	334.744784 M (74.934359%)
reads with low quality:	103.226866 M (23.107870%)
reads with too many N:	2.802000 K (0.000627%)
reads too short:	8.725694 M (1.953292%)
reads with low complexity:	17.206000 K (0.003852%)

Adapters

Adapter or bad ligation of read1

The input has little adapter percentage ($\sim 0.372463\%$), probably it's trimmed before.

Sequence	Occurrences
A	68599
AG	60334
AGA	68812
AGAT	59534
AGATC	

AGATCG 65	5081
AGATCGG 56	6868
AGATCGGA 57	7555
AGATCGGAA 57	7759
AGATCGGAAG 54	4905
AGATCGGAAGA 56	6033
AGATCGGAAGAG 54	4606
AGATCGGAAGAGC 51	1860
AGATCGGAAGAGCA 57	7361
AGATCGGAAGAGCAC 61	1168
AGATCGGAAGAGCACA 52	2506
AGATCGGAAGAGCACAC 51	1798
AGATCGGAAGAGCACACG 49	9885
AGATCGGAAGAGCACACGT 44	4528
AGATCGGAAGAGCACACGTC 46	6722
AGATCGGAAGAGCACACGTCT 44	4768
AGATCGGAAGAGCACACGTCTG 43	3424
AGATCGGAAGAGCACACGTCTGA 43	3889
AGATCGGAAGAGCACACGTCTGAA 43	3657
AGATCGGAAGAGCACACGTCTGAAC 43	3251
AGATCGGAAGAGCACACGTCTGAACT 41	1374
AGATCGGAAGAGCACACGTCTGAACTC 45	5168
AGATCGGAAGAGCACACGTCTGAACTCC 39	9336
AGATCGGAAGAGCACACGTCTGAACTCCA 40	0941
AGATCGGAAGAGCACACGTCTGAACTCCAG 38	8276
AGATCGGAAGAGCACACGTCTGAACTCCAGTC 42	2963
AGATCGGAAGAGCACACGTCTGAACTCCAGTCA 42	2092
AGATCGGAAGAGCACACGTCTGAACTCCAGTCAC 37	7147
AGATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGTA 49	9551
AGATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGTAA 43	3605
AGATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGTAATC 48	8912
AGATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGTAATCTCGTATGCCGTCTTCTGCTT 46	6105
AGATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGTAATCTCGTATGCCGTCTTCTGCTTGAAAA 46	6532
other adapter sequences	759669

Adapter or bad ligation of read2

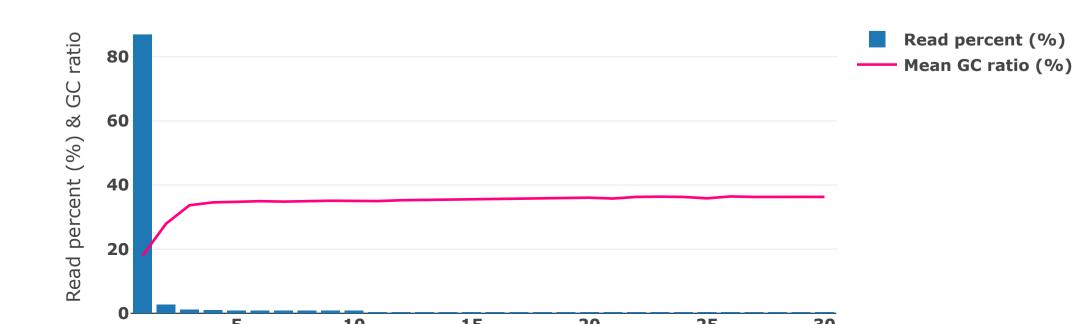
The input has little adapter percentage (~0.327220%), probably it's trimmed before.

Sequence	Occurrences
A	68470
AG	59629
AGA	66817

AGATC 78824 AGATCG 66301 AGATCGG 61251 AGATCGGA 58401 AGATCGGAA 56142 AGATCGGAAGA 56142 AGATCGGAAGA 56859 AGATCGGAAGA 56246 AGATCGGAAGAG 57525 AGATCGGAAGAGC 56216 AGATCGGAAGAGCG 63747 AGATCGGAAGAGCGT 48893 AGATCGGAAGAGCGTC 65289 AGATCGGAAGAGCGTCG 57510 AGATCGGAAGAGCGTCGT 50858 AGATCGGAAGAGCGTCGT 50858 AGATCGGAAGAGCGTCGTG 51462 AGATCGGAAGAGCGTCGTG 45625 AGATCGGAAGAGCGTCGTGTA 47062 AGATCGGAAGAGCGTCGTGTAG 118913 AGATCGGAAGAGCGTCGTGTAGG 118913 AGATCGGAAGAGCGTCGTGTAGGG 18911 AGATCGGAAGAGCGTCGTGTAGGGAAAGA 81911 AGATCGGAAGAGCGTCGTGTAGGGAAAGA 45206 AGATCGGAAGAGCGTCGTGTAGGGAAAGAG 45206 AGATCGGAAGAGCGTCGTGTAGGGAAAGAG 45206 AGATCGGAAGAGCGTCGTGTAGGGAAAGAG 45206 AGATCGGAAGAGCGTCGTGTAGGGAAAGAG <th>AGAT</th> <th>62554</th>	AGAT	62554
AGATCGG 61251 AGATCGGA 58401 AGATCGGAA 56142 AGATCGGAAG 56859 AGATCGGAAGA 61624 AGATCGGAAGAG 57525 AGATCGGAAGAGC 56216 AGATCGGAAGAGCG 63747 AGATCGGAAGAGCGT 48893 AGATCGGAAGAGCGTCG 65289 AGATCGGAAGAGCGTCGT 50858 AGATCGGAAGAGCGTCGTG 51462 AGATCGGAAGAGCGTCGTGT 45625 AGATCGGAAGAGCGTCGTGTA 57181 AGATCGGAAGAGCGTCGTGTAGG 118913 AGATCGGAAGAGCGTCGTGTAGGG 50658 AGATCGGAAGAGCGTCGTGTAGGGAA 118913 AGATCGGAAGAGCCTCGTGTAGGGAA 72040 AGATCGGAAGAGCCTCGTGTAGGGAAAGA 45206 AGATCGGAAGAGCCTCGTGTAGGGAAAGAG 79110 AGATCGGAAGAGCCTCGTGTAGGGAAAGAG 79110 AGATCGGAAGAGCCTCGTGTAGGGAAAGAGT 47063	AGATC	70824
AGATCGGA 58401 AGATCGGAA 56142 AGATCGGAAG 56859 AGATCGGAAGA 61624 AGATCGGAAGA 61624 AGATCGGAAGAG 57525 AGATCGGAAGAGC 56216 AGATCGGAAGACCG 63747 AGATCGGAAGACCGT 48893 AGATCGGAAGACCGTCG 57510 AGATCGGAAGACCGTCG 57510 AGATCGGAAGACCGTCGT 50858 AGATCGGAAGACCGTCGTG 51462 AGATCGGAAGACGTCGTGTA 45625 AGATCGGAAGACGCTCGTGTA 57181 AGATCGGAAGACCGTCGTGTAGG 118913 AGATCGGAAGACCGTCGTGTAGG 118913 AGATCGGAAGACCGTCGTGTAGGAA 72040 AGATCGGAAGACCGTCGTGTAGGGAAA 81911 AGATCGGAAGACCCTCGTGTAGGGAAAGA 45206 AGATCGGAAGACCCTCGTGTAGGGAAAGAG 79110 AGATCGGAAGACCCTCGTGTAGGGAAAGAGT 47063	AGATCG	66301
AGATCGGAA 56142 AGATCGGAAG 56859 AGATCGGAAGA 61624 AGATCGGAAGAG 57525 AGATCGGAAGAGC 56216 AGATCGGAAGAGCG 63747 AGATCGGAAGACCGT 48893 AGATCGGAAGACCGTC 65289 AGATCGGAAGACCGTCG 57510 AGATCGGAAGACCGTCGT 50858 AGATCGGAAGACCGTCGTG 51462 AGATCGGAAGACCGTCGTGT 45625 AGATCGGAAGACCGTCGTGTA 57181 AGATCGGAAGACCGTCGTGTAG 118913 AGATCGGAAGACCGTCGTGTAGG 18913 AGATCGGAAGACCGTCGTGTAGGGA 72040 AGATCGGAAGACCGTCGTGTAGGGAA 81911 AGATCGGAAGACCGTCGTGTAGGGAAAAAA 45206 AGATCGGAAGACCGTCGTGTAGGGAAAAAAAAAAAAAAA	AGATCGG	61251
AGATCGGAAG 56859 AGATCGGAAGA 61624 AGATCGGAAGAG 57525 AGATCGGAAGAGC 56216 AGATCGGAAGAGCG 63747 AGATCGGAAGACCGT 48893 AGATCGGAAGACCGTC 65289 AGATCGGAAGACCGTCG 57510 AGATCGGAAGACCGTCGT 50858 AGATCGGAAGACCGTCGTG 51462 AGATCGGAAGACCGTCGTGT 45625 AGATCGGAAGACGTCGTGTAG 141021 AGATCGGAAGACGCTCGTGTAGG 118913 AGATCGGAAGACGCTCGTGTAGGGA 72040 AGATCGGAAGACCGTCGTGTAGGGAAA 81911 AGATCGGAAGACCTCTGTGTAGGGAAAGAG 45206 AGATCGGAAGACCGTCGTTCTGGGGAAAGAGA 45206 AGATCGGAAGACCGTCGTTCTGGGGAAAGAGA 47063	AGATCGGA	58401
AGATCGGAAGA 61624 AGATCGGAAGAGG 57525 AGATCGGAAGAGC 56216 AGATCGGAAGAGCG 63747 AGATCGGAAGAGCGT 48893 AGATCGGAAGAGCGTC 65289 AGATCGGAAGAGCGTCG 57510 AGATCGGAAGAGCGTCGT 50858 AGATCGGAAGAGCGTCGTG 51462 AGATCGGAAGAGCGTCGTGT 45625 AGATCGGAAGAGCGTCGTGTA 57181 AGATCGGAAGAGCGTCGTGTAG 141021 AGATCGGAAGAGCGTCGTGTAGG 118913 AGATCGGAAGAGCGTCGTGTAGGG 50658 AGATCGGAAGAGCGTCGTGTAGGGAA 72040 AGATCGGAAGAGCGTCGTGTAGGGAAAA 81911 AGATCGGAAGAGCGTCGTGTAGGGAAAGA 45206 AGATCGGAAGAGCGTCGTGTAGGGAAAGAG 79110 AGATCGGAAGAGCGTCGTGTAGGGAAAGAGT 47063	AGATCGGAA	56142
AGATCGGAAGAG 57525 AGATCGGAAGAGCC 56216 AGATCGGAAGAGCG 63747 AGATCGGAAGAGCGT 48893 AGATCGGAAGAGCGTC 65289 AGATCGGAAGAGCGTCG 57510 AGATCGGAAGAGCGTCGT 50858 AGATCGGAAGAGCGTCGTG 51462 AGATCGGAAGAGCGTCGTGT 45625 AGATCGGAAGAGCGTCGTGTA 57181 AGATCGGAAGAGCGTCGTGTAG 141021 AGATCGGAAGAGCGTCGTGTAGG 118913 AGATCGGAAGAGCGTCGTGTAGGGG 50658 AGATCGGAAGAGCGTCGTGTAGGGA 72040 AGATCGGAAGAGCGTCGTGTAGGGAAAGA 81911 AGATCGGAAGAGCGTCGTGTAGGGAAAGAGA 45206 AGATCGGAAGAGCGTCGTGTAGGGAAAGAGA 45206 AGATCGGAAGAGCGTCGTGTAGGGAAAGAGA 79110 AGATCGGAAGAGCGTCGTGTAGGGAAAGAGT 47063	AGATCGGAAG	56859
AGATCGGAAGAGC 56216 AGATCGGAAGAGCG 63747 AGATCGGAAGAGCGT 48893 AGATCGGAAGAGCGTC 65289 AGATCGGAAGAGCGTCG 57510 AGATCGGAAGAGCGTCGT 50858 AGATCGGAAGAGCGTCGTG 51462 AGATCGGAAGAGCGTCGTGT 45625 AGATCGGAAGAGCGTCGTGTA 57181 AGATCGGAAGAGCGTCGTGTAG 141021 AGATCGGAAGAGCGTCGTGTAGG 118913 AGATCGGAAGAGCGTCGTGTAGGG 50658 AGATCGGAAGAGCGTCGTGTAGGGA 72040 AGATCGGAAGAGCGTCGTGTAGGGAAA 81911 AGATCGGAAGAGCGTCGTGTAGGGAAAGA 45206 AGATCGGAAGAGCGTCGTGTAGGGAAAGAG 45206 AGATCGGAAGAGCGTCGTGTAGGGAAAGAG 79110 AGATCGGAAGAGCGTCGTGTAGGGAAAGAGT 47063	AGATCGGAAGA	61624
AGATCGGAAGAGCG 63747 AGATCGGAAGAGCGT 48893 AGATCGGAAGAGCGTC 65289 AGATCGGAAGAGCGTCG 57510 AGATCGGAAGAGCGTCGT 50858 AGATCGGAAGAGCGTCGTG 51462 AGATCGGAAGAGCGTCGTGT 45625 AGATCGGAAGACGTCGTGTA 57181 AGATCGGAAGACGTCGTGTAG 141021 AGATCGGAAGACGCTCGTGTAGG 118913 AGATCGGAAGAGCGTCGTGTAGGGG 50658 AGATCGGAAGAGCCTCGTGTAGGGAA 72040 AGATCGGAAGAGCCTCGTGTAGGGAAA 81911 AGATCGGAAGAGCCTCGTGTAGGGAAAGA 45206 AGATCGGAAGAGCGTCGTGTAGGGAAAGAG 79110 AGATCGGAAGACCGTCGTGTAGGGAAAGAGT 47063	AGATCGGAAGAG	57525
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AGATCGGAAGAGCGTCG 57510 AGATCGGAAGAGCGTCGT 50858 AGATCGGAAGAGCGTCGTG 51462 AGATCGGAAGAGCGTCGTGT 45625 AGATCGGAAGAGCGTCGTGTA 57181 AGATCGGAAGAGCGTCGTGTAG 141021 AGATCGGAAGAGCGTCGTGTAGG 118913 AGATCGGAAGAGCGTCGTGTAGGG 50658 AGATCGGAAGAGCGTCGTGTAGGGA 72040 AGATCGGAAGAGCGTCGTGTAGGGAAA 81911 AGATCGGAAGAGCGTCGTGTGAGGGAAAGA 45206 AGATCGGAAGAGCGTCGTGTAGGGAAAGAG 79110 AGATCGGAAGAGCGTCGTGTAGGGAAAGAGAT 47063	AGATCGGAAGAGCGT	48893
AGATCGGAAGAGCGTCGT 50858 AGATCGGAAGAGCGTCGTG 51462 AGATCGGAAGAGCGTCGTGT 45625 AGATCGGAAGAGCGTCGTGTA 57181 AGATCGGAAGAGCGTCGTGTAG 141021 AGATCGGAAGAGCGTCGTGTAGG 118913 AGATCGGAAGAGCGTCGTGTAGGG 50658 AGATCGGAAGAGCGTCGTGTAGGGA 72040 AGATCGGAAGAGCGTCGTGTAGGGAAA 81911 AGATCGGAAGAGCGTCGTGTAGGGAAAGA 45206 AGATCGGAAGAGCGTCGTGTAGGGAAAGAG 79110 AGATCGGAAGAGCGTCGTGTAGGGAAAGAGT 47063	AGATCGGAAGAGCGTC	65289
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AGATCGGAAGAGCGTCGTGTAGGG AGATCGGAAGAGCGTCGTGTAGGG 50658 AGATCGGAAGAGCGTCGTGTAGGGA 72040 AGATCGGAAGAGCGTCGTGTAGGGAAA 81911 AGATCGGAAGAGCGTCGTGTAGGGAAAGA 45206 AGATCGGAAGAGCGTCGTGTAGGGAAAGAG AGATCGGAAGAGCGTCGTGTAGGGAAAGAG 47063	AGATCGGAAGAGCGTCGTGTA	57181
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AGATCGGAAGAGCGTCGTGTAGGGAA AGATCGGAAGAGCGTCGTGTAGGGAAA AGATCGGAAGAGCGTCGTGTAGGGAAAGA AGATCGGAAGAGCGTCGTGTAGGGAAAGA AGATCGGAAGAGCGTCGTGTAGGGAAAGAG AGATCGGAAGAGCGTCGTGTAGGGAAAGAG AGATCGGAAGAGCGTCGTGTAGGGAAAGAG AGATCGGAAGAGCGTCGTGTAGGGAAAGAG AGATCGGAAGAGCGTCGTGTAGGGAAAGAGT AGATCGGAAGAGCGTCGTGTAGGGAAAGAGT AGATCGGAAGAGCGTCGTGTAGGGAAAGAGT	AGATCGGAAGAGCGTCGTGTAGG	118913
AGATCGGAAGAGCGTCGTGTAGGGAAAGA 81911 AGATCGGAAGAGCGTCGTGTAGGGAAAGA 45206 AGATCGGAAGAGCGTCGTGTAGGGAAAGAG 79110 AGATCGGAAGAGCGTCGTGTAGGGAAAGAGT 47063	AGATCGGAAGAGCGTCGTGTAGGG	50658
AGATCGGAAGAGCGTCGTGTAGGGAAAGAG AGATCGGAAGAGCGTCGTGTAGGGAAAGAG AGATCGGAAGAGCGTCGTGTAGGGAAAGAG AGATCGGAAGAGCGTCGTGTAGGGAAAGAGT 45206 79110 47063	AGATCGGAAGAGCGTCGTGTAGGGA	72040
AGATCGGAAGAGCGTCGTGTAGGGAAAGAG AGATCGGAAGAGCGTCGTGTAGGGAAAGAGT 79110 47063	AGATCGGAAGAGCGTCGTGTAGGGAAA	81911
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGT 47063	AGATCGGAAGAGCGTCGTGTAGGGAAAGA	45206
	AGATCGGAAGAGCGTCGTGTAGGGAAAGAG	79110
other adapter sequences 1894156	AGATCGGAAGAGCGTCGTGTAGGGAAAGAGT	47063
	other adapter sequences	1894156

Duplication

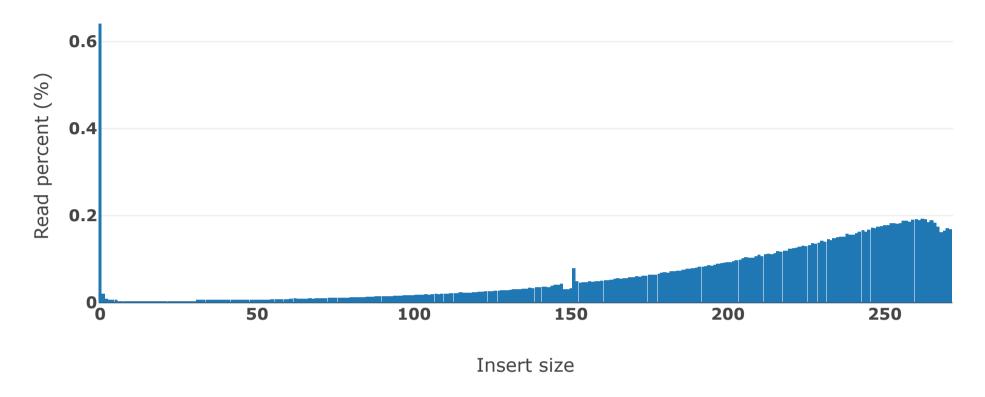
duplication rate (70.067730%)



duplication level

Insert size estimation

Insert size distribution (83.467602% reads are with unknown length)

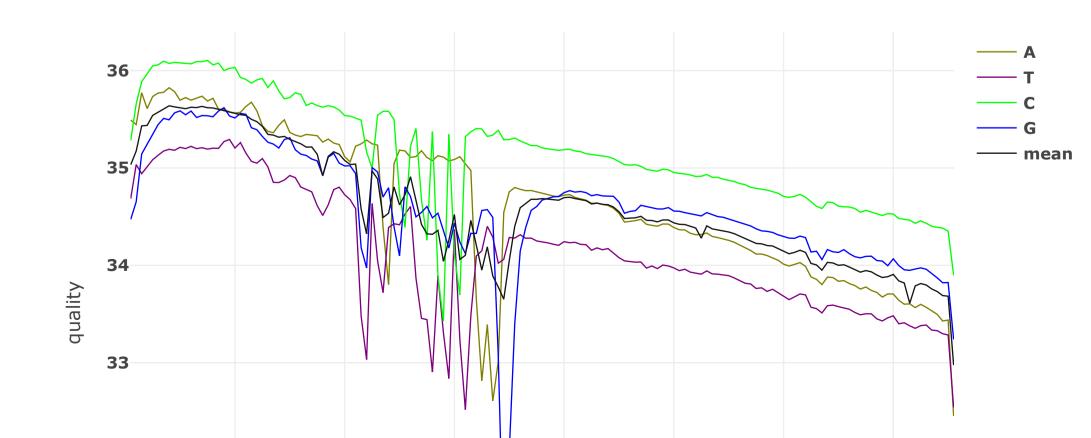


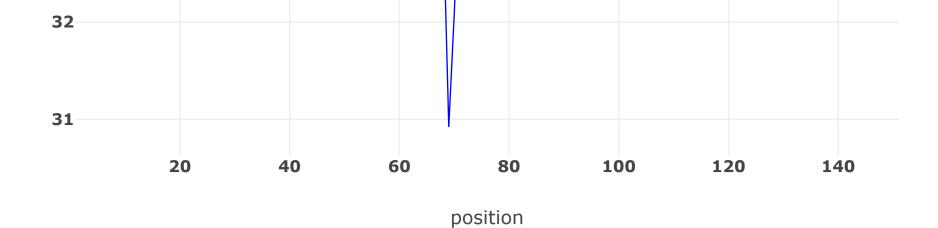
This estimation is based on paired—end overlap analysis, and there are 83.467602% reads found not overlapped.

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

Before filtering

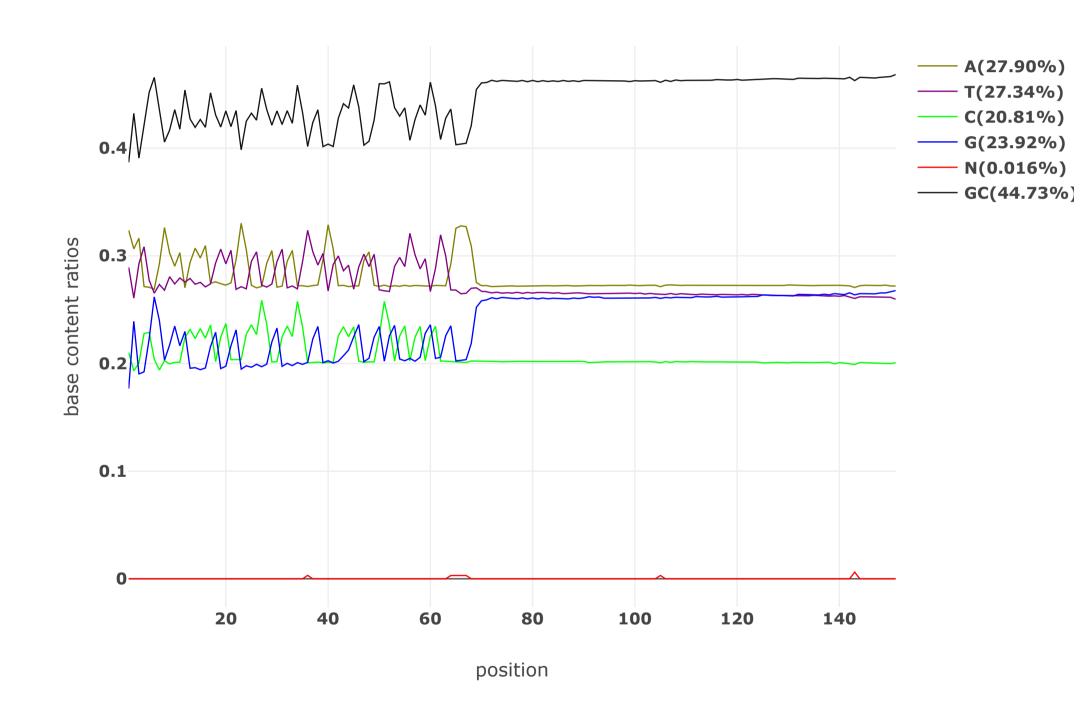
Before filtering: read1: quality





Before filtering: read1: base contents

Value of each position will be shown on mouse over.



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	CT	CC	CG	GA	GT	GC	GG
AAA	AAAAA	AAAAT	AAAAC	AAAAG	AAATA	AAATT	AAATC	AAATG	AAACA	AAACT	AAACC	AAACG	AAAGA	AAAGT	AAAGC	AAAGG
AAT	AATAA	AATAT	AATAC	AATAG	AATTA	AATTT	AATTC	AATTG	AATCA	AATCT	AATCC	AATCG	AATGA	AATGT	AATGC	AATGG
AAC	AACAA	AACAT	AACAC	AACAG	AACTA	AACTT	AACTC	AACTG	AACCA	AACCT	AACCC	AACCG	AACGA	AACGT	AACGC	AACGG
AAG	AAGAA	AAGAT	AAGAC	AAGAG	AAGTA	AAGTT	AAGTC	AAGTG	AAGCA	AAGCT	AAGCC	AAGCG	AAGGA	AAGGT	AAGGC	AAGGG
ATA	ATAAA	ATAAT	ATAAC	ATAAG	ATATA	ATATT	ATATC	ATATG	ATACA	ATACT	ATACC	ATACG	ATAGA	ATAGT	ATAGC	ATAGG
ATT	ATTAA	ATTAT	ATTAC	ATTAG	ATTTA	ATTTT	ATTTC	ATTTG	ATTCA	ATTCT	ATTCC	ATTCG	ATTGA	ATTGT	ATTGC	ATTGG
ATC	ATCAA	ATCAT	ATCAC	ATCAG	ATCTA	ATCTT	ATCTC	ATCTG	ATCCA	ATCCT	ATCCC	ATCCG	ATCGA	ATCGT	ATCGC	ATCGG
ATG	ATGAA	ATGAT	ATGAC	ATGAG	ATGTA	ATGTT	ATGTC	ATGTG	ATGCA	ATGCT	ATGCC	ATGCG	ATGGA	ATGGT	ATGGC	ATGGG
ACA	ACAAA	ACAAT	ACAAC	ACAAG	ACATA	ACATT	ACATC	ACATG	ACACA	ACACT	ACACC	ACACG	ACAGA	ACAGT	ACAGC	ACAGG
ACT	ACTAA	ACTAT	ACTAC	ACTAG	ACTTA	ACTTT	ACTTC	ACTTG	ACTCA	ACTCT	ACTCC	ACTCG	ACTGA	ACTGT	ACTGC	ACTGG
ACC	ACCAA	ACCAT	ACCAC	ACCAG	ACCTA	ACCTT	ACCTC	ACCTG	ACCCA	ACCCT	ACCCC	ACCCG	ACCGA	ACCGT	ACCGC	ACCGG
ACG	ACGAA	ACGAT	ACGAC	ACGAG	ACGTA	ACGTT	ACGTC	ACGTG	ACGCA	ACGCT	ACGCC	ACGCG	ACGGA	ACGGT	ACGGC	ACGGG

AGA	AGAAA	AGAAT	AGAAC	AGAAG	AGATA	AGATT	AGATC	AGATG	AGACA	AGACT	AGACC	AGACG	AGAGA	AGAGT	AGAGC	AGAGG
AGT	AGTAA	AGTAT	AGTAC	AGTAG	AGTTA	AGTTT	AGTTC	AGTTG	AGTCA	AGTCT	AGTCC	AGTCG	AGTGA	AGTGT	AGTGC	AGTGG
AGC	AGCAA	AGCAT	AGCAC	AGCAG	AGCTA	AGCTT	AGCTC	AGCTG	AGCCA	AGCCT	AGCCC	AGCCG	AGCGA	AGCGT	AGCGC	AGCGG
AGG	AGGAA	AGGAT	AGGAC	AGGAG	AGGTA	AGGTT	AGGTC	AGGTG	AGGCA	AGGCT	AGGCC	AGGCG	AGGGA	AGGGT	AGGGC	AGGGG
TAA	TAAAA	TAAAT	TAAAC	TAAAG	TAATA	TAATT	TAATC	TAATG	TAACA	TAACT	TAACC	TAACG	TAAGA	TAAGT	TAAGC	TAAGG
TAT	TATAA	TATAT	TATAC	TATAG	TATTA	TATTT	TATTC	TATTG	TATCA	TATCT	TATCC	TATCG	TATGA	TATGT	TATGC	TATGG
TAC	TACAA	TACAT	TACAC	TACAG	TACTA	TACTT	TACTC	TACTG	TACCA	TACCT	TACCC	TACCG	TACGA	TACGT	TACGC	TACGG
TAG	TAGAA	TAGAT	TAGAC	TAGAG	TAGTA	TAGTT	TAGTC	TAGTG	TAGCA	TAGCT	TAGCC	TAGCG	TAGGA	TAGGT	TAGGC	TAGGG
TTA	TTAAA	TTAAT	TTAAC	TTAAG	TTATA	TTATT	TTATC	TTATG	TTACA	TTACT	TTACC	TTACG	TTAGA	TTAGT	TTAGC	TTAGG
TTT	TTTAA	TTTAT	TTTAC	TTTAG	TTTTA	TTTTT	TTTTC	TTTTG	TTTCA	TTTCT	TTTCC	TTTCG	TTTGA	TTTGT	TTTGC	TTTGG
TTC	TTCAA	TTCAT	TTCAC	TTCAG	TTCTA	TTCTT	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	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	СТСТС	CTCTG	CTCCA	CTCCT	CTCCC	CTCCG	CTCGA	CTCGT	CTCGC	CTCGG
CTG	CTGAA	CTGAT	CTGAC	CTGAG	CTGTA	CTGTT	CTGTC	CTGTG	CTGCA	CTGCT	CTGCC	CTGCG	CTGGA	CTGGT	CTGGC	CTGGG
CCA	CCAAA	CCAAT	CCAAC	CCAAG	CCATA	CCATT	CCATC	CCATG	CCACA	CCACT	CCACC	CCACG	CCAGA	CCAGT	CCAGC	CCAGG
CCT	CCTAA	CCTAT	CCTAC	CCTAG	CCTTA	CCTTT	CCTTC	CCTTG	CCTCA	CCTCT	CCTCC	CCTCG	CCTGA	CCTGT	CCTGC	CCTGG
CCC	CCCAA	CCCAT	CCCAC	CCCAG	CCCTA	CCCTT	CCCTC	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
	GCAAA		GCAAC											GCAGT		
GCA	GCAAA	GCTAT	GCTAC		GCTTA	GCTTT	GCTTC	GCTTG	GCTCA	GCACT	GCACC	GCACG	GCAGA	GCAGT	GCAGC	
GCC	GCCAA	GCCAT	GCCAC	GCCAG	GCCTA	GCTT	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	GGGTT	GGATC	GGATG	GGACA	GGACT	GGACC	GGACG	GGGGA	GGAGT	GGAGC	GGAGG
GGA	GGTAA	GGTAT		GGAAG	GGTTA	GGTTT				GGTCT					GGAGC	GGAGG
GGC	GGCAA	GGCAT	GGTAC GGCAC	GGCAG	GGCTA	GGCTT	GGTTC GGCTC	GGTTG GGCTG	GGTCA GGCCA	GGCCT	GGTCC GGCCC	GGTCG GGCCG	GGTGA GGCGA	GGTGT GGCGT	GGCGC	GGCGG
GGG	GGGAA	GGGAT	GGGAC	GGGAG	GGGTA	GGGTT	GGGTC	GGGTG	GGGCA	GGGCT	GGGCC	GGGCG	GGGGA	GGGGT	GGGGC	GGGGG
300	- OOOAA	- OOOAT	T GOOKE	T OOOAO		- 00011	0001C	-00010	I GOOCH	-00001	- 00000	-00000	UUUUA	00001	1 00000	00000

Before filtering: read1: overrepresented sequences

overrepresented sequence	count (% of bases)	distribution: cycle 1 ~ cycle 151
AAAGATGTGTATAAGAGACA	86282 (0.102329%)	
AAGATGTGTATAAGAGACAG	149980 (0.177874%)	
AAGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	17427 (0.041336%)	
ACACACACACACACACACACACACACACACACACACA	2326 (0.005517%)	
AC	58007 (0.137591%)	
AC	1568 (0.003719%)	
ACACACACACACACACACCTGTCTCTTATACACATC	15516 (0.036804%)	
ACACACACACCTGTCTCTTATACACATCTAGATGTGTA	11379 (0.026991%)	
ACACACACCTGTCTCTTATACACATCTAGATGTGTATA	1309 (0.003105%)	
ACACACCTGTCTCTTATACACATCTAGATGTGTATAAG	1667 (0.003954%)	
ACACACCTGTCTCTTATACACATCTAGATGTGTATAAGAG	3488 (0.008273%)	
ACACATCTAGATGTGTATAAGAGACAGCACACACACAC	157 (0.000372%)	
ACACATCTAGATGTGTATAAGAGACAGGTGTGTGTGTG	157 (0.000372%)	
ACACCTGTCTCTTATACACATCTAGATGTGTATAAGAGAC	21275 (0.050464%)	

ACAGATGTGTATAAGAGACA	98384 (0.116682%)	
ACATCTAGATGTGTATAAGAGACAGGTGTGTGTGTGTG	199 (0.000472%)	
ACCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	27626 (0.065528%)	
ACCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	31832 (0.075505%)	
ACTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGC	15738 (0.037330%)	
ACTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGG	23027 (0.054619%)	
AG	12233 (0.029016%)	
AGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	261 (0.001548%)	
AGATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGTAATCGCGTATGCCGTCTTCGGCTTGAAAAGGGGGGGG	4095 (0.036182%)	
AGATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGTAATCGCGTATGCCGTCTTCTGCTTGAAAAGGG GGGGGGGGGG	34267 (0.302770%)	
AGATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGTAATCTCGTATGCCGTCTTCGGCTTGAAAAGGG GGGGGGGGGG	9238 (0.081623%)	
AGATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGTAATCTCGTATGCCGTCTTCTGCGTGAAAAGGG GGGGGGGGGG	7055 (0.062335%)	
AGATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGTAATCTCGTATGCCGTCTTCTGCTTGAAAAGGG GGGGGGGGGG	129027 (1.140032%)	
AGATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGTAATCTCGTATGCCGTCTTCTGCTTGAAAATGG GGGGGGGGGG	13776 (0.121719%)	
AGATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGTAATCTCGTATGCCGTCTTCTGCTTGTAAAGGG GGGGGGGGGG	7570 (0.066886%)	
AGATGTGTATAAGAGACACACACACACACACACACACAC	18099 (0.042930%)	
AGATGTGTATAAGAGACAGGTGTGTGTGTGTGTGTGTG	16003 (0.037959%)	
AGCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	28786 (0.068280%)	
AGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	30967 (0.073453%)	
AGGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	29079 (0.068975%)	
ANATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGTAATCTCGTATGCCGTCTTCTGCTTGAAAAGGGGGGGG	74 (0.000654%)	
ATAAGAGACAGGTGTGTGTGTGTGTGTGTGTGTGTG	72 (0.000171%)	
ATACACATCTAGATGTGTATAAGAGACAGCACACACAC	199 (0.000472%)	
ATACACATCTAGATGTGTATAAGAGACAGGTGTGTGTG	151 (0.000358%)	
ATCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	20309 (0.048172%)	
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ATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGTAATCGCGTATGCCGTCTTCTGCTTGAAAATGGGG GGGGGGGGGG	14 (0.000124%)	
ATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGTAATCTCGTATGCCGTCTTCGGCTTGAAAAAGGGG GGGGGGGGGG	10 (0.000088%)	
ATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGTAATCTCGTATGCCGTCTTCTGCGTGAAAAGGGGG GGGGGGGGGG	24 (0.000212%)	
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GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	123 (0.001087%)	
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ATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGTAATCTCGTATGCCGTCTTCTGCTTGAAAATGGGG GGGGGGGGGG	78 (0.000689%)	
ATCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	38484 (0.091283%)	
ATGCCGTCGTCTGAAAAGGGGGGGGGGGGGGGGGGGGGG	244 (0.001447%)	
ATGCCGTCTTCGGCGTGAAAAGGGGGGGGGGGGGGGGGG	166 (0.000984%)	
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ATGTGTATAAGAGACACACACACACACACACACACACACA	208 (0.000493%)	
ATGTGTATAAGAGACAGGTGTGTGTGTGTGTGTGTGTG	138 (0.000327%)	
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CAAGATGTGTATAAGAGACA	112826 (0.133810%)	
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CACACACACACACACACACACACACACACACACACA	20429 (0.048457%)	
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CACACACACCTGTCTCTTATACACATCTAGATGTGTAT	1449 (0.003437%)	
CACACACCTGTCTCTTATACACATCTAGATGTGTATAA	1300 (0.003084%)	
CACACACCTGTCTCTTATACACATCTAGATGTGTATAAGA	2705 (0.006416%)	
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CACCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	22230 (0.052729%)	
CAGATGTGTATAAGAGACAG	118433 (0.140460%)	
CATCTAGATGTGTATAAGAGACAGGTGTGTGTGTGTGT	180 (0.000427%)	
CCAGATGTGTATAAGAGACA	108700 (0.128917%)	
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CCGTCTTCGGCGTGAAAAGGGGGGGGGGGGGGGGGGGGG	62 (0.000368%)	
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CCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGC	1856 (0.004402%)	
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CCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGT	421 (0.000999%)	
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CGTCTTCGGCTTGAAAAGGGGGGGGGGGGGGGGGGGGGG	8733 (0.051786%)	
CGTCTTCTGCTTGTAAAGGGGGGGGGGGGGGGGGGGGGG	6466 (0.038343%)	
CTCACACACACACACACACACACACACACACACACACA	13926 (0.033032%)	
стстстстстстстстстстстстстстстст	5915 (0.014030%)	
CTCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	23047 (0.054667%)	
CTCTTATACACATCTAGATGTGTATAAGAGACAGCACACA	81 (0.000192%)	
CTCTTATACACATCTAGATGTGTATAAGAGACAGGTGTGT	63 (0.000149%)	
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CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGA	350 (0.000830%)	
CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGC	343 (0.000814%)	
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CTGTCTCTTATACACATCTC	388845 (0.461165%)	
CTGTCTCTTATACACATCTG	331290 (0.392906%)	
CTGTCTCTTATACACATCTT	344261 (0.408289%)	
CTTATACACATCTAGATGTGTATAAGAGACAGCACACAC	83 (0.000197%)	
CTTATACACATCTAGATGTGTATAAGAGACAGGTGTGTGT	41 (0.000097%)	
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GACTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	27175 (0.064458%)	
GA	11165 (0.026483%)	
GAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA	228 (0.001352%)	
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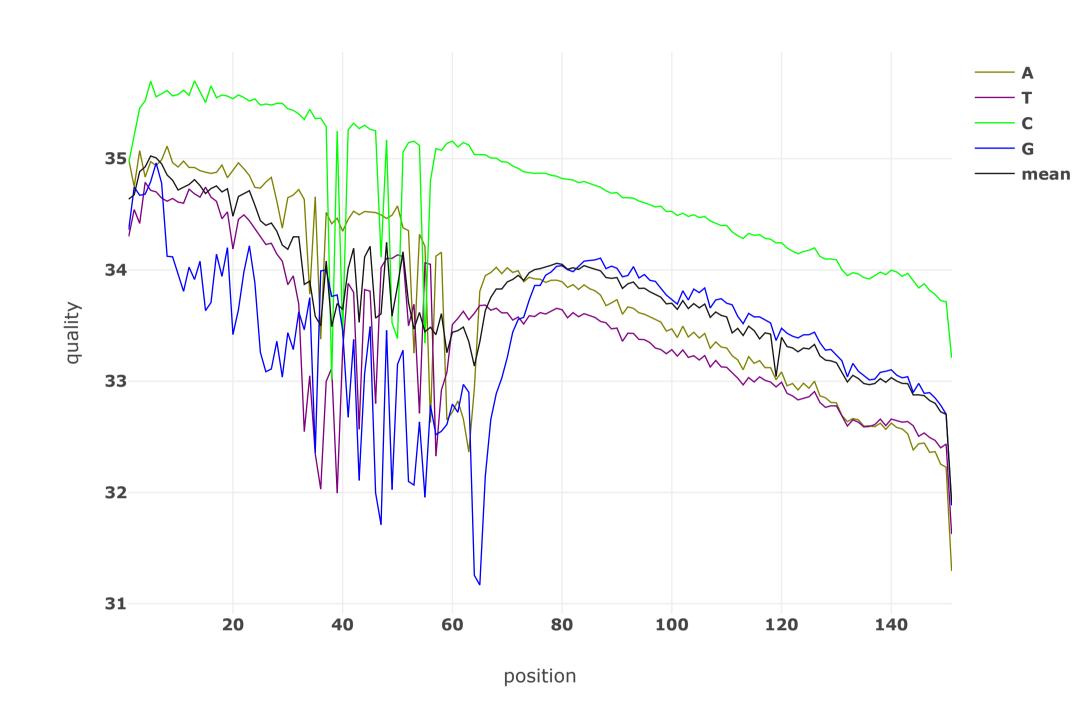
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GATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGTAATCTCGTATGCCGTCTTCTGCTTGAAAAGGGG GGGGGGGGGG	65436 (0.578167%)	
GATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGTAATCTCGTATGCCGTCTTCTGCTTGAAAATGGG GGGGGGGGGG	17067 (0.150797%)	
GATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGTAATCTCGTATGCCGTCTTCTGCTTGTAAAGGGG GGGGGGGGGG	4211 (0.037207%)	
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GATGTGTATAAGAGACAGGTGTGTGTGTGTGTGTGTGT	142 (0.000337%)	
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GCCGTCTTCGGCGTGAAAAGGGGGGGGGGGGGGGGGGGG	11 (0.000065%)	
GCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	7907 (0.018755%)	
GCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGA	2749 (0.006521%)	
GCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGC	5701 (0.013523%)	
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GGGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	25376 (0.060191%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1185805 (2.812700%)	
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сстссоссоссоссоссоссоссоссоссоссоссоссос	28075 (0.066593%)	
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GTGTGTGTGTCTCTTATACACATCTAGATGTGTATAA	3503 (0.008309%)	
GTGTGTGTGTGTCTCTTATACACATCTAGATGTGTAT	2425 (0.005752%)	
GTGTGTGTGTGTGTGTGTCTCTTATACACATCT	1545 (0.003665%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGA	1060 (0.002514%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	27027 (0.064107%)	
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TACACATCTAGATGTGTATAAGAGACAGGTGTGTGTGT	128 (0.000304%)	
TACCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	37765 (0.089578%)	
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TATCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	18576 (0.044062%)	
TCACACACACACACACACACACACACACACACACACACA	6531 (0.015491%)	
TCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	42264 (0.100249%)	
тстстстстстстстстстстстстстстстс	8042 (0.019075%)	
TCTCTTATACACATCTAGATGTGTATAAGAGACAGCACAC	81 (0.000192%)	
TCTCTTATACACATCTAGATGTGTATAAGAGACAGGTGTG	61 (0.000145%)	
TCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGA	2930 (0.006950%)	
TCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGC	5939 (0.014087%)	
TCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGG	9041 (0.021445%)	
TCTTATACACATCTAGATGTGTATAAGAGACAGCACACC	35 (0.000083%)	
TCTTATACACATCTAGATGTGTATAAGAGACAGGTGTGTG	31 (0.000074%)	
TGAGATGTGTATAAGAGACA	141907 (0.168300%)	
TGCCGTCGTCTGCTTGAAAAGGGGGGGGGGGGGGGGGGG	175 (0.001038%)	
TGCCGTCTTCGGCGTGAAAAGGGGGGGGGGGGGGGGGGG	105 (0.000623%)	
TGCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	25426 (0.060310%)	
TGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	31303 (0.074250%)	
TGTATAAGAGACAGGTGTGTGTGTGTGTGTGTGT	47 (0.000111%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCAC	293 (0.000695%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCAT	122 (0.000289%)	

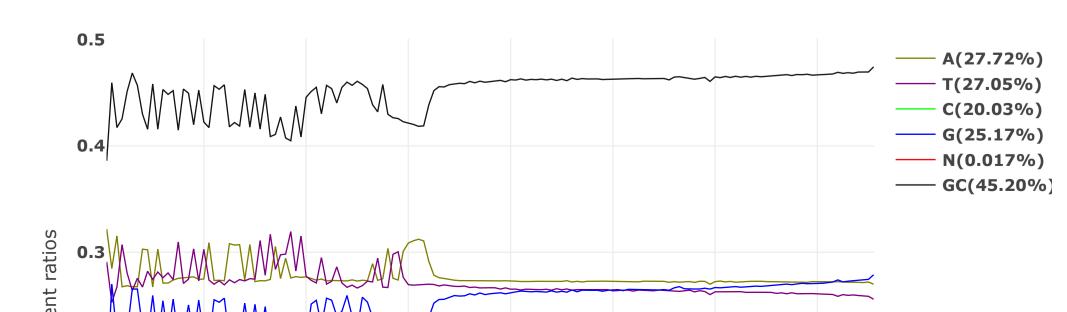
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCCC	81 (0.000192%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCCT	88 (0.000209%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCTC	95 (0.000225%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCTG	64 (0.000152%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCTT	56 (0.000133%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGAA	68 (0.000161%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGAG	86 (0.000204%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGAT	79 (0.000187%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGCA	62 (0.000147%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGCT	95 (0.000225%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGGG	101 (0.000240%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGGT	88 (0.000209%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGTA	137 (0.000325%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGTC	78 (0.000185%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGTG	261 (0.000619%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGTT	99 (0.000235%)	
TGTCTCTTATACACATCTCA	891 (0.001057%)	
TGTCTCTTATACACATCTCT	623 (0.000739%)	
TGTCTCTTATACACATCTTG	655 (0.000777%)	
TGTCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	17648 (0.041861%)	
TGTGCTGTCTCTTATACACATCTAGATGTGTATAAGAGAC	11772 (0.027923%)	
TGTGTATAAGAGACACACACACACACACACACACACACAC	36 (0.000085%)	
TGTGTATAAGAGACAGGTGTGTGTGTGTGTGTGTGTGT	49 (0.000116%)	
TGTGTGCTGTCTCTTATACACATCTAGATGTGTATAAGAG	4414 (0.010470%)	
TGTGTGTGTCTCTTATACACATCTAGATGTGTATAAG	2093 (0.004965%)	
TGTGTGTGTGTCTCTTATACACATCTAGATGTGTATA	3993 (0.009471%)	
TGTGTGTGTGTCTCTTATACACATCTAGATGTGTA	13161 (0.031218%)	
TGTGTGTGTGTGTGTGTGTCTCTTATACACATC	16029 (0.038020%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	39916 (0.094680%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTTGTT	1082 (0.002566%)	
TTATACACATCTAGATGTGTATAAGAGACAGCACACAC	70 (0.000166%)	
TTATACACATCTAGATGTGTATAAGAGACAGGTGTGTGTG	36 (0.000085%)	
TTCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	20890 (0.049551%)	

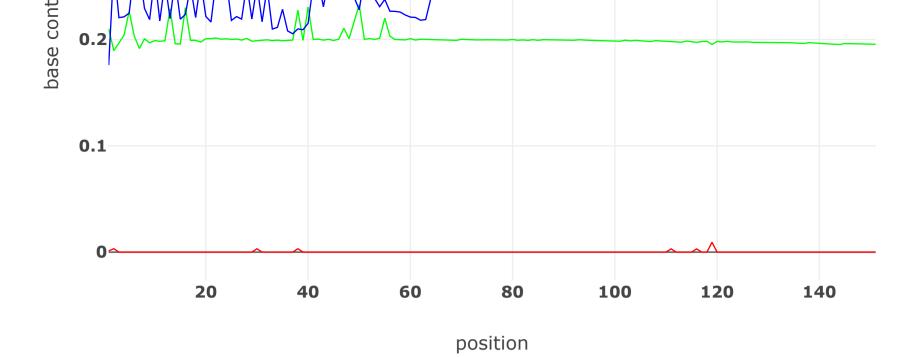
Before filtering: read2: quality

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	AA AAAAA	AT AAAAT	AC AAAAC	AG AAAAG	TA AAATA	AAATT	TC AAATC	TG AAATG	CA AAACA	CT AAACT	CC AAACC	CG AAACG	GA AAAGA	GT AAAGT	GC AAAGC	G AA
AT	AATAA	AATAT	AATAC	AATAG	AATTA	AATTT	AATTC	AATTG	AATCA	AATCT	AATCC	AATCG	AATGA	AATGT	AATGC	AAT
AC	AACAA	AACAT	AACAC	AACAG	AACTA	AACTT	AACTC	AACTG	AACCA	AACCT	AACCC	AACCG	AACGA	AACGT	AACGC	AA
١G	AAGAA	AAGAT	AAGAC	AAGAG	AAGTA	AAGTT	AAGTC	AAGTG	AAGCA	AAGCT	AAGCC	AAGCG	AAGGA	AAGGT	AAGGC	AA
Α	ATAAA	ATAAT	ATAAC	ATAAG	ATATA	ATATT	ATATC	ATATG	ATACA	ATACT	ATACC	ATACG	ATAGA	ATAGT	ATAGC	AT
Т	ATTAA	ATTAT	ATTAC	ATTAG	ATTTA	ATTTT	ATTTC	ATTTG	ATTCA	ATTCT	ATTCC	ATTCG	ATTGA	ATTGT	ATTGC	AT
C	ATCAA	ATCAT	ATCAC	ATCAG	ATCTA	ATCTT	ATCTC	ATCTG	ATCCA	ATCCT	ATCCC	ATCCG	ATCGA	ATCGT	ATCGC	AT
G	ATGAA	ATGAT	ATGAC	ATGAG	ATGTA	ATGTT	ATGTC	ATGTG	ATGCA	ATGCT	ATGCC	ATGCG	ATGGA	ATGGT	ATGGC	AT
A.	ACAAA	ACAAT	ACAAC	ACAAG	ACATA	ACATT	ACATC	ACATG	ACACA	ACACT	ACACC	ACACG	ACAGA	ACAGT	ACAGC	AC
T.	ACTAA	ACTAT	ACTAC	ACTAG	ACTTA	ACTTT	ACTTC	ACTTG	ACTCA	ACTCT	ACTCC	ACTCG	ACTGA	ACTGT	ACTGC	AC
C	ACCAA	ACCAT	ACCAC	ACCAG	ACCTA	ACCTT	ACCTC	ACCTG	ACCCA	ACCCT	ACCCC	ACCCG	ACCGA	ACCGT	ACCGC	AC
G	ACGAA	ACGAT	ACGAC	ACGAG	ACGTA	ACGTT	ACGTC	ACGTG	ACGCA	ACGCT	ACGCC	ACGCG	ACGGA	ACGGT	ACGGC	AC
iΑ	AGAAA	AGAAT	AGAAC	AGAAG	AGATA	AGATT	AGATC	AGATG	AGACA	AGACT	AGACC	AGACG	AGAGA	AGAGT	AGAGC	AC
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C	AGCAA	AGCAT	AGCAC	AGCAG	AGCTA	AGCTT	AGCTC	AGCTG	AGCCA	AGCCT	AGCCC	AGCCG	AGCGA	AGCGT	AGCGC	AC
G	AGGAA	AGGAT	AGGAC	AGGAG	AGGTA	AGGTT	AGGTC	AGGTG	AGGCA	AGGCT	AGGCC	AGGCG	AGGGA	AGGGT	AGGGC	AG
AA	TAAAA	TAAAT	TAAAC	TAAAG	TAATA	TAATT	TAATC	TAATG	TAACA	TAACT	TAACC	TAACG	TAAGA	TAAGT	TAAGC	TA
T	TATAA	TATAT	TATAC	TATAG	TATTA	TATTT	TATTC	TATTG	TATCA	TATCT	TATCC	TATCG	TATGA	TATGT	TATGC	TA
C	TACAA	TACAT	TACAC	TACAG	TACTA	TACTT	TACTO	TACTG	TACCA	TACCT	TACCC	TACCG	TACGA	TACGT	TACGC	TA
G	TAGAA	TAGAT	TAGAC	TAGAG	TAGTA	TAGTT	TAGTC	TAGTG	TAGCA	TAGCT	TAGCC	TAGCG	TAGGA	TAGGT	TAGGC TTAGC	T <i>P</i> TT
A T	TTAAA TTTAA	TTAAT TTTAT	TTAAC TTTAC	TTAAG TTTAG	TTATA TTTTA	TTATT TTTTT	TTTTC	TTATG TTTTG	TTACA TTTCA	TTACT TTTCT	TTACC TTTCC	TTACG TTTCG	TTAGA TTTGA	TTAGT TTTGT	TTTGC	
c	TTCAA	TTCAT	TTCAC	TTCAG	TTCTA	TTCTT	TTCTC	TTCTG	TTCCA	TTCCT	TTCCC	TTCCG	TTCGA	TTCGT	TTCGC	 '
G	TTGAA	TTGAT	TTGAC	TTGAG	TTGTA	TTGTT	TIGIC	TTGTG	TTGCA	TTGCT	TTGCC	TTGCG	TTGGA	TTGGT	TTGGC	
A.	TCAAA	TCAAT	TCAAC	TCAAG	TCATA	TCATT	TCATC	TCATG	TCACA	TCACT	TCACC	TCACG	TCAGA	TCAGT	TCAGC	TO
T	TCTAA	TCTAT	TCTAC	TCTAG	TCTTA	TCTTT	TCTTC	TCTTG	TCTCA	TCTCT	TCTCC	TCTCG	TCTGA	TCTGT	TCTGC	TO
C	TCCAA	TCCAT	TCCAC	TCCAG	TCCTA	TCCTT	TCCTC	TCCTG	TCCCA	TCCCT	TCCCC	TCCCG	TCCGA	TCCGT	TCCGC	TO
G	TCGAA	TCGAT	TCGAC	TCGAG	TCGTA	TCGTT	TCGTC	TCGTG	TCGCA	TCGCT	TCGCC	TCGCG	TCGGA	TCGGT	TCGGC	TO
Α	TGAAA	TGAAT	TGAAC	TGAAG	TGATA	TGATT	TGATC	TGATG	TGACA	TGACT	TGACC	TGACG	TGAGA	TGAGT	TGAGC	TO
Т	TGTAA	TGTAT	TGTAC	TGTAG	TGTTA	TGTTT	TGTTC	TGTTG	TGTCA	TGTCT	TGTCC	TGTCG	TGTGA	TGTGT	TGTGC	TO
C	TGCAA	TGCAT	TGCAC	TGCAG	TGCTA	TGCTT	TGCTC	TGCTG	TGCCA	TGCCT	TGCCC	TGCCG	TGCGA	TGCGT	TGCGC	TO
G	TGGAA	TGGAT	TGGAC	TGGAG	TGGTA	TGGTT	TGGTC	TGGTG	TGGCA	TGGCT	TGGCC	TGGCG	TGGGA	TGGGT	TGGGC	TO
A	CAAAA	CAAAT	CAAAC	CAAAG	CAATA	CAATT	CAATC	CAATG	CAACA	CAACT	CAACC	CAACG	CAAGA	CAAGT	CAAGC	C.A
T	CATAA	CATAT	CATAC	CATAG	CATTA	CATTT	CATTC	CATTG	CATCA	CATCT	CATCC	CATCG	CATGA	CATGT	CATGC	CA
C	CACAA	CACAT	CACAC	CACAG	CACTA	CACTT	CACTC	CACTG	CACCA	CACCT	CACCC	CACCG	CACGA	CACGT	CACGC	C.F
١G	CAGAA	CAGAT	CAGAC	CAGAG	CAGTA	CAGTT	CAGTC	CAGTG	CAGCA	CAGCT	CAGCC	CAGCG	CAGGA	CAGGT	CAGGC	C.A
Α	CTAAA	CTAAT	CTAAC	CTAAG	CTATA	CTATT	CTATC	CTATG	CTACA	CTACT	CTACC	CTACG	CTAGA	CTAGT	CTAGC	СТ
Т	CTTAA	CTTAT	CTTAC	CTTAG	CTTTA	CTTTT	CTTTC	CTTTG	CTTCA	СТТСТ	CTTCC	CTTCG	CTTGA	CTTGT	CTTGC	СТ
C	CTCAA	CTCAT	CTCAC	CTCAG	CTCTA	CTCTT	CTCTC	CTCTG	CTCCA	CTCCT	CTCCC	CTCCG	CTCGA	CTCGT	CTCGC	CT
G	CTGAA	CTGAT	CTGAC	CTGAG	CTGTA	CTGTT	CTGTC	CTGTG	CTGCA	CTGCT	CTGCC	CTGCG	CTGGA	CTGGT	CTGGC	CT
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T	CCCAA	CCCAT	CCTAC	CCCAG	CCTTA	CCTTT	CCTTC	CCTTG	CCTCA	CCTCT	CCTCC	CCTCG	CCTGA	CCTGT	CCTGC	CC
C	CCCAA	CCCAT	CCCAC	CCCAG	CCCTA	CCCTT	CCCTC	CCCTG	CCCCA	CCCCT	CCCCC	CCCCG	CCCGA CCGGA	CCCGT	CCCGC	CC
G iA	CCGAA CGAAA	CCGAT CGAAT	CCGAC CGAAC	CCGAG CGAAG	CCGTA CGATA	CGATT	CCGTC CGATC	CCGTG CGATG	CCGCA CGACA	CCGCT CGACT	CCGCC	CCGCG	CGAGA	CCGGT CGAGT	CCGGC CGAGC	CC
T	CGAAA	CGAAT	CGTAC	CGAAG	CGTTA	CGTTT	CGATC	CGATG	CGTCA	CGTCT	CGACC	CGACG	CGTGA	CGAGT	CGAGC	CG
iC	CGCAA	CGCAT	CGCAC	CGCAG	CGCTA	CGCTT	CGCTC	CGCTG	CGCCA	CGCCT	CGCCC		CGCGA	CGCGT	CGCGC	CG
G	CGGAA	CGGAT	CGGAC	CGGAG	CGGTA	CGGTT	CGGTC	CGGTG	CGGCA	CGGCT	CGGCC	CGGCG	CGGGA	CGGGT	CGGGC	CC
A	GAAAA	GAAAT	GAAAC	GAAAG	GAATA	GAATT	GAATC	GAATG	GAACA	GAACT	GAACC	GAACG	GAAGA	GAAGT	GAAGC	G/
T	GATAA	GATAT	GATAC	GATAG	GATTA	GATTT	GATTC	GATTG	GATCA	GATCT	GATCC	GATCG	GATGA	GATGT	GATGC	G.A
C	GACAA	GACAT	GACAC	GACAG	GACTA	GACTT	GACTC	GACTG	GACCA	GACCT	GACCC	GACCG	GACGA	GACGT	GACGC	G.A
G	GAGAA	GAGAT	GAGAC	GAGAG	GAGTA	GAGTT	GAGTC	GAGTG	GAGCA	GAGCT	GAGCC	GAGCG	GAGGA	GAGGT	GAGGC	G/
Α	GTAAA	GTAAT	GTAAC	GTAAG	GTATA	GTATT	GTATC	GTATG	GTACA	GTACT	GTACC	GTACG	GTAGA	GTAGT	GTAGC	G
Т	GTTAA	GTTAT	GTTAC	GTTAG	GTTTA	GTTTT	GTTTC	GTTTG	GTTCA	GTTCT	GTTCC	GTTCG	GTTGA	GTTGT	GTTGC	G1
C	GTCAA	GTCAT	GTCAC	GTCAG	GTCTA	GTCTT	GTCTC	GTCTG	GTCCA	GTCCT	GTCCC	GTCCG	GTCGA	GTCGT	GTCGC	GT
G	GTGAA	GTGAT	GTGAC	GTGAG	GTGTA	GTGTT	GTGTC		GTGCA	GTGCT	GTGCC	GTGCG	GTGGA	GTGGT	GTGGC	GT
Α	GCAAA	GCAAT	GCAAC	GCAAG	GCATA	GCATT	GCATC	GCATG	GCACA	GCACT	GCACC	GCACG	GCAGA	GCAGT	GCAGC	GC
T	GCTAA	GCTAT	GCTAC	GCTAG	GCTTA	GCTTT	GCTTC	GCTTG	GCTCA	GCTCT	GCTCC	GCTCG	GCTGA	GCTGT	GCTGC	GC
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CG	GCGAA	GCGAT	GCGAC	GCGAG	GCGTA	GCGTT	GCGTC	GCGTG	GCGCA	GCGCT	GCGCC	GCGCG	GCGGA	GCGGT	GCGGC	GC
iΑ	GGAAA	GGAAT	GGAAC	GGAAG	GGATA	GGATT	GGATC	GGATG	GGACA	GGACT	GGACC	GGACG	GGAGA	GGAGT	GGAGC	GG
Τí	GGTAA	GGTAT	GGTAC	GGTAG	GGTTA	GGTTT	GGTTC	GGTTG	GGTCA	GGTCT	GGTCC	GGTCG	GGTGA	GGTGT	GGTGC	GG
GC	GGCAA	GGCAT	GGCAC	GGCAG	GGCTA	GGCTT	GGCTC	GGCTG	GGCCA	GGCCT	GGCCC	GGCCG	GGCGA	GGCGT	GGCGC	GG
iG	GGGAA	GGGAT	GGGAC	GGGAG	GGGTA	GGGTT	GGGTC	GGGTG	GGGCA	GGGCT	GGGCC	GGGCG	GGGGA	GGGGT	GGGGC	GG

Before filtering: read2: overrepresented sequences

Sampling rate: 1 / 20		
overrepresented sequence	count (% of bases)	distribution: cycle 1 ~ cycle 151
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	10218 (0.024237%)	
AAAATGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	26622 (0.063147%)	
AAATGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	5980 (0.014184%)	
AACCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	25390 (0.060224%)	
AAGAGCGTCGTGTAGGGAAAGAGTGTAGATCTCGGGGGGG	40 (0.000095%)	
AAGAGCGTCGTGTAGGGAAAGAGTGTAGATCTCGGTGGTC	213 (0.000505%)	
AAGAGCGTCGTGTAGGGAAAGAGTGTAGTTCTCGGGGGGGG	58 (0.000138%)	
AAGAGCGTCGTGTAGGGAAAGAGTGTAGTTCTCGGGGGGTG	34 (0.000081%)	
AAGATGTGTATAAGAGACAG	346094 (0.410463%)	
AATGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	3669 (0.008703%)	
ACACACACACACACACACACACACACACACACACA	2132 (0.005057%)	
ACACACACACACACACACACACACACACACACACACAC	50726 (0.120321%)	
ACACACACACACACACACACACACACACACACACACAC	182 (0.001079%)	
ACACACACACACACACACACACACACACACACACACA	1494 (0.003544%)	
ACACCTGTCTCTTATACACATCTAGATGTGTATAAGAGAC	45731 (0.108473%)	
ACCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	23554 (0.055870%)	
ACCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	1507 (0.003575%)	
ACTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGC	20874 (0.049513%)	
ACTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGG	30250 (0.071752%)	
AG	11004 (0.026101%)	
AGAGATGTGTATAAGAGACA	114506 (0.135803%)	
AGAGCGTCGTGTAGGGAAAGAGTGTAGATCTCGGGGGGGG	18 (0.000043%)	
AGAGCGTCGTGTAGGGAAAGAGTGTAGATCTCGGTGGTCG	83 (0.000197%)	
AGAGCGTCGTGTAGGGAAAGAGTGTAGTTCTCGGGGGGGG	14 (0.000033%)	
AGAGCGTCGTGTAGGGAAAGAGTGTAGTTCTCGGGGGGTGG	11 (0.000026%)	
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTAGATCTC	105355 (0.249899%)	
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTAGTTCTC	58965 (0.139864%)	
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTATATCTC	50938 (0.120824%)	
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTATTTCTC	36655 (0.086945%)	
AGATGTGTATAAGAGACAGCACACACACACACACACAC	18849 (0.044709%)	
AGCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	24246 (0.057511%)	
AGCGTCGTGTAGGGAAAGAGTGTAGATCTCGGTGGTCGCC	276 (0.000655%)	

AGCGTCGTGTAGGGAAAGAGTGTAGTTCTCGGGGGGGGGC	26 (0.000062%)	
AGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	66143 (0.156890%)	
AGGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	25302 (0.060016%)	
ATACACATCTAGATGTGTATAAGAGACAGCACACACAC	161 (0.000382%)	
ATACCTGTCTCTTATACACATCTAGATGTGTATAAGAGAC	16474 (0.039076%)	
ATCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	17659 (0.041887%)	
ATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTAGATCTCGG	687 (0.001630%)	
ATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTAGTTCTCGG	208 (0.000493%)	
ATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTATATCTCGG	221 (0.000524%)	
ATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTATTTCTCGG	58 (0.000138%)	
ATCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	47838 (0.113471%)	
ATGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	23649 (0.056095%)	
ATGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	8667 (0.020558%)	
ATTTCTCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	23 (0.000136%)	
CACACACACACACACACACACACACACACACACACA	17607 (0.041763%)	
CACACACACACACACACACACACACACACACACACACA	243 (0.001441%)	
CACCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	18648 (0.044233%)	
CAGATGTGTATAAGAGACAG	217594 (0.258064%)	
CCAGATGTGTATAAGAGACA	109741 (0.130151%)	
CCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	58647 (0.139109%)	
CCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGA	696 (0.001651%)	
CCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGC	1421 (0.003371%)	
CCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGG	1900 (0.004507%)	
CCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGT	307 (0.000728%)	
CGGAAGAGCGTCGTGTAGGGAAAGAGTGTAGATCTCGGGG	21 (0.000050%)	
CGGAAGAGCGTCGTGTAGGGAAAGAGTGTAGATCTCGGTG	53 (0.000126%)	
CGGAAGAGCGTCGTGTAGGGAAAGAGTGTAGTTCTCGGGG	6 (0.000014%)	
CGGAAGAGCGTCGTGTAGGGAAAGAGTGTAGTTCTCGGTG	17 (0.000040%)	
CGGAAGAGCGTCGTGTAGGGAAAGAGTGTATATCTCGGTG	17 (0.000040%)	
CGGAAGAGCGTCGTGTAGGGAAAGAGTGTATTTCTCGGGG	6 (0.000014%)	
CGGAAGAGCGTCGTGTAGGGAAAGAGTGTATTTCTCGGTG	11 (0.000026%)	
CGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	36 (0.000213%)	
CGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	21402 (0.050765%)	
CGGGTCATTAAAAAAGGGGGGGGGGGGGGGGGGGGGGGG	5188 (0.030765%)	

GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG		
CGGGTCATTTAAAAGGGGGGGGGGGGGGGGGGGGGGGGG	2178 (0.012915%)	
CGGGTGAGTAAAAAGGGGGGGGGGGGGGGGGGGGGGGGG	518 (0.003072%)	
CGGGTGATTAAAAAAGGGGGGGGGGGGGGGGGGGGGGGG	4105 (0.024342%)	
CGGGTGATTTAAAAGGGGGGGGGGGGGGGGGGGGGGGGG	1249 (0.007406%)	
CGGTGGGGGCCGGGTGATTAAAAAGGGGGGGGGGGGGGG	13 (0.000077%)	
CGGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	7 (0.000042%)	
CGGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	24 (0.000142%)	
CGGTGGTGGCCGGGTGATTAAAAAGGGGGGGGGGGGGGG	6 (0.000036%)	
CGGTGGTGGCGGGTCATTAAAAAGGGGGGGGGGGGGGGG	23 (0.000136%)	
CGGTTGATTAAAAAGGGGGGGGGGGGGGGGGGGGGGGGG	933 (0.005533%)	
CGTCGTGTAGGGAAAGAGTGTAGTTCTCGGGGGGGGGGG	47 (0.000111%)	
CTCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	25060 (0.059442%)	
стстстстстстстстстстстстстстстст	7388 (0.017524%)	
CTCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	19590 (0.046467%)	
CTCTTATACACATCTAGATGTGTATAAGAGACAGCACACA	91 (0.000216%)	
CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGAA	1289 (0.003057%)	
CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGAC	3422 (0.008117%)	
CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGAG	1760 (0.004175%)	
CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGAT	3993 (0.009471%)	
CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCA	465 (0.001103%)	
CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCC	262 (0.000621%)	
CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCT	274 (0.000650%)	
CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGA	255 (0.000605%)	
CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGC	328 (0.000778%)	
CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGG	313 (0.000742%)	
CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGT	593 (0.001407%)	
CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGTC	1898 (0.004502%)	
CTGTCTCTTATACACATCTC	355414 (0.421517%)	
CTGTCTCTTATACACATCTG	297770 (0.353152%)	
CTGTCTCTTATACACATCTT	312084 (0.370128%)	
CTTATACACATCTAGATGTGTATAAGAGACAGCACACACA	60 (0.000142%)	
GAAAAGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	9637 (0.022859%)	
GAAAGAGTGTATTTCTCGGGGGGGGGGGGGGGGGGGGGG	612 (0.003629%)	

GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG		
GAAGAGCGTCGTGTAGGGAAAGAGTGTAGATCTCGGGGGG	80 (0.000190%)	
GAAGAGCGTCGTGTAGGGAAAGAGTGTAGATCTCGGTGGG	144 (0.000342%)	
GAAGAGCGTCGTGTAGGAAAGAGTGTAGATCTCGGTGGT	348 (0.000825%)	
GAAGAGCGTCGTGTAGGGAAAGAGTGTAGTTCTCGGGGGG	91 (0.000216%)	
GAAGAGCGTCGTGTAGGGAAAGAGTGTAGTTCTCGGGGGGT	53 (0.000126%)	
GAAGAGCGTCGTGTAGGGAAAGAGTGTAGTTCTCGGTGGG	124 (0.000294%)	
GAAGAGCGTCGTGTAGGGAAAGAGTGTAGTTCTCGGTGGT	90 (0.000213%)	
GAAGAGCGTCGTGTAGGGAAAGAGTGTATTTCTCGGTGGG	53 (0.000126%)	
GACCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	25199 (0.059771%)	
GA	10232 (0.024270%)	
GAGATGTGTATAAGAGACAG	129152 (0.153173%)	
GAGCGTCGTGTAGGGAAAGAGTGTAGATCTCGGTGGTCGC	73 (0.000173%)	
GAGCGTCGTGTAGGGAAAGAGTGTAGTTCTCGGGGGGGGG	10 (0.000024%)	
GATCGGAAGAGCGTCGTAGGGAAAGAGTGTAGATCTCG	167 (0.000396%)	
GATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTAGTTCTCG	85 (0.000202%)	
GATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTATATCTCG	105 (0.000249%)	
GATCGGAAGAGCGTCGTAGGGAAAGAGTGTATTTCTCG	53 (0.000126%)	
GATGTGTATAAGAGACACACACACACACACACACACACAC	150 (0.000356%)	
GCACACACACACACACACACACACACACACACACACACA	20823 (0.049392%)	
GCCGGGGGATTAAAAAGGGGGGGGGGGGGGGGGGGGGGG	82 (0.000486%)	
GCCGGGTCATTAAAAAGGGGGGGGGGGGGGGGGGGGGGG	2420 (0.014350%)	
GCCGGGTCATTTAAAAGGGGGGGGGGGGGGGGGGGGGGG	313 (0.001856%)	
GCCGGGTGATTAAAAAGGGGGGGGGGGGGGGGGGGGGGG	483 (0.002864%)	
GCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	50401 (0.119550%)	
GCGTCGTGTAGGGAAAGAGTGTAGATCTCGGTGGTCGCCG	158 (0.000375%)	
GCGTCGTGTAGGGAAAGAGTGTAGTTCTCGGGGGGGGGG	11 (0.000026%)	
GCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGA	2499 (0.005928%)	
GCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGC	4927 (0.011687%)	
GCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGG	7663 (0.018176%)	
GCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGT	1298 (0.003079%)	
GGAAGAGCGTCGTGTAGGGAAAGAGTGTAGATCTCGGGGG	66 (0.000157%)	
GGAAGAGCGTCGTGTAGGGAAAGAGTGTAGATCTCGGTGG	264 (0.000626%)	
GGAAGAGCGTCGTGTAGGGAAAGAGTGTAGTTCTCGGGGG	61 (0.000145%)	

GGAAGAGCGTCGTGTAGGGAAAGAGTGTAGTTCTCGGTGG	90 (0.000213%)	
GGAAGAGCGTCGTGTAGGGAAAGAGTGTATATCTCGGTGG	115 (0.000273%)	
GGAAGAGCGTCGTGTAGGGAAAGAGTGTATTTCTCGGGGG	44 (0.000104%)	
GGAAGAGCGTCGTGTAGGGAAAGAGTGTATTTCTCGGTGG	44 (0.000104%)	
GGCCGGGGGATTAAAAAGGGGGGGGGGGGGGGGGGGGGG	428 (0.002538%)	
GGCCGGGTCATTAAAAAGGGGGGGGGGGGGGGGGGGGGG	2855 (0.016930%)	
GGCCGGGTCATTTAAAAGGGGGGGGGGGGGGGGGGGGGG	1224 (0.007258%)	
GGCGGGGGATTAAAAAGGGGGGGGGGGGGGGGGGGGGGG	115 (0.000682%)	
GGCGGGTCATTAAAAAAGGGGGGGGGGGGGGGGGGGGGG	630 (0.003736%)	
GGCGGGTCATTAAAAAGGGGGGGGGGGGGGGGGGGGGGG	1172 (0.006950%)	
GGCGGGTGAGTAAAAAGGGGGGGGGGGGGGGGGGGGGGG	87 (0.000516%)	
GGCGGGTGATTAAAAAGGGGGGGGGGGGGGGGGGGGGGG	503 (0.002983%)	
GGCGGGTGATTTAAAAGGGGGGGGGGGGGGGGGGGGGGG	198 (0.001174%)	
GGCGGTTGATTAAAAAGGGGGGGGGGGGGGGGGGGGGGG	199 (0.001180%)	
GGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	18662 (0.044266%)	
GGGCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1316 (0.007804%)	
GGGCGGGTCATTAAAAAAGGGGGGGGGGGGGGGGGGGGG	979 (0.005805%)	
GGGCGGGTGAGTAAAAAGGGGGGGGGGGGGGGGGGGGGG	910 (0.005396%)	
GGGCGGGTGATTAAAAAGGGGGGGGGGGGGGGGGGGGGG	2436 (0.014445%)	
GGGCGGGTGATTTAAAAGGGGGGGGGGGGGGGGGGGGGG	1434 (0.008504%)	
GGGCGGTTGATTAAAAAGGGGGGGGGGGGGGGGGGGGGG	1952 (0.011575%)	
GGGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	22736 (0.053929%)	
GGGGCCGGGTGATTAAAAAGGGGGGGGGGGGGGGGGGGG	5 (0.000030%)	
GGGGGGTTAAAAAGGGGGGGGGGGGGGGGGGGGGGGGGG	44 (0.000261%)	
GGGGGCCGGGTGATTAAAAAGGGGGGGGGGGGGGGGGGG	753 (0.004465%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	3 (0.000018%)	
GGGGGCGGGTCATTAAAAAGGGGGGGGGGGGGGGGGGGG	3 (0.000018%)	
GGGGGCGGGTGATTAAAAAGGGGGGGGGGGGGGGGGGGG	9 (0.000053%)	
GGGGGCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	7 (0.000042%)	
GGGGGGCGGGCGGGGGGGGGGGGGGGGGGGGGGGGGGG	527 (0.003125%)	
GGGGGGCGGGTCATTAAAAAGGGGGGGGGGGGGGGGGGG	3129 (0.018555%)	
GGGGGGCGGGTGATTTAAAAGGGGGGGGGGGGGGGGGGG	3045 (0.018057%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	96 (0.000569%)	

GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG		
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	36 (0.000213%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	62 (0.000368%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	114 (0.000676%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	172 (0.001020%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	325 (0.001927%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	449 (0.002663%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	540 (0.003202%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	678 (0.004020%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1046 (0.006203%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	951 (0.005639%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1311 (0.007774%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	21 (0.000125%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	2238 (0.013271%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1106432 (2.624430%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	11841 (0.070216%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	9584 (0.084680%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	5769 (0.013684%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	4623 (0.027414%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	610 (0.003617%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	772 (0.004578%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1301 (0.007715%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1646 (0.009761%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	3184 (0.018881%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	60 (0.000356%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	3677 (0.021804%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	3166 (0.018774%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	42 (0.000249%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	643 (0.003813%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	3113 (0.018460%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	710 (0.004210%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	34 (0.000202%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	484 (0.002870%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG		

GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	2132 (0.012643%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	529 (0.003137%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1605 (0.009518%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	348 (0.002064%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1106 (0.006559%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	2713 (0.016088%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	331 (0.001963%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	927 (0.005497%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	158 (0.000937%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	254 (0.001506%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	642 (0.003807%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	113 (0.000670%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	164 (0.000973%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	395 (0.002342%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	82 (0.000486%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	105 (0.000623%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	378 (0.002242%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	107 (0.000635%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	218 (0.001293%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	39 (0.000231%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	284 (0.001684%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	307 (0.001820%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	526 (0.003119%)	
GGGGGGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	691 (0.004098%)	
GGGGGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1224 (0.007258%)	
GGGGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1682 (0.009974%)	
GGGTCATTAAAAAAGGGGGGGGGGGGGGGGGGGGGGGGG	75 (0.000445%)	
GGGTCATTAAAAAGGGGGGGGGGGGGGGGGGGGGGGGGG	168 (0.000996%)	
GGGTCATTTAAAAGGGGGGGGGGGGGGGGGGGGGGGGGG	96 (0.000569%)	
GGGTGAGTAAAAAGGGGGGGGGGGGGGGGGGGGGGGGG	48 (0.000285%)	
GGGTGATTAAAAAAGGGGGGGGGGGGGGGGGGGGGGGG	117 (0.000694%)	
GGGTGATTAAAAAGGGGGGGGGGGGGGGGGGGGGGGGG	300 (0.001779%)	
GGGTGATTTAAAAGGGGGGGGGGGGGGGGGGGGGGGGG	252 (0.001494%)	
GGGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	3500 (0.020755%)	

GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG		
GGTGGCCGGGTCATTAAAAAGGGGGGGGGGGGGGGGGGG	2174 (0.012892%)	
GGTGGCCGGGTGATTAAAAAGGGGGGGGGGGGGGGGGGG	443 (0.002627%)	
GGTGGGCGGGTCATTAAAAAGGGGGGGGGGGGGGGGGGG	939 (0.005568%)	
GGTGGGGGCCGGGTGATTAAAAAGGGGGGGGGGGGGGGG	13 (0.000077%)	
GGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	17 (0.000101%)	
GGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	62 (0.000368%)	
GGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	46 (0.000273%)	
GGTGGTGGCCGGGTGATTAAAAAGGGGGGGGGGGGGGGG	10 (0.000059%)	
GGTGGTGGGCGGGTCATTAAAAAGGGGGGGGGGGGGGGG	16 (0.000095%)	
GGTTGATTAAAAAGGGGGGGGGGGGGGGGGGGGGGGGG	156 (0.000925%)	
GTCTCTTATACACATCTAGATGTGTATAAGAGACAGCACA	144 (0.000342%)	
GTCTCTTATACACATCTAGATGTGTATAAGAGACAGGTGT	137 (0.000325%)	
GTCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	39143 (0.092846%)	
GTGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	14792 (0.035086%)	
GTGGCCGGGTCATTAAAAAGGGGGGGGGGGGGGGGGGGG	6 (0.000036%)	
GTGGCCGGGTGATTAAAAAGGGGGGGGGGGGGGGGGGGG	3 (0.000018%)	
GTGGGCGGGTCATTAAAAAGGGGGGGGGGGGGGGGGGGG	3 (0.000018%)	
GTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	73 (0.000433%)	
GTGTGCTGTCTCTTATACACATCTAGATGTGTATAAGAGA	2296 (0.005446%)	
GTGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	4982 (0.029543%)	
GTGTGTGCTGTCTCTTATACACATCTAGATGTGTATAAGA	1921 (0.004557%)	
GTGTGTGTGTCTCTTATACACATCTAGATGTGTATAA	2913 (0.006910%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	1542 (0.003658%)	
GT	36160 (0.085771%)	
GTGTTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1753 (0.010395%)	
GTTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	2433 (0.014428%)	
GTTTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	3182 (0.018869%)	
TACCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	16238 (0.038516%)	
TATACACATCTAGATGTGTATAAGAGACAGCACACACACA	103 (0.000244%)	
TCACACACACACACACACACACACACACACACACACACA	17047 (0.040435%)	
TCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	30866 (0.073213%)	
TCGGAAGAGCGTCGTGTAGGGAAAGAGTGTAGATCTCGGG	10 (0.000024%)	
TCGGAAGAGCGTCGTGTAGGGAAAGAGTGTAGATCTCGGT	18 (0.000043%)	

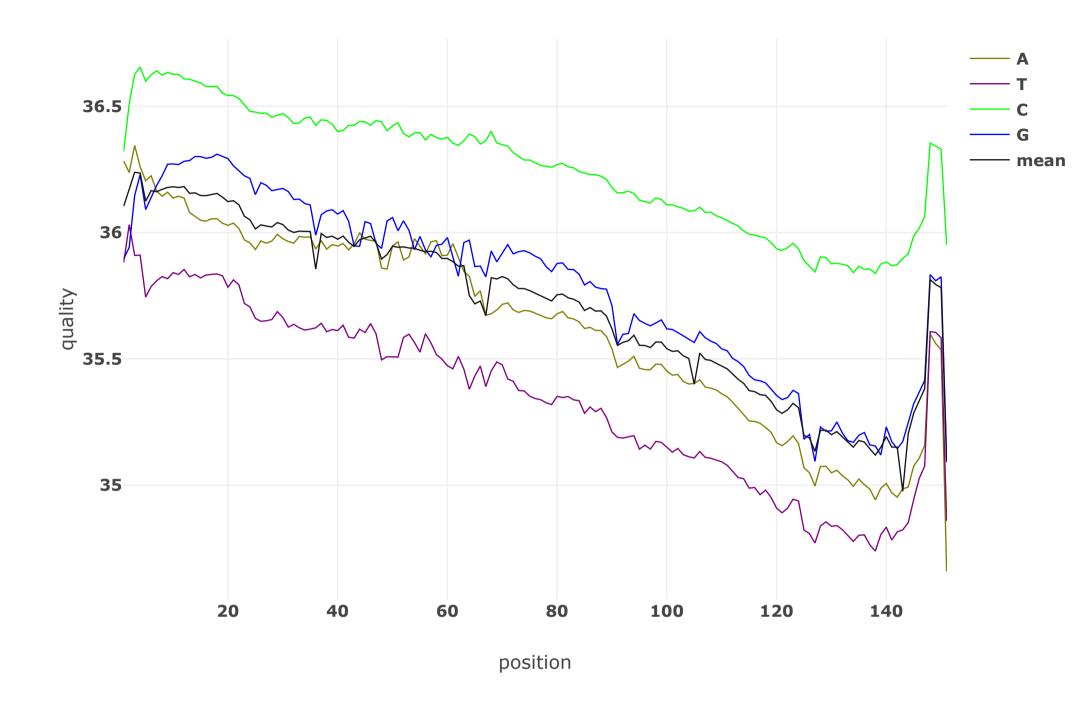
TCGGAAGAGCGTCGTGTAGGGAAAGAGTGTAGTTCTCGGT	6 (0.000014%)	
TCGGAAGAGCGTCGTGTAGGGAAAGAGTGTATATCTCGGT	6 (0.000014%)	
TCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	310 (0.001838%)	
TCGGTGGGGGCCGGGTGATTAAAAAGGGGGGGGGGGGGG	39 (0.000231%)	
TCGGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	585 (0.003469%)	
TCGGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	165 (0.000978%)	
TCGGTGGTGGCCGGGTGATTAAAAAGGGGGGGGGGGGGG	44 (0.000261%)	
TCGGTGGTGGGCGGGTCATTAAAAAGGGGGGGGGGGGGG	93 (0.000551%)	
TCTCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	649 (0.003849%)	
TCTCGGTGGGGGCCGGGTGATTAAAAAGGGGGGGGGGGG	731 (0.004335%)	
TCTCGGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	462 (0.002740%)	
TCTCGGTGGTGGCCGGGTGATTAAAAAGGGGGGGGGGGG	500 (0.002965%)	
TCTCGGTGGTGGGCGGGTCATTAAAAAGGGGGGGGGGGG	1051 (0.006232%)	
тстстстстстстстстстстстстстстстс	10129 (0.024026%)	
TCTCTTATACACATCTAGATGTGTATAAGAGACAGCACAC	74 (0.000176%)	
TCTCTTATACACATCTAGATGTGTATAAGAGACAGGTGTG	37 (0.000088%)	
TCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGA	181 (0.000429%)	
TCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGC	403 (0.000956%)	
TCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGG	583 (0.001383%)	
TCTTATACACATCTAGATGTGTATAAGAGACAGCACACAC	49 (0.000116%)	
TGAGATGTGTATAAGAGACA	143977 (0.170755%)	
TGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	27467 (0.065151%)	
TGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1513 (0.008972%)	
TGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	114 (0.000676%)	
TGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	3075 (0.018235%)	
TGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	2741 (0.016254%)	
TGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	2130 (0.012631%)	
TGGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	4342 (0.025748%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCAC	299 (0.000709%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCAT	99 (0.000235%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCCC	101 (0.000240%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCCT	98 (0.000232%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCTC	142 (0.000337%)	

TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGAG	127 (0.000301%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGCA	77 (0.000183%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGGA	70 (0.000166%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGGC	109 (0.000259%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGGG	83 (0.000197%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGGT	109 (0.000259%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGTA	143 (0.000339%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGTC	123 (0.000292%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGTG	345 (0.000818%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGTT	117 (0.000278%)	
TGTCTCTTATACACATCTCA	1066 (0.001264%)	
TGTCTCTTATACACATCTCT	911 (0.001080%)	
TGTCTCTTATACACATCTGG	710 (0.000842%)	
TGTCTCTTATACACATCTGT	756 (0.000897%)	
TGTGCTGTCTCTTATACACATCTAGATGTGTATAAGAGAC	10101 (0.023959%)	
TGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	5635 (0.033415%)	
TGTGTGCTGTCTCTTATACACATCTAGATGTGTATAAGAG	3726 (0.008838%)	
TGTGTGTGCTGTCTCTTATACACATCTAGATGTGTATAAG	1650 (0.003914%)	
TGTGTGTGTGCTCTCTTATACACATCTAGATGTGTATA	21153 (0.050174%)	
TG	51013 (0.121002%)	
TGTTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	2182 (0.012939%)	
TTATACACATCTAGATGTGTATAAGAGACAGCACACAC	59 (0.000140%)	
TTCTCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	715 (0.004240%)	
TTCTCGGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1073 (0.006363%)	
TTCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	16181 (0.038381%)	
TTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	28 (0.000166%)	
TTTCTCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	109 (0.000646%)	
TTTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	13 (0.000077%)	
TTTTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	2100 (0.012453%)	
TTTTTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	5536 (0.032828%)	

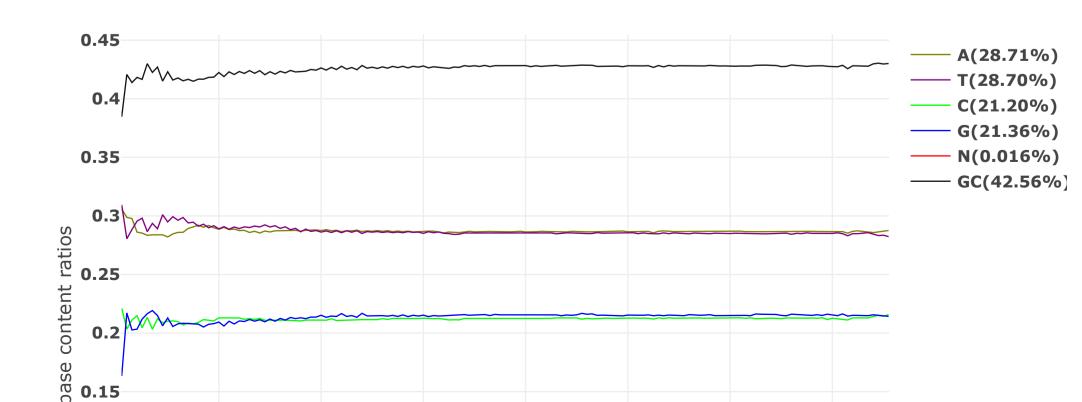
After filtering

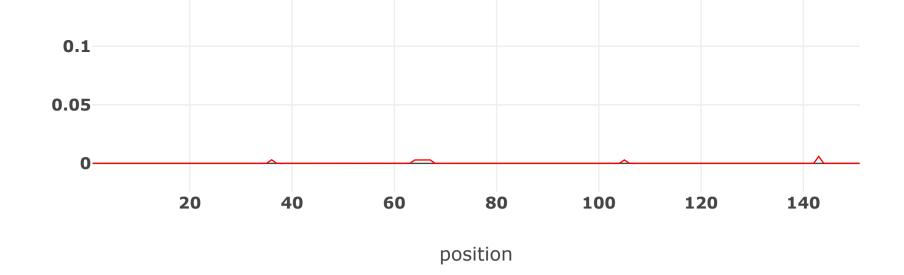
After filtering: read1: quality

Value of each position will be shown on mouse over.



After filtering: read1: base contents





After filtering: read1: KMER counting

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

Dark	AA	AT	AC	AG	TA	TT	TC TC	TG TG	CA CA	CT	cc 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 ATGTG	ATCCA	ATCCT	ATCCC	ATCCC	ATCGA ATGGA	ATCGT	ATCGC ATGGC	ATCGG ATGGG
ATG	ATGAA ACAAA	ATGAT ACAAT	ATGAC ACAAC	ATGAG ACAAG	ATGTA ACATA	ATGTT ACATT	ATGTC ACATC	ACATG	ATGCA ACACA	ATGCT ACACT	ATGCC ACACC	ATGCG ACACG	ACAGA	ATGGT 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 TAAAG	AGGTA	AGGTT	AGGTC	AGGTG	AGGCA	AGGCT	AGGCC TAACC	AGGCG	AGGGA TAAGA	AGGGT	AGGGC	AGGGG
TAA	TAAAA TATAA	TAAAT TATAT	TAAAC TATAC	TATAG	TAATA TATTA	TAATT TATTT	TAATC TATTC	TAATG TATTG	TAACA TATCA	TAACT TATCT	TATCC	TAACG TATCG	TATGA	TAAGT TATGT	TAAGC TATGC	TAAGG TATGG
TAC	TACAA	TACAT	TACAC	TACAG	TACTA	TACTT	TACTC	TACTG	TACCA	TACCT	TACCC	TACCG	TACGA	TACGT	TACGC	TACGG
TAG	TAGAA	TAGAT	TAGAC	TAGAG	TAGTA	TAGTT	TAGTC	TAGTG	TAGCA	TAGCT	TAGCC	TAGCG	TAGGA	TAGGT	TAGGC	TAGGG
TTA	TTAAA	TTAAT	TTAAC	TTAAG	TTATA	TTATT	TTATC	TTATG	TTACA	TTACT	TTACC	TTACG	TTAGA	TTAGT	TTAGC	TTAGG
TTT	TTTAA	TTTAT	TTTAC	TTTAG	TTTTA	TTTTT	TTTTC	TTTTG	TTTCA	TTTCT	TTTCC	TTTCG	TTTGA	TTTGT	TTTGC	TTTGG
TTC	TTCAA	TTCAT	TTCAC	TTCAG	TTCTA	TTCTT	TTCTC	TTCTG	TTCCA	TTCCT	TTCCC	TTCCG	TTCGA	TTCGT	TTCGC	TTCGG
TTG	TTGAA	TTGAT	TTGAC	TTGAG	TTGTA	TTGTT	TTGTC	TTGTG	TTGCA	TTGCT	TTGCC	TTGCG	TTGGA	TTGGT	TTGGC	TTGGG
TCA	TCAAA	TCAAT	TCAAC	TCAAG	TCATA	TCATT	TCATC	TCATG	TCACA	TCACT	TCACC	TCACG	TCAGA	TCAGT	TCAGC	TCAGG
TCT	TCTAA TCCAA	TCTAT TCCAT	TCTAC TCCAC	TCTAG TCCAG	TCTTA TCCTA	TCTTT TCCTT	TCTTC TCCTC	TCTTG TCCTG	TCTCA TCCCA	TCTCT TCCCT	TCTCC TCCCC	TCTCG TCCCG	TCTGA TCCGA	TCTGT TCCGT	TCTGC TCCGC	TCTGG 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 CTAAA	CAGAT CTAAT	CAGAC CTAAC	CAGAG CTAAG	CAGTA CTATA	CAGTT CTATT	CAGTC CTATC	CAGTG CTATG	CAGCA CTACA	CAGCT CTACT	CAGCC CTACC	CAGCG CTACG	CAGGA CTAGA	CAGGT CTAGT	CAGGC CTAGC	CAGGG CTAGG
CTT	CTAAA	CTTAT	CTTAC	CTAAG	CTTTA	CTTTT	CTTTC	CTTTG	CTTCA	CTTCT	CTTCC	CTTCG	CTTGA	CTTGT	CTAGC	CTTGG
CTC	CTCAA	CTCAT	CTCAC	CTCAG	CTCTA	CTCTT	CTCTC	CTCTG	CTCCA	CTCCT	СТССС	CTCCG	CTCGA	CTCGT	CTCGC	CTCGG
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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	CCCTC	CCCTG	CCCCA	CCCCT	CCCCC	CCCCG	CCCGA	CCCGT	CCCGC	CCCGG
CCG		CCGAT	CCGAC	CCGAG	CCGTA	CCGTT	CCGTC	CCGTG	CCGCA	CCGCT	CCGCC	CCGCG	CCGGA	CCGGT	CCGGC	CCGGG
CGA	CGAAA CGTAA	CGAAT CGTAT	CGAAC CGTAC	CGAAG CGTAG	CGATA CGTTA	CGATT CGTTT	CGATC CGTTC	CGATG CGTTG	CGACA CGTCA	CGACT CGTCT	CGACC CGTCC	CGACG CGTCG	CGAGA CGTGA	CGAGT CGTGT	CGAGC CGTGC	CGAGG CGTGG
CGC	CGCAA	CGCAT	CGCAC	CGCAG	CGTTA	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 GTG	GTCAA GTGAA	GTCAT GTGAT	GTCAC GTGAC	GTCAG GTGAG	GTCTA GTGTA	GTCTT GTGTT	GTCTC GTGTC	GTCTG GTGTG	GTCCA GTGCA	GTCCT GTGCT	GTCCC GTGCC	GTCCG GTGCG	GTCGA GTGGA	GTCGT GTGGT	GTCGC GTGGC	GTCGG 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
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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

overrepresented sequence	count (% of bases)	distribution: cycle 1 ~ cycle 151
AAAGATGTGTATAAGAGACA	74607 (0.118983%)	

AAGATGTGTATAAGAGACAG	127676 (0.203618%)	
AAGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	15812 (0.050434%)	
ACACACACACACACACACACACACACACACACACA	985 (0.003142%)	
AC	35268 (0.112491%)	
ACACACACACACACACACACACACACACACACACA	1025 (0.003269%)	
ACACACACACACACACACCTGTCTCTTATACACATC	12660 (0.040380%)	
ACACACACACCTGTCTCTTATACACATCTAGATGTGTA	9596 (0.030607%)	
ACACACACCTGTCTCTTATACACATCTAGATGTGTATA	1066 (0.003400%)	
ACACACCTGTCTCTTATACACATCTAGATGTGTATAAG	1385 (0.004418%)	
ACACACCTGTCTCTTATACACATCTAGATGTGTATAAGAG	2881 (0.009189%)	
ACACATCTAGATGTGTATAAGAGACAGCACACACACAC	90 (0.000287%)	
ACACATCTAGATGTGTATAAGAGACAGGTGTGTGTGTG	84 (0.000268%)	
ACACCTGTCTCTTATACACATCTAGATGTGTATAAGAGAC	18667 (0.059540%)	
ACAGATGTGTATAAGAGACA	82746 (0.131963%)	
ACATCTAGATGTGTATAAGAGACAGGTGTGTGTGTGTGTG	131 (0.000418%)	
ACCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	23934 (0.076340%)	
ACCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	27677 (0.088279%)	
ACTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGC	13568 (0.043277%)	
ACTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGG	20601 (0.065709%)	
AG	7704 (0.024573%)	
AGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	198 (0.001579%)	
AGATGTGTATAAGAGACAGCACACACACACACACACAC	12713 (0.040549%)	
AGATGTGTATAAGAGACAGGTGTGTGTGTGTGTGTGTGTG	11170 (0.035628%)	
AGCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	25391 (0.080987%)	
AGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	27806 (0.088690%)	
AGGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	25745 (0.082116%)	
ATAAGAGACAGGTGTGTGTGTGTGTGTGTGTGTGTG	33 (0.000105%)	
ATACACATCTAGATGTGTATAAGAGACAGCACACACAC	106 (0.000338%)	
ATACACATCTAGATGTGTATAAGAGACAGGTGTGTGTG	62 (0.000198%)	
ATCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	17825 (0.056855%)	
ATCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	34047 (0.108596%)	
ATGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	24897 (0.079412%)	
ATGTGTATAAGAGACAGCACACACACACACACACACAC	93 (0.000297%)	

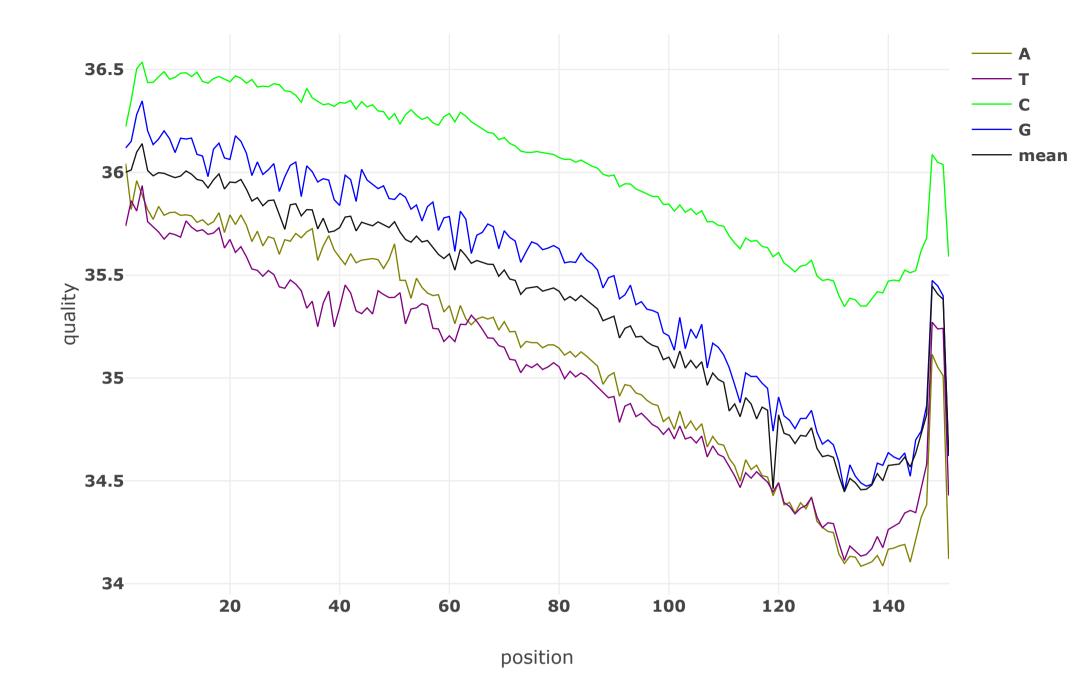
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CAAGATGTGTATAAGAGACA	93357 (0.148886%)	
CACACACACACACACACACACACACACACACACAAA	549 (0.001751%)	
CACACACACACACACACACACACACACACACACACACA	10934 (0.034875%)	
CACACACACACACACACCTGTCTCTTATACACATCT	1550 (0.004944%)	
CACACACACCTGTCTCTTATACACATCTAGATGTGTAT	1243 (0.003965%)	
CACACACCTGTCTCTTATACACATCTAGATGTGTATAA	973 (0.003103%)	
CACACACCTGTCTCTTATACACATCTAGATGTGTATAAGA	2264 (0.007221%)	
CACACCTGTCTCTTATACACATCTAGATGTGTATAAGAGA	5322 (0.016975%)	
CACATCTAGATGTGTATAAGAGACAGGTGTGTGTGTGTGT	107 (0.000341%)	
CACCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	19190 (0.061208%)	
CAGATGTGTATAAGAGACAG	100940 (0.160979%)	
CATCTAGATGTGTATAAGAGACAGGTGTGTGTGTGTGTGT	136 (0.000434%)	
CCAGATGTGTATAAGAGACA	92686 (0.147816%)	
CCCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	19727 (0.062921%)	
CCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	39315 (0.125399%)	
CCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGA	717 (0.002287%)	
CCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGC	1580 (0.005040%)	
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CCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGT	340 (0.001084%)	
CTCACACACACACACACACACACACACACACACACA	8885 (0.028340%)	
стстстстстстстстстстстстстстстстст	2731 (0.008711%)	
CTCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	20355 (0.064924%)	
CTCTTATACACATCTAGATGTGTATAAGAGACAGCACACA	50 (0.000159%)	
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CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGG		

	399 (0.001273%)	
CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGT	685 (0.002185%)	
CTGTCTCTTATACACATCTC	328033 (0.523147%)	
CTGTCTCTTATACACATCTG	284417 (0.453588%)	
CTGTCTCTTATACACATCTT	297700 (0.474772%)	
CTTATACACATCTAGATGTGTATAAGAGACAGCACACAC	38 (0.000121%)	
CTTATACACATCTAGATGTGTATAAGAGACAGGTGTGTGT	31 (0.000099%)	
GACCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	25552 (0.081501%)	
GACTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	23644 (0.075415%)	
GA	7522 (0.023992%)	
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GAGATGTGTATAAGAGACAG	205762 (0.328149%)	
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GATGTGTATAAGAGACAGCACACACACACACACACACA	93 (0.000297%)	
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GCACACACACACACACACACACACACACACACACACACA	14496 (0.046236%)	
GCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	6903 (0.022018%)	
GCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGA	2376 (0.007578%)	
GCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGC	4773 (0.015224%)	
GCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGG	7441 (0.023734%)	
GCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGT	1251 (0.003990%)	
GGCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	22985 (0.073313%)	
GGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	18209 (0.058079%)	
GGGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	22132 (0.070592%)	
GGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	6891 (0.021980%)	
GTATAAGAGACAGGTGTGTGTGTGTGTGTGTGTG	28 (0.000089%)	
GTCTCTTATACACATCTAGATGTGTATAAGAGACAGCACA	88 (0.000281%)	
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GTGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	14445 (0.046074%)	
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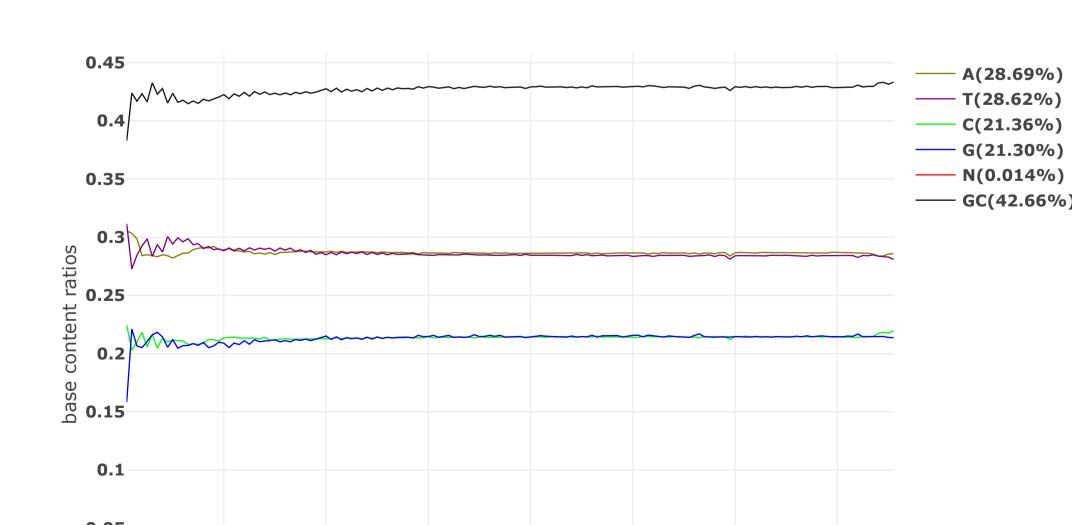
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TACACACACACACACA	67853 (0.108212%)	
TACACATCTAGATGTGTATAAGAGACAGCACACACACACA	117 (0.000373%)	
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TATCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	16280 (0.051927%)	
TCACACACACACACACACACACACACACACACACACACA	4154 (0.013250%)	
TCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	36679 (0.116991%)	
тстстстстстстстстстстстстстстстстс	3442 (0.010979%)	
TCTCTTATACACATCTAGATGTGTATAAGAGACAGCACAC	50 (0.000159%)	
TCTCTTATACACATCTAGATGTGTATAAGAGACAGGTGTG	46 (0.000147%)	
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TCTTATACACATCTAGATGTGTATAAGAGACAGGTGTGTG	26 (0.000083%)	
TGAGATGTGTATAAGAGACA	121328 (0.193494%)	
TGCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	22560 (0.071957%)	
TGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	27592 (0.088007%)	
TGTATAAGAGACAGGTGTGTGTGTGTGTGTGTGTGT	24 (0.000077%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCAC	171 (0.000545%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCAT	99 (0.000316%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCCC	66 (0.000211%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCCT	69 (0.000220%)	
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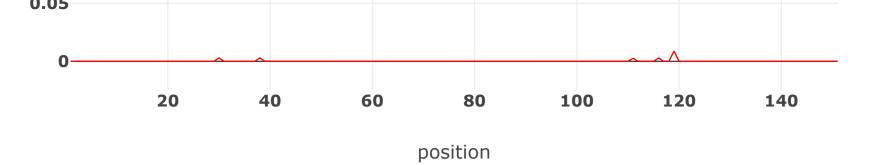
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TGTCTCTTATACACATCTTG	483 (0.000770%)	
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TGTGTGTGTGTGTGTGTGTCTCTTATACACATC	13302 (0.042428%)	
тстстстстстстстстстстстстстстс	25650 (0.081813%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTTGTT	558 (0.001780%)	
TTATACACATCTAGATGTGTATAAGAGACAGCACACAC	39 (0.000124%)	
TTATACACATCTAGATGTGTATAAGAGACAGGTGTGTGTG	35 (0.000112%)	
TTCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	18438 (0.058810%)	

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.

2011				tur ger												
	AA	AT	AC	AG	TA	TT	TC	TG	CA	CT	CC	CG	GA	GT	GC	GG
AAA	AAAAA	AAAAT	AAAAC	AAAAG	AAATA	AAATT	AAATC	AAATG	AAACA	AAACT	AAACC	AAACG	AAAGA	AAAGT	AAAGC	AAAGG
AAT	AATAA	AATAT	AATAC	AATAG	AATTA	AATTT	AATTC	AATTG	AATCA	AATCT	AATCC	AATCG	AATGA	AATGT	AATGC	AATGG
AAC	AACAA	AACAT	AACAC	AACAG	AACTA	AACTT	AACTC	AACTG	AACCA	AACCT	AACCC	AACCG	AACGA	AACGT	AACGC	AACGG
												-				
AAG	AAGAA	AAGAT	AAGAC	AAGAG	AAGTA	AAGTT	AAGTC	AAGTG	AAGCA	AAGCT	AAGCC	AAGCG	AAGGA	AAGGT	AAGGC	AAGGG
ATA	ATAAA	ATAAT	ATAAC	ATAAG	ATATA	ATATT	ATATC	ATATG	ATACA	ATACT	ATACC	ATACG	ATAGA	ATAGT	ATAGC	ATAGG
ATT	ATTAA	ATTAT	ATTAC	ATTAG	ATTTA	ATTTT	ATTTC	ATTTG	ATTCA	ATTCT	ATTCC	ATTCG	ATTGA	ATTGT	ATTGC	ATTGG
ATC	ATCAA	ATCAT	ATCAC	ATCAG	ATCTA	ATCTT	ATCTC	ATCTG	ATCCA	ATCCT	ATCCC	ATCCG	ATCGA	ATCGT	ATCGC	ATCGG
ATG	ATGAA	ATGAT	ATGAC	ATGAG	ATGTA	ATGTT	ATGTC	ATGTG	ATGCA	ATGCT	ATGCC	ATGCG	ATGGA	ATGGT	ATGGC	ATGGG
ACA	ACAAA	ACAAT	ACAAC	ACAAG	ACATA	ACATT	ACATC	ACATG	ACACA	ACACT	ACACC	ACACG	ACAGA	ACAGT	ACAGC	ACAGG
											-					
ACT	ACTAA	ACTAT	ACTAC	ACTAG	ACTTA	ACTTT	ACTTC	ACTTG	ACTCA	ACTCT	ACTCC	ACTCG	ACTGA	ACTGT	ACTGC	ACTGG
ACC	ACCAA	ACCAT	ACCAC	ACCAG	ACCTA	ACCTT	ACCTC	ACCTG	ACCCA	ACCCT	ACCCC	ACCCG	ACCGA	ACCGT	ACCGC	ACCGG
ACG	ACGAA	ACGAT	ACGAC	ACGAG	ACGTA	ACGTT	ACGTC	ACGTG	ACGCA	ACGCT	ACGCC	ACGCG	ACGGA	ACGGT	ACGGC	ACGGG
AGA	AGAAA	AGAAT	AGAAC	AGAAG	AGATA	AGATT	AGATC	AGATG	AGACA	AGACT	AGACC	AGACG	AGAGA	AGAGT	AGAGC	AGAGG
AGT	AGTAA	AGTAT	AGTAC	AGTAG	AGTTA	AGTTT	AGTTC	AGTTG	AGTCA	AGTCT	AGTCC	AGTCG	AGTGA	AGTGT	AGTGC	AGTGG
AGC	AGCAA	AGCAT	AGCAC	AGCAG	AGCTA	AGCTT	AGCTC	AGCTG	AGCCA	AGCCT	AGCCC	AGCCG	AGCGA	AGCGT	AGCGC	AGCGG
	AGGAA	AGGAT					AGGTC				-			AGGGT	AGGGC	
AGG			AGGAC	AGGAG	AGGTA	AGGTT		AGGTG	AGGCA	AGGCT	AGGCC	AGGCG	AGGGA			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
			TTTAC							TTTCT					TTTCC	
TTT	TTTAA	TTTAT	TTTAC	TTTAG	TTTTA	TTTTT	TTTTC	TTTTG	TTTCA	TTCCT	TTTCC	TTTCG	TTTGA	TTTGT	TTGGG	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	TCTCT	TCTCC	TCTCG	TCTGA	TCTGT	TCTGC	TCTGG
TCC	TCCAA	TCCAT	TCCAC	TCCAG	TCCTA	TCCTT	TCCTC	TCCTG	TCCCA	TCCCT	TCCCC	TCCCG	TCCGA	TCCGT	TCCGC	TCCGG
		TCGAT									TCGCC			TCGGT		
TCG	TCGAA		TCGAC	TCGAG	TCGTA	TCGTT	TCGTC	TCGTG	TCGCA	TCGCT		TCGCG	TCGGA		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	CTTCT	CTTCC	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	CCTAA	CCTAT	CCTAC	CCTAG	CCTTA	CCTTT	CCTTC	CCTTG	CCTCA	ССТСТ	сстсс	CCTCG	CCTGA	CCTGT	CCTGC	CCTGG
CCC	CCCAA	CCCAT	CCCAC	CCCAG	CCCTA	CCCTT	CCCTC	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
	CGCAA	CGCAT	CGCAC		CGCTA					CGCCT	CGCCC	CGCCG		CGCGT	CGCGC	
CGC				CGCAG		CGCTT	CGCTC	CGCTG	CGCCA				CGCGA			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		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		GCTAT	GCTAC	GCTAG	GCTTA	GCTTT	GCTTC	GCTTG	GCTCA	GCTCT	GCTCC	GCTCG	GCTGA	GCTGT	GCTGC	GCTGG
	GCCAA	GCCAT	GCCAC		GCCTA					GCCCT	GCCCC		GCCGA		GCCGC	GCCGG
GCC				GCCAG		GCCTT	GCCTC	GCCTG	GCCCA		-	GCCCG		GCCGT		
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
500		_ 000/11	T 000/16	T 000/10	_ 555171	_ 00011	_ 55516	_ 00010	0000/1		_ 00000	_ 00000		_ 00001		

After filtering: read2: overrepresented sequences

overrepresented sequence	count (% of bases)	distribution: cycle 1 ~ cycle 151
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	35 (0.000112%)	
AACCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	22746 (0.072705%)	
AAGATGTGTATAAGAGACAG	302696 (0.483769%)	

ACACACACACACACACACACACACACACACACAA	1073 (0.003430%)	
AC	33137 (0.105919%)	
ACACACACACACACACACACACACACACACACACACAC	149 (0.001191%)	
AC	888 (0.002838%)	
ACACCTGTCTCTTATACACATCTAGATGTGTATAAGAGAC	40743 (0.130231%)	
ACCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	20836 (0.066600%)	
ACCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	1292 (0.004130%)	
ACTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGC	18298 (0.058488%)	
ACTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGG	27074 (0.086539%)	
AG	6127 (0.019584%)	
AGAGATGTGTATAAGAGACA	99966 (0.159766%)	
AGATCGGAAGAGCGTCGTAGGGAAAGAGTGTAGATCTC	10 (0.000032%)	
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTATATCTC	7 (0.000022%)	
AGATGTGTATAAGAGACACACACACACACACACACACACA	14160 (0.045261%)	
AGCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	21882 (0.069944%)	
AGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	59356 (0.189725%)	
AGGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	22267 (0.071174%)	
ATACACATCTAGATGTGTATAAGAGACAGCACACACAC	88 (0.000281%)	
ATACCTGTCTCTTATACACATCTAGATGTGTATAAGAGAC	14525 (0.046428%)	
ATCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	15588 (0.049825%)	
ATCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	42705 (0.136502%)	
ATGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	20903 (0.066814%)	
CACACACACACACACACACACACACACACACACACACA	10031 (0.032063%)	
CACACACACACACACACACACACACACACACACACACA	211 (0.001686%)	
CACCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	16635 (0.053172%)	
CAGATGTGTATAAGAGACAG	191128 (0.305461%)	
CCAGATGTGTATAAGAGACA	96603 (0.154391%)	
CCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	52172 (0.166763%)	
CCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGA	574 (0.001835%)	
CCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGC	1203 (0.003845%)	
CCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGG	1677 (0.005360%)	
CCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGT	294 (0.000940%)	
CTCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	21835 (0.069793%)	
стстстстстстстстстстстстстстст	4560 (0.014576%)	

CTCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	17749 (0.056733%)	
CTCTTATACACATCTAGATGTGTATAAGAGACAGCACACA	48 (0.000153%)	
CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGAA	1175 (0.003756%)	
CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGAC	3094 (0.009890%)	
CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGAG	1509 (0.004823%)	
CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGAT	3592 (0.011481%)	
CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCA	416 (0.001330%)	
CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCC	220 (0.000703%)	
CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCT	233 (0.000745%)	
CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGA	243 (0.000777%)	
CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGC	296 (0.000946%)	
CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGG	268 (0.000857%)	
CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGT	536 (0.001713%)	
CTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGTC	1591 (0.005085%)	
CTGTCTCTTATACACATCTC	314903 (0.503278%)	
CTGTCTCTTATACACATCTG	261585 (0.418065%)	
CTGTCTCTTATACACATCTT	277770 (0.443932%)	
CTTATACACATCTAGATGTGTATAAGAGACAGCACACACA	36 (0.000115%)	
GACCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	22614 (0.072283%)	
GA	5593 (0.017877%)	
GAGATGTGTATAAGAGACAG	110034 (0.175856%)	
GATGTGTATAAGAGACACACACACACACACACACACACAC	121 (0.000387%)	
GCACACACACACACACACACACACACACACACACAC	14317 (0.045763%)	
GCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	45039 (0.143963%)	
GCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGA	2195 (0.007016%)	
GCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGC	4447 (0.014214%)	
GCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGG	6627 (0.021183%)	
GCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGT	1131 (0.003615%)	
GGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	16756 (0.053559%)	
GGGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	20301 (0.064890%)	
GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	8 (0.000026%)	
GTCTCTTATACACATCTAGATGTGTATAAGAGACAGCACA	73 (0.000233%)	
GTCTCTTATACACATCTAGATGTGTATAAGAGACAGGTGT	79 (0.000253%)	

GTCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	34708 (0.110941%)	
GTGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	13003 (0.041563%)	
GTGTGCTGTCTCTTATACACATCTAGATGTGTATAAGAGA	1904 (0.006086%)	
GTGTGTGCTCTCTTATACACATCTAGATGTGTATAAGA	1542 (0.004929%)	
GTGTGTGTGTCTCTTATACACATCTAGATGTGTATAA	2500 (0.007991%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	767 (0.002452%)	
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	21880 (0.069937%)	
TACCTGTCTCTTATACACATCTAGATGTGTATAAGAGACA	14342 (0.045843%)	
TATACACATCTAGATGTGTATAAGAGACAGCACACACACA	58 (0.000185%)	
TCACACACACACACACACACACACACACACACACACAC	11703 (0.037407%)	
TCCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	27686 (0.088495%)	
тстстстстстстстстстстстстстстст	6206 (0.019837%)	
TCTCTTATACACATCTAGATGTGTATAAGAGACAGCACAC	52 (0.000166%)	
TCTCTTATACACATCTAGATGTGTATAAGAGACAGGTGTG	19 (0.000061%)	
TCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGA	156 (0.000499%)	
TCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGC	304 (0.000972%)	
TCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAGG	523 (0.001672%)	
TCTTATACACATCTAGATGTGTATAAGAGACAGCACAC	31 (0.000099%)	
TGAGATGTGTATAAGAGACA	124681 (0.199265%)	
TGCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	24362 (0.077871%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCAC	230 (0.000735%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCAT	95 (0.000304%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCCC	95 (0.000304%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCCT	80 (0.000256%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGCTC	112 (0.000358%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGAG	84 (0.000268%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGCA	68 (0.000217%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGGA	68 (0.000217%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGGC	79 (0.000253%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGGG	90 (0.000288%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGGT	94 (0.000300%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGTA	131 (0.000419%)	

TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGTC	108 (0.000345%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGTG	257 (0.000821%)	
TGTCTCTTATACACATCTAGATGTGTATAAGAGACAGGTT	101 (0.000323%)	
TGTCTCTTATACACATCTCA	738 (0.001179%)	
TGTCTCTTATACACATCTCT	631 (0.001008%)	
TGTCTCTTATACACATCTGG	533 (0.000852%)	
TGTCTCTTATACACATCTGT	551 (0.000881%)	
TGTGCTGTCTCTTATACACATCTAGATGTGTATAAGAGAC	8808 (0.028154%)	
TGTGTGCTGTCTCTTATACACATCTAGATGTGTATAAGAG	3193 (0.010206%)	
TGTGTGTGTCTCTTATACACATCTAGATGTGTATAAG	1418 (0.004532%)	
TGTGTGTGTGTCTCTTATACACATCTAGATGTGTATA	18512 (0.059172%)	
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	29851 (0.095416%)	
TTATACACATCTAGATGTGTATAAGAGACAGCACACAC	43 (0.000137%)	
TTCTGTCTCTTATACACATCTAGATGTGTATAAGAGACAG	14159 (0.045258%)	

fastp -i 10-12kb_S17_L002_R1_001.fastq.gz -I 10-12kb_S17_L002_R2_001.fastq.gz -o MP10k_F.trimmed.fq.gz -0 MP10k_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=MP10k.json --html=MP10k.html --report_title=MP10k --thread=8

fastp 0.19.4, at 2018-10-07 00:09:26