

Rfastp Report

Summary

General

fastp version:	0.21.0 (https://github.com/OpenGene/fastp)
sequencing:	single end (76 cycles)
mean length before filtering:	76bp
mean length after filtering:	73bp
duplication rate:	18.201572% (may be overestimated since this is SE data)
Detected read1 adapter:	AGATCGGAAGAGCACACGTCTGAACTCCAGTCA

Before filtering

total reads:	8.018967 M
total bases:	609.441492 M
Q20 bases:	587.195368 M (96.349752%)
Q30 bases:	550.893157 M (90.393116%)
GC content:	45.518868%

After filtering

total reads:	7.874054 M
total bases:	578.981569 M
Q20 bases:	564.779209 M (97.547010%)
Q30 bases:	531.300484 M (91.764663%)
GC content:	45.211167%

Filtering result

reads passed filters:	7.874054 M (98.192872%)
reads with low quality:	141.565000 K (1.765377%)
reads with too many N:	151 (0.001883%)
reads too short:	3.197000 K (0.039868%)

Adapters

Adapter or bad ligation of read1

Sequence	Occurrences
AGATC	69596
AGATCG	60266
AGATCGG	58882
AGATCGGA	61801
AGATCGGAA	58076
AGATCGGAAG	54686
AGATCGGAAGA	54229
AGATCGGAAGAG	54533
AGATCGGAAGAGC	49850
AGATCGGAAGAGCA	47829
AGATCGGAAGAGCAC	46349
AGATCGGAAGAGCACA	45058

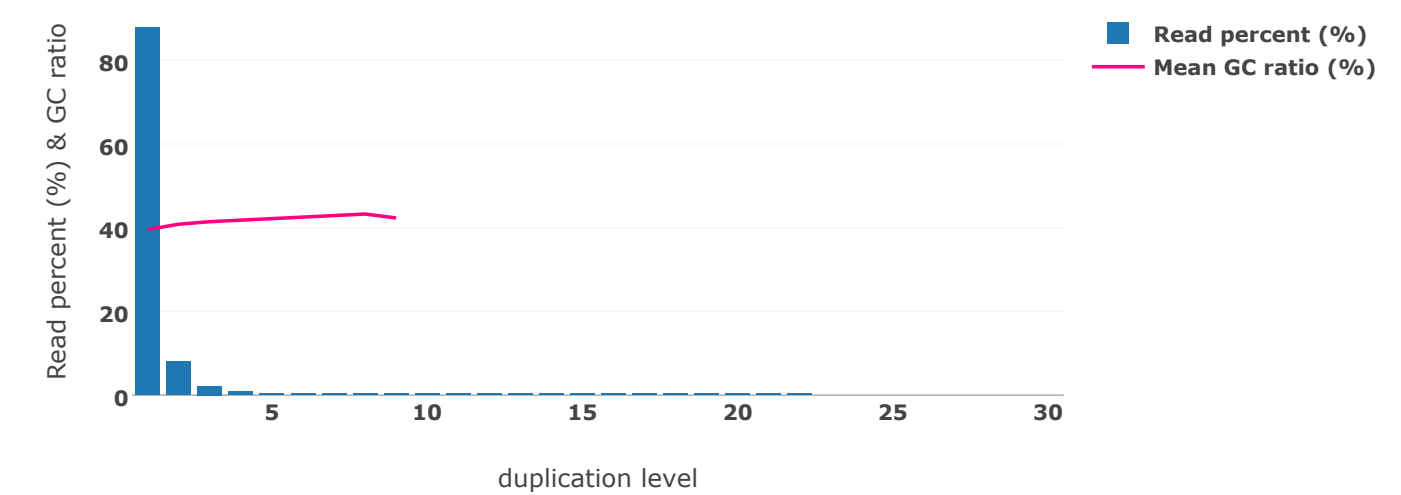
27/07/2022, 00:44

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AGATCGGAAGAGCACAC	43914
AGATCGGAAGAGCACACG	42657
AGATCGGAAGAGCACACGT	39340
AGATCGGAAGAGCACACGTC	38799
AGATCGGAAGAGCACACGTCT	36390
AGATCGGAAGAGCACACGTCTG	33549
AGATCGGAAGAGCACACGTCTGA	30270
AGATCGGAAGAGCACACGTCTGAA	27578
AGATCGGAAGAGCACACGTCTGAAC	25022
AGATCGGAAGAGCACACGTCTGAACT	21888
AGATCGGAAGAGCACACGTCTGAACTC	21046
AGATCGGAAGAGCACACGTCTGAACTCC	19293
AGATCGGAAGAGCACACGTCTGAACTCCA	18988
AGATCGGAAGAGCACACGTCTGAACTCCAG	16536
AGATCGGAAGAGCACACGTCTGAACTCCAGT	13346
AGATCGGAAGAGCACACGTCTGAACTCCAGTC	13950
other adapter sequences	103925

Duplication

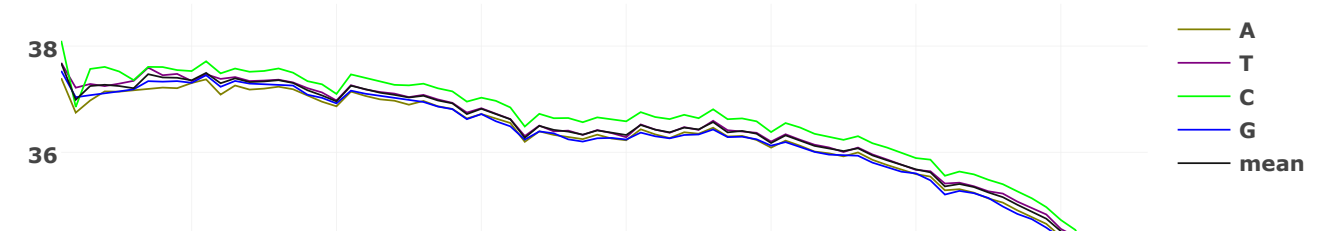
duplication rate (18.201572%)

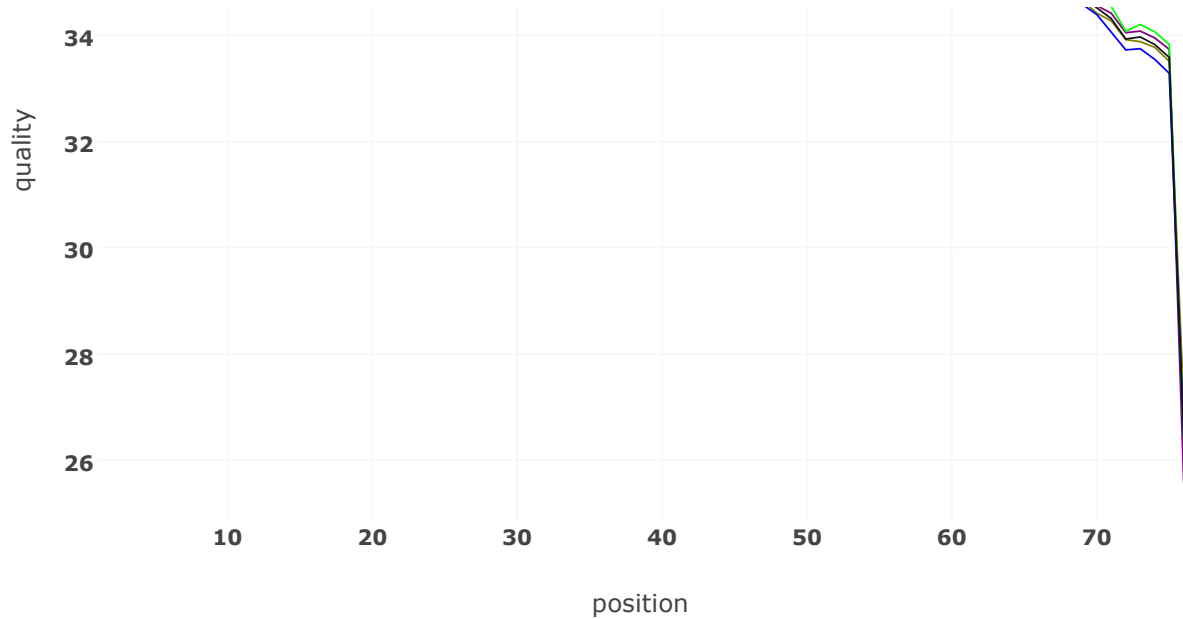


Before filtering

Before filtering: read1: quality

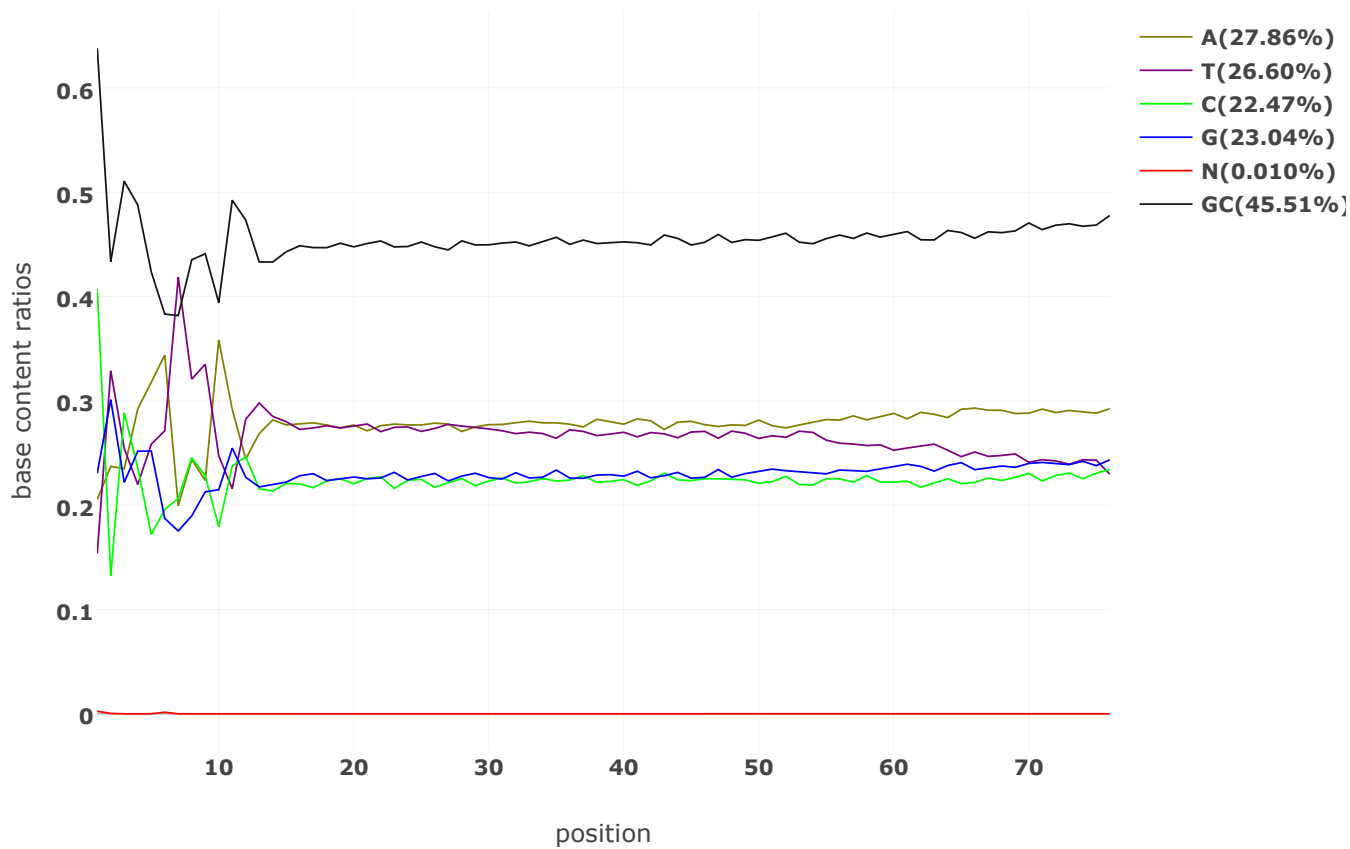
Value of each position will be shown on mouse over.





Before filtering: read1: base contents

Value of each position will be shown on mouse over.



Before filtering: read1: KMER counting

Darkner 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	AAC TT	AAC TC	AAC TG	AAC CA	AAC CT	AAC CC	AAC CG	AAC GA	AAC GT	AAC GC	AAC GG
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	ATT CG	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	ACCGG	ACGGA	ACGGT	ACGGC	ACGGG
AGA	AGAAA	AGAA	AGAAC	AGAG	AGATA	AGATT	AGATC	AGATG	AGACA	AGACT	AGACC	AGACG	AGAGA	AGAGT	AGAGC	AGAGG
AGT	AGTAA	AGTAT	AGTAC	AGTAG	AGTTA	AGTTT	AGTTC	AGTTG	AGTCA	AGCTT	AGTCC	AGTCG	AGTGA	AGGTG	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	TAAATA	TAA	TAA	TAA	TAA	TAA	TAA	TAA	TAA	TAA	TAA	TAA
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
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TTG	TTGAA	TTGAT	TTGAC	TTGAG	TTGTA	TTGTT	TTGTC	TTGTG	TTGCA	TTGCT	TTGCC	TTGCG	TTGGA	TTGGT	TTGGC	TTGGG
TCA	TCAAA	TCAAT	TCAAC	TCAAG	TCATA	TCATT	TCATC	TCATG	TCACA	TCACT	TCACC	TCACG	TCAGA	TCAGT	TCAGC	TCAGG
TCT	TCTAA	TCTAT	TCTAC	TCTAG	TCTTA	TCTTT	TCTTC	TCTTG	TCTCA	TCTCT	TCTCC	TCTCG	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	TGTGG	TGTGA	TGTGT	TGTGC	TGTGG
TGC	TGCAA	TGCAT	TGCAC	TGCAG	TGCTA	TGCTT	TGCTC	TGCTG	TGCCA	TGCTT	TGCCC	TGCCG	TGCCA	TGCGT	TGCCC	TGCCG
TGG	TGAAA	TGGAT	TGGAC	TGGAG	TGGTA	TGGTT	TGGTC	TGGTG	TGGCA	TGGCT	TGGCC	TGGCG	TGGGA	TGGGT	TGGGC	TGGGG
CAA	CAAAA	CAAA	CAAAC	CAAG	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	CAC	CAC	CAC	CAC	CAC	CAC	CAC	CAC	CAC	CAC	CAC	CAC
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
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CTG	CTGAA	CTGAT	CTGAC	CTGAG	CTGTA	CTGTT	CTGTC	CTGTG	CTGCA	CTGCT	CTGCC	CTGCG	CTGGA	CTGGT	CTGGC	CTGGG
CCA	CCAAA	CCAAT	CCAAC	CCAG	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	CCCCA	CCCGT	CCCCC	CCCCG
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	CGCTT	CGTCC	CGTCG	CGTGA	CGGTG	CGTGC	CGTGG
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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	GATATA	GATTT	GATTC	GATTG	GTACA	GTA	GTA	GTA	GTA	GTA	GTA	GTA
GTT	GTTAA	GTTAT	GTTAC	GTTAG	GTTTA	GTTTT	GTTTC	GTTTG	GTTCA	GTTCT	GTTCC	GTTCG	GTTGA	GTTGT	GTTGC	GTTGG
GTC	GTCAA	GTCAT	GTCAC	GTCAG	GTC	GTC	GTC	GTC	GTC	GTC	GTC	GTC	GTC	GTC	GTC	GTC
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	GGA	GGA	GGA	GGA	GGA	GGA	GGA	GGA	GGA	GGA	GGA	GGA	GGA	GGA	GGA	GGA
GGT	GGTAA	GGTAT	GGTAC	GGTAG	GGTTA	GGTTT	GGTTC	GGTTG	GGTCA	GGCTT	GGTCC	GGTCG	GGTGA	GGGTG	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: read1: overrepresented sequences












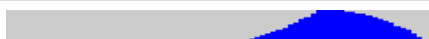


























Sampling rate: 1 / 20







































overrepresented sequence	count (% of bases)	distribution: cycle 1 ~ cycle 76
AAAAAAGATTGCGACCTCGATGTTGGATTAAGATATAATT	130 (0.017065%)	
AAAAAATTAAGTTACTTTAGGGATAACAGCGTAATTTTTTT	194 (0.025466%)	
AAAAACATGCTTTTTGAATTATATATAAAGCTAACCTGCCACTGAAAAATTTTAAATGGCCGCGATATTTTG	413 (0.100295%)	
AAAAAAGATTGCGACCTCGATGTTGGATTAAGATATAATT	15 (0.001969%)	
AAAAATAATATTCGCGTGTTTAACAAAAACATGCTTTTTT	21 (0.002757%)	
AAAAATTAAGTTACTTTAGGGATAACAGCGTAATTTTTTTT	52 (0.006826%)	
AAAAGATTGCGACCTCGATGTTGGATTAAGATATAATTTT	42 (0.005513%)	
AAAAATAATATTCGCGTGTTTAACAAAAACATGCTTTTTTG	19 (0.002494%)	
AAAAATTAAGTTACTTTAGGGATAACAGCGTAATTTTTTTTG	13 (0.001706%)	
AAAAATTTAAATGGCCGCGATTTTGACTGTGCAAGGT	28 (0.003675%)	
AAACCGGTGTAAGCCAGGTTGGTTTCTATCTTTAAAAAAT	30 (0.003938%)	
AAACGAGTGTTATTGTGGCCGGTACTATTACTTTGAACA	6 (0.000788%)	
AAACTAACAGGATTTTCTTAGTAGCGCGAGCGAAAAAGA	9 (0.001181%)	
AAAGAACTAACAGGATTTTCTTAGTAGCGCGAGCGAA	144 (0.018903%)	
AAAGAATTGCGCAAAAAATAATTCGCTGTTTAAACAAAA	460 (0.060383%)	
AAAGATTGCGACCTCGATGTTGGATTAAGATATAATTTTG	29 (0.003807%)	
AAAGGTAGCATAATCATTAGTCTTTTAATTGAAGGCTGGA	12 (0.001575%)	
AAATAATATTCGCTGTTTAAACAAAAACATGCTTTTTTGA	105 (0.013783%)	


AAATGGCCGAGTATTTTGACTGTGCAAGGTAGCATAAT	8 (0.001050%)	
AAATTAAGTTACTTTAGGGATAACAGCGTAATTTTTTTGG	52 (0.006826%)	
AAATTCTTACATGATCTGAGTTCAAACCGGTGAAGCCAG	13 (0.001706%)	
AAATTTTAAATGGCCGAGTATTTTGACTGTGCAAGGTA	24 (0.003150%)	
AACAAAAACATGCTTTTTGAATTATATATAAGTCTAAC	14 (0.001838%)	
AACAGCGTAATTTTTTGGAGAGTTCATATCGATAAAAA	65 (0.008532%)	
AACATAAGTGTTGAAGACAGATTGATAGCTCTTCTCGAA	416 (0.054607%)	
AACCGGTGAAGCCAGGTTGGTTTCTATCTTTAAAAAATT	46 (0.006038%)	
AACGAGTGTTATTGTGGGCCGCTACTATTACTTTGAACAA	17 (0.002232%)	
AACGGCTACCCCAAATTATATCTTAATCCAACATCGAG	317 (0.041612%)	
AAGAACTAACAAGGATTTTCTAGTAGCGCGAGCGAAA	50 (0.006563%)	
AAGAATTCGGCAAAAAATAATTGCGCTGTTTAAACAAAA	97 (0.012733%)	
AAGAATTTAAAGTCGAACAGACTTAAATTTGAACGGCT	26 (0.003413%)	
AAGACAGATTGATAGCTCTTCTCGAATCTATGGTGGTG	28 (0.003675%)	
AAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAG	13 (0.001706%)	
AAGAGCACACGTCTGAATC	18 (0.001181%)	
AAGAGCACACGTCTGAATCCAGTCACTGACCAATCTCGT	6 (0.000788%)	
AAGATATAATTTTGGGTGAGCGGTTCAAATTTTAAGTCT	14 (0.001838%)	
AAGATCGGAAGAGCACACGT	2647 (0.173733%)	
AAGATTGCGACCTCGATGTTGGATTAAAGATATAATTTGG	29 (0.003807%)	
AAGCCAGGTTGGTTTCTATCTTTAAAAATTATGATATT	34 (0.004463%)	
AAGGTAGCATAATCATTAGTCTTTTAAATGAAGCTGGAA	22 (0.002888%)	
AAGTGTTGAAGACAGATTGATAGCTCTTCTCGAATCTAT	9 (0.001181%)	
AATAATATTCGCTGTTTAAACAAAAACATGCTTTTTGAA	11 (0.001444%)	
AATAATGATTAAAAAATAAGTTACTTTAGGGATAACAGC	11 (0.001444%)	
AATCATTAGTCTTTTAATGAAGCTGGAATGAATGGTTG	41 (0.005382%)	
AATGAATGTTGGACGAAATATTAAGTCTTTTAAATGAA	7 (0.000919%)	
AATGATTAAAAAATAAGTTACTTTAGGGATAACAGCGTA	41 (0.005382%)	
AATGGTATGCGTAGAAGTGTGGCGTAAGCTGCTGATGGA	6 (0.000788%)	
AATGGTTGGACGAAATATTAAGTCTTTTAAATGAAATTTT	8 (0.001050%)	
AATTAAGTTACTTTAGGGATAACAGCGTAATTTTTTTGGA	58 (0.007614%)	
AATTAGGGGAGGAAAAAGAACTAACAGGATTTTCTAGT	8 (0.001050%)	
AATTCGGCAAAAAATAATTCGCTGTTTAAACAAAAACAT	13 (0.001706%)	
AATTCTTACATGATCTGAGTTCAAACCGGTGAAGCCAGG	28 (0.003675%)	
AATTTTAAATGGCCGAGTATTTTGACTGTGCAAGGTAG	16 (0.002100%)	
AATTTTAAAGTCTGTTGACTTTTAAATCTTACATGATCT	47 (0.006170%)	
AATTTTGGGTGATGCGGTTCAAATTTTAAAGTCTGTTGAC	14 (0.001838%)	
AATTTTTTTGGAGAGTTCATATCGATAAAAAAGATTGCGA	42 (0.005513%)	
ACAGATCGGAAGAGCACACG		

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	2179 (0.143016%)	
ACCGGTGTAAGCCAGTTGGTTTCTATCTTTAAAAATTA	12 (0.001575%)	
ACCTGCCCACTGAAAAATTTTAAATGGCCGAGTATTTTGA	746 (0.097926%)	
ACCTTTGCACAGTCAAAATACTGCGCCATTAAAAATTTT	11 (0.001444%)	
ACGGCTACACCCAAAATATATCTTAATCCAACATCGAGG	46 (0.006038%)	
ACTGAAAATTTTAAATGGCCGAGTATTTTGACTGTGCAA	10 (0.001313%)	
ACTGTGCAAAGGTAGCATAATCATTAGTCTTTTAATTGAA	13 (0.001706%)	
ACTTTGAACAAATTAGAGTGTCTAAAGCAGGCTTCAAATG	8 (0.001050%)	
AGAAATAACAAGGATTTCTTAGTAGCGCGAGCGAAAA	17 (0.002232%)	
AGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAG	18 (0.002363%)	
AGAATTCGGCAAAAATAATATTCGCCTGTTTACAAAAAC	9 (0.001181%)	
AGAATTTAAAGTCGAACAGACTTAAATTTGAACGGCTA	11 (0.001444%)	
AGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGA	23 (0.003019%)	
AGAGATCGGAAGAGCACACG	3549 (0.232935%)	
AGAGCACACGTCTGAACCTC	19 (0.001247%)	
AGAGTTCATATCGATAAAAAAGATTGCGACCTCGATGTTG	19 (0.002494%)	
AGATCATGTAAGAATTTAAAGTCGAACAGACTTAAATTT	13 (0.001706%)	
AGATTGATAGCTCTTCTCGAATCTATGGTGGTGGTGCA	12 (0.001575%)	
AGCATAATCATTAGTCTTTTAATTGAAGGCTGGAATGAAT	38 (0.004988%)	
AGCCAGGTGGTTCTATCTTTAAAAAATTATGATATTTT	11 (0.001444%)	
AGCCGTTCAAATTTTAAGTCTGTTGCACTTTTAAATCTT	97 (0.012733%)	
AGCGTAATTTTTTTGGAGAGTTATATCGATAAAAAAGAT	45 (0.005907%)	
AGCTTTTGGACTAAAAATAAAATCTATAAAAAATTTTAA	100 (0.013127%)	
AGGGATAACAGCGTAATTTTTTTGGAGAGTTATATCGAT	8 (0.001050%)	
AGGTAGCATAATCATTAGTCTTTTAATTGAAGGCTGGAAT	14 (0.001838%)	
AGGTCGCAATCTTTTTATCGATATGAACCTCCAAAAAA	665 (0.087293%)	
AGTATTTTGACTGTGCAAGGTAGCATAATCATTAGTCTT	139 (0.018246%)	
AGTCAAAATACTGCGCCATTTAAATTTTCAGTGGGCAG	6 (0.000788%)	
AGTGTGTAAGACAGATTGATAGCTCTTCTCGAATCTATG	8 (0.001050%)	
AGTTCAAACCGGTGTAAGCCAGGTGGTTCTATCTTTAA	7 (0.000919%)	
AGTTCATATCGATAAAAAAGATTGCGACCTCGATGTTGGA	29 (0.003807%)	
ATAAAAAAGATTGCGACCTCGATGTTGGATTAAGATATAA	16 (0.002100%)	
ATAACAGCGTAATTTTTTTGGAGAGTTATATCGATAAAA	23 (0.003019%)	
ATAAGTGTGTAAGACAGATTGATAGCTCTTCTCGAATCT	17 (0.002232%)	
ATAATATTCGCCTGTTTAAACAAAACATGTCTTTTGAAT	107 (0.014046%)	
ATAATCATTAGTCTTTTAATTGAAGGCTGGAATGAATGGT	18 (0.002363%)	
ATAATGATTAAAAAATTAAGTTACTTTAGGATAACAGCG	19 (0.002494%)	
ATAATTTTGGGTAGCGGTTCAAATTTTAAAGTCTGTTG	84 (0.011026%)	
ATATAATTTTGGGTAGCGGTTCAAATTTTAAAGTCTGTT		














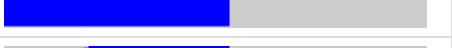
























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	27 (0.003544%)	
ATATCGATAAAAAAGATTGCGACCTCGATGTTGGATTAAG	8 (0.001050%)	
ATATTGCGCTGTTTAACAAAAACATGCTTTTTGAATTAT	9 (0.001181%)	
ATCATGTAAGAATTTAAAGTCGAACAGACTTAAATTTG	11 (0.001444%)	
ATCATTAGTCTTTTAATTGAAGCTGGAATGAATGGTTGG	41 (0.005382%)	
ATCGATAAAAAAGATTGCGACCTCGATGTTGGATTAAGAT	78 (0.010239%)	
ATCGGAAGAGCACAGCTCG	121 (0.007942%)	
ATCGGAATTAACCAGACAATCACTCCAGCACTAAGAAC	19 (0.002494%)	
ATCTGAGTTCAAACGGTGAAGCCAGGTGGTTTCTATC	17 (0.002232%)	
ATGAATGGTTGGACGAAATATTAAGTGTTCATTAAAAAT	11 (0.001444%)	
ATGATTAAAAATTAAGTTACTTTAGGGATAACAGCGTAA	17 (0.002232%)	
ATGGTTATATTTAGTTTTAGATGGAGTTTACCACCACTT	9 (0.001181%)	
ATTAAAAATTAAGTTACTTTAGGGATAACAGCGTAATTT	9 (0.001181%)	
ATTAAGATATAATTTGGGTGAGCCGTCAAATTTAAG	12 (0.001575%)	
ATTAAGTTACTTTAGGGATAACAGCGTAATTTTTTGGAG	20 (0.002625%)	
ATTAATAATGATTAAAAATTAAGTTACTTTAGGGATAAC	90 (0.011814%)	
ATTAATTAGGGGAGAAAAGAACTAACAAGGATTTTCTT	25 (0.003282%)	
ATTACTTTGAACAAATTAGAGTGCTTAAAGCAGGCTTCAA	76 (0.009976%)	
ATTAGAGTGCTTAAAGCAGGCTTCAAATGCTGAATATTC	39 (0.005119%)	
ATTAGTCTTTTAATTGAAGGCTGGAATGAATGGTTGGACG	17 (0.002232%)	
ATTCGATTATTTGCTACTACCACCAAGATCTGTACCAATG	9 (0.001181%)	
ATTCGCTGTTTAACAAAAACATGCTTTTTGAATTATAT	16 (0.002100%)	
ATTCGGCAAAAAATATATTCGCTGTTTAACAAAAACATG	27 (0.003544%)	
ATTCTTACATGATCTGAGTTCAAACCGGTGAAGCCAGGT	28 (0.003675%)	
ATTGAAGGCTGGAATGAATGGTTGGACGAAATATAACTG	9 (0.001181%)	
ATTGATAGTCTTTCTCGAATCTATGGGTGGTGGCATG	7 (0.000919%)	
ATTGCAGTCCAGCACGGATACGACCTTAGAGCGTTCAGG	10 (0.001313%)	
ATTGCGACCTCGATGTTGGATTAAGATATAATTTTGGGTG	7 (0.000919%)	
ATTGTGGGCGGTACTATTACTTTTGAACAATAGAGTGC	8 (0.001050%)	
ATTTAGTTTTAGATGGAGTTTACCACCACTTAGTGCTGC	10 (0.001313%)	
ATTTTAAATGGCCGAGTATTTTGACTGTGCAAGGTAGC	145 (0.019034%)	
ATTTTAAGTCTGTTGACTTTTAAATCTTACATGATCTG	130 (0.017065%)	
ATTTTAGCTTTTGTACTAAAAATAAAATCTATAAAAAAT	13 (0.001706%)	
ATTTTCTTAGTAGCGGCGAGCGAAAAGAAACAGTTACGC	6 (0.000788%)	
ATTTTGACTGTGCAAGGTAGCATAATCATTAGTCTTTTA	377 (0.049488%)	
ATTTTGGGTGTAGCGGTTCAAATTTTAAGTCTGTTCGACT	6 (0.000788%)	
ATTTTTTGGAGAGTTCATATCGATAAAAAAGATTGCGAC	79 (0.010370%)	
CAAAAACATGCTTTTTTGAATTATATATAAAGTCTAACCT	378 (0.049619%)	
CAAAAATAATATTCGCTGTTTAACAAAAACATGCTTTT		



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	65 (0.008532%)	
CAAACCGGTGTAAGCCAGGTTGGTTTCTATCTTTAAAAAA	13 (0.001706%)	
CAAAGGTAGCATAATCATTAGTCTTTTAAATGAAGGCTGG	16 (0.002100%)	
CAAATTAGAGTGCTTAAAGCAGGCTTCAAATGCCTGAATA	11 (0.001444%)	
CAAATTTTAAGTCTGTCGACTTTTAAATCTTACATGAT	14 (0.001838%)	
CAATGGTATGCGTAGAAGTGTGGCGTAAGCCTGCATGG	434 (0.056970%)	
CACAGTCAAAATACTGCGGCCATTTAAATTTTCAGTGGG	35 (0.004594%)	
CACCCACTTAGTGTGCACTATCAAGCAACAGCAGCTCTTT	12 (0.001575%)	
CACTGAAAAATTTTAAATGGCCGAGTATTTTGACTGTGCA	11 (0.001444%)	
CACTTCAGTCTCCAAGGTCTCATTGATTATTTGCTACT	6 (0.000788%)	
CAGATCATGTAAGAATTTAAAGTGAACAGACTTAAAT	11 (0.001444%)	
CAGATCGGAAGAGCACCGT	2379 (0.156143%)	
CAGATTGATAGTCTTTCTCGAATCTATGGGTGGTGGTC	28 (0.003675%)	
CAGCGTAATTTTTTGGAGAGTTCATATCGATAAAAAAGA	68 (0.008926%)	
CAGTATTTTGACTGTGCAAGGTAGCATAATCATTAGTCT	28 (0.003675%)	
CAGTCTCCAAGGTCTCATTGATTATTTGCTACTACCAC	13 (0.001706%)	
CATAAGTGTGTAAGACAGATTGATAGTCTTTCTCGAATC	39 (0.005119%)	
CATAATCATTAGTCTTTTAAATGAAGCTGGAATGAATGG	41 (0.005382%)	
CATATCGATAAAAAAGATTGCGACCTCGATGTTGGATTAA	18 (0.002363%)	
CATGATCTGAGTTCAAACCGGTGTAAGCCAGGTGGTTTC	25 (0.003282%)	
CATGGTTATATTAGTTTTAGATGGAGTTACCACCCACT	42 (0.005513%)	
CATTAATAATGATTAATAAATAAGTTACTTTAGGGATAA	354 (0.046469%)	
CATTAGTCTTTTAAATGAAGCTGGAATGAATGTTGGAC	26 (0.003413%)	
CATTGATTATTTGCTACTACCACCAAGATCTGTACCAAT	9 (0.001181%)	
CCAAGGTCTCATTGATTATTTGCTACTACCACCAAGATC	13 (0.001706%)	
CCACTGAAAAATTTTAAATGGCCGAGTATTTTGACTGTGC	6 (0.000788%)	
CCACTTCAGTCTCCAAGGTCTCATTGATTATTTGCTAC	390 (0.051194%)	
CCAGGTGGTTTCTATCTTTAAAAAATATGATATTTTAG	8 (0.001050%)	
CCCAAAGTCTTCTATTAATCATTACCTCTTGATCTGAAACCAATGAAAGCAGAACAGAGGTCTTATTT CATT	269 (0.065325%)	
CCCCTGAAAAATTTTAAATGGCCGAGTATTTTGACTGTG	10 (0.001313%)	
CCCCAACTGCTTCTATTAATCATTACCTCTTGATCTGAA	287 (0.037674%)	
CCGGTGTAGCCAGGTTGGTTTCTATCTTTAAAAAATTAT	16 (0.002100%)	
CCTCAAGGTCTCATTGATTATTTGCTACTACCACCAAG	14 (0.001838%)	
CCTCGATGTTGGATTAAGATATAATTTGGGTAGCCGT	83 (0.010895%)	
CCTGCCACTGAAAAATTTTAAATGGCCGAGTATTTTGAC	7 (0.000919%)	
CCTGTTTAACAAAAACATGCTTTTGAATTATATATAAA	8 (0.001050%)	
CCTTATTTATCATTGAGTCCAGCACGGATACGACCTTAG	342 (0.044894%)	
CCTTTGCACAGTCAAAATACTGCGGCCATTTAAATTTTC	117 (0.015358%)	
CGACCTCGATGTTGGATTAAGATATAATTTGGGTGTAGC		


























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	9 (0.001181%)	
CGAGATCGGAAGAGCACACG	2038 (0.133762%)	
CGAGTGTATTGTGGGCCGGTACTATTACTTTGAACAAAT	6 (0.000788%)	
CGATAAAAAAGATTGCGACCTCGATGTTGATTAAAGATAT	222 (0.029141%)	
CGATGTTGGATTAAAGATATAATTTTGGGTGAGCCGTTCA	63 (0.008270%)	
CGATTATTGTCTACTACCACCAAGATCTGTACCAATGGCA	9 (0.001181%)	
CGCAGATTTTGACTGTGCAAGGTAGCATAATCATTAGT	16 (0.002100%)	
CGCCTGTTTAAACAAAAACATGCTTTTTGAATTATATATA	43 (0.005645%)	
CGCCTTCGAACCTCTAACTTTCTGTTCTTGATTAAATGAAAA	8 (0.001050%)	
CGGAAGAGCACACGCTGAA	51 (0.003347%)	
CGGCCATTTAAAAATTTTCAGTGGGCAGGTTAGACTTTATA	44 (0.005776%)	
CGGCTACCCCAAAATTATATCTTAATCCAACATCGAGGTCGCAATCTTTTTATCGATATGAACCTCCAAAA	277 (0.067268%)	
CGGTACTATTACTTTGAACAAATTAGAGTGCTTAAAGCAG	8 (0.001050%)	
CGTAATTTTTTGGAGAGTTCATATCGATAAAAAAGATTG	86 (0.011289%)	
CGTCCAACCATTATTCCAGCCTTCAATTAAGACTAAT	499 (0.065503%)	
CGTCTTTTAAATAAATTTTAGCTTTTGTACTAAAAATAA	56 (0.007351%)	
CGTTATCGGAATTAACCAGACAAATCACTCCAGCACTAA	32 (0.004201%)	
CGTTCAAATTTTAAGTCTGTTGCACTTTTAAATCTTACA	14 (0.001838%)	
CGTTCGTTATCGGAATTAACCAGACAAATCACTCCAGCAA	459 (0.060252%)	
CGTTTATGGTTAGAAGTAGGGCGGTATCTGATCGCCTTCG	451 (0.059202%)	
CTACCTTGCACAGTCAAAATACTGCGCCATTTAAAAAT	155 (0.020346%)	
CTATTACTTTGAACAAATTAGAGTGCTTAAAGCAGGCTTC	33 (0.004332%)	
CTCAGATCATGTAAGAATTTAAAGTGAACAGACTTAAA	125 (0.016408%)	
CTCATGGTTATATTTAGTTTTAGATGGAGTTACCACCCA	277 (0.036361%)	
CTCATTGATATTTTGTCTACTACCACCAAGATCTGTACCA	22 (0.002888%)	
CTCCAAGGTCTCATTGATTATTTGTCTACTACCACCAAGA	84 (0.011026%)	
CTCCACGAACTAAGAACGGCCATGCACCACCACCATAGA	6 (0.000788%)	
CTCGATGTTGGATTAAAGATATAATTTTGGGTGAGCCGTT	56 (0.007351%)	
CTCGTCTTTTAAATAAATTTTAGCTTTTGTACTAAAAAT	354 (0.046469%)	
CTGAAAATTTTAAATGGCCGAGTATTTTGTACTGTGCAAA	57 (0.007482%)	
CTGCCCACTGAAAATTTTAAATGGCCGAGTATTTTGTACT	7 (0.000919%)	
CTGGAATGAATGGTTGGACGAAATATTAAGTCTTTCATT	40 (0.005251%)	
CTGTGCAAAGGTAGCATAATCATTAGTCTTTTAAATGAAG	7 (0.000919%)	
CTGTTTAACAAAAACATGCTTTTTGAATTATATATAAAG	9 (0.001181%)	
CTTACATGATCTGAGTTCAACCGGTGTAAGCCAGGTTGG	28 (0.003675%)	
CTTATTATCATTGCAGTCCAGCAGGATACGACCTTAGA	111 (0.014571%)	
CTTCAGTCTCCAAGGTCTCATTGATTATTTGTACTACTAC	18 (0.002363%)	
CTTCTCGTCTTTTAAATAAATTTTAGCTTTTGTACTAAAA	143 (0.018771%)	
CTTTAGGGATAACAGCGTAATTTTTTGGAGAGTTCATAT		

	32 (0.004201%)	
CTTTGAACAAATTAGAGTGCTTAAAGCAGGCTTCAAATGC	41 (0.005382%)	
CTTTGCACAGTCAAAATACTGCGGCATTAAAAATTTTCA	68 (0.008926%)	
CTTTTAAATAATTTTAGCTTTTACTAAAAATAAAAT	55 (0.007220%)	
CTTTTAAATTTTACATGATCTGAGTTCAAACCGGTGTA	181 (0.023759%)	
CTTTTAATTGAAGGCTGGAATGAATGGTTGGACGAAATAT	19 (0.002494%)	
CTTTTGTACTAAAAATAAAATTTCTATAAAATTTTAAAT	13 (0.001706%)	
GAAAAATTTTAAATGGCCGAGTATTTTGTACTGTGCAAGG	127 (0.016671%)	
GAAACTAACAGGATTTTCTTAGTAGCGGCGAGCGAAAAG	6 (0.000788%)	
GAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGA	11 (0.001444%)	
GAAGAGCACACGCTGAACT	273 (0.017918%)	
GAAGAGCACACGCTGAACTCCAGTCACTGACCAATCTCG	425 (0.055789%)	
GAATGGTTGGACGAAATTAATACTGTTTCATTTAAATTT	11 (0.001444%)	
GAATTCGGCAAAAATAATATTCGCCTGTTAACAAAAACA	19 (0.002494%)	
GACAGATTGATGCTCTTCTCGAATCTATGGGTGGTGGT	18 (0.002363%)	
GACTGTGCAAAGGTAGCATAATCATTAGTCTTTTAATTGA	6 (0.000788%)	
GAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAA	20 (0.002625%)	
GAGATCGGAAGAGCACACGT	3262 (0.214098%)	
GATAAAAAAGATTGCGACCTCGATGTTGGATTAAGATATA	24 (0.003150%)	
GATCATGTAAGAATTTAAAGTCGAACAGACTTAAATTT	11 (0.001444%)	
GATCGGAAGAGCACACGTCT	141 (0.009254%)	
GATTAAAAAATTAAGTTACTTTAGGATAACAGCGTAATT	12 (0.001575%)	
GATTAAGATATAATTTTGGGTAGCCGTTCAAATTTTAA	9 (0.001181%)	
GATTGATAGCTCTTCTCGAATCTATGGGTGGTGGTCAT	10 (0.001313%)	
GCAAAAATAATATTGCCTGTTTAACAAAAACATGTCTTT	11 (0.001444%)	
GCAAAGGTAGCATAATCATTAGTCTTTTAATTGAAGGCTG	8 (0.001050%)	
GCACAGTCAAAATACTGCGGCATTAAAAATTTTCAGTGG	17 (0.002232%)	
GCAGTATTTTACTGTGCAAGGTAGCATAATCATTAGTC	9 (0.001181%)	
GCATAATCATTAGTCTTTTAATTGAAGGCTGGAATGAATG	10 (0.001313%)	
GCCAGGTGGTTTCTATCTTTAAAAAATTATGATATTTTA	9 (0.001181%)	
GCCATTTAAAAATTTTCAGTGGGAGGTAGACTTTATATA	7 (0.000919%)	
GCCCACTGAAAAATTTTAAATGCCGAGTATTTTGTACTGT	14 (0.001838%)	
GCCGTTCAAATTTTAAAGTCTGTTGCACTTTTAAATCTTA	28 (0.003675%)	
GCCTGTTTAACAAAAACATGTCTTTTGAATTATATATAA	7 (0.000919%)	
GCGGCCATTTAAAAATTTTCAGTGGGAGGTAGACTTTAT	8 (0.001050%)	
GCGTAATTTTTTTGGAGAGTTTCATATCGATAAAAAAGATT	19 (0.002494%)	
GCTACCTTTGCACAGTCAAAATACTGCGGCATTTAAAT	216 (0.028354%)	
GCTGGAATGAATGGTTGGACGAAATTAATACTGTTTCATT	12 (0.001575%)	
GCTTTTGTACTAAAAATAAAATTTCTATAAAAAATTTTAA		

	12 (0.001575%)	
GGAAGAGCACACGCTGAAC	30 (0.001969%)	
GGAATGAATGGTTGGACGAAATATTAAGTTCATTTAA	11 (0.001444%)	
GGAGAGTTCATATCGATAAAAAAGATTGCGACCTCGATGT	7 (0.000919%)	
GGATAACAGCGTAATTTTTTGGAGAGTTCATATCGATAA	31 (0.004069%)	
GGATTAAGATATAATTTTGGGTGTAGCCGTTCAAAATTTTA	8 (0.001050%)	
GGATTTTCTTAGTAGCGGCGAGCGAAAAAGAAACAGTTCA	9 (0.001181%)	
GGCAAAAAATAATTCGCCTGTTTAACAAAAACATGTCTT	16 (0.002100%)	
GGCCATTTAAAAATTTTCAGTGGCGAGGTAGACTTTATAT	25 (0.003282%)	
GGCCGCAGTATTTTGACTGTGCAAGGTAGCATAATCATT	11 (0.001444%)	
GGCCGGTACTATTACTTTGAACAAATTAGAGTGCTTAAAG	6 (0.000788%)	
GGCGGTATCTGATCGCCTCGAACCTCTAACTTCGTCTCT	28 (0.003675%)	
GGCTACACCCAAAATTATATCTTAATCCAACATCGAGGTGCGAATCTTTTTATCGATATGAACCTCTCCA AAAA	42 (0.010200%)	
GGGATAACAGCGTAATTTTTTGGAGAGTTCATATCGATA	41 (0.005382%)	
GGGCCGGTACTATTACTTTGAACAAATTAGAGTCTTAA	27 (0.003544%)	
GGTACTATTACTTTGAACAAATTAGAGTGCTTAAAGCAGG	7 (0.000919%)	
GGTAGCATAATCATTAGTCTTTTAATTGAAGGCTGGAATG	9 (0.001181%)	
GGTTGGACGAAATATTAAGTCTTTTCAATTTAAATTTTTAT	11 (0.001444%)	
GTAAGAATTTAAAAGTCGAACAGACTTAAATTTGAACGG	18 (0.002363%)	
GTAAGCCAGGTGGTTTCTATCTTTAAAAAATTATGATAT	8 (0.001050%)	
GTAATTTTTTTGGAGAGTTCATATCGATAAAAAAGATTGC	149 (0.019559%)	
GTAATACTTTTGAACAAATTAGAGTGCTTAAAGCAGGC	15 (0.001969%)	
GTAGCATAATCATTAGTCTTTTAATTGAAGGCTGGAATGA	13 (0.001706%)	
GTATTTTGACTGTGCAAGGTAGCATAATCATTAGTCTTT	82 (0.010764%)	
GTCAAAATCTGCGCCATTTAAATTTTCAGTGGCGAGG	7 (0.000919%)	
GTCCAACCATTCATCCAGCCTCAATTAAGAGCTAATGATTATGCTACCTTTGCACAGTCAAAATCT GCGG	515 (0.125065%)	
GTCCTCCAAGGTCTCATTGATTATTGCTACTACCA	24 (0.003150%)	
GTCCTTTCGTAATAATATCATAATTTTTTAAAGATAGAAACCACTGGCTTACACGGTTGAAGTC AGAT	862 (0.209333%)	
GTCTCATTGATTATTGCTACTACCAAGATCTGTAC	32 (0.004201%)	
GTCTTCTGCTCTTTTAAATAAATTTTGAATTTTGAATTA	482 (0.063271%)	
GTCTTTTAAATAAATTTTAGCTTTTGAATTTTGAATTTT	10 (0.001313%)	
GTCTTTTAAATTGAAGGCTGGAATGAATGGTTGGACGAAAT	38 (0.004988%)	
GTGCAAGGTAGCATAATCATTAGTCTTTTAAATTGAAGGC	7 (0.000919%)	
GTGTAAGACAGATTGATAGCTCTTCTCGAATCTATGGGT	18 (0.002363%)	
GTGTAAGCCAGGTGGTTTCTATCTTTAAAAAATTATGAT	6 (0.000788%)	
GTGTGAAGACAGATTGATAGCTCTTCTCGAATCTATGG	6 (0.000788%)	
GTGTTATTGGGCCGTACTATTACTTTGAACAAATTAG	14 (0.001838%)	
GTTACTTTAGGGATAACAGCGTAATTTTTTGGAGAGTTC	35 (0.004594%)	
GTTAGAACTAGGGCGGTATCTGATCGCCTCGAACCTCTA		

	6 (0.000788%)	
GTTATATTTAGTTTTAGATGGAGTTTACCACCCACTAGT	82 (0.010764%)	
GTTATCGGAATTAACCAGACAAATCACTCCACGAACTAAG	10 (0.001313%)	
GTTATTGTGGCCGGTACTATTACTTTGAACAAATTAGAG	16 (0.002100%)	
GTTCAAACCGGTGTAAGCCAGGTGGTTTCTATCTTTAA	71 (0.009320%)	
GTTCAAATTTTAAGCTGTTCGACTTTTAAATCTTACAT	41 (0.005382%)	
GTTCATATCGATAAAAAAGATTGCGACCTCGATGTTGGAT	119 (0.015621%)	
GTTGTTATCGGAATTAACCAGACAAATCACTCCACGAAC	95 (0.012470%)	
GTTGGACGAAATTAATCTGTTTCATTTAAAAATTTTATA	8 (0.001050%)	
GTTGGATTAAGATATAATTTTGGGTGAGCGTTCAAATT	23 (0.003019%)	
GTTTAACAAAAACATGTCCTTTTGAATTATATATAAAGTC	44 (0.005776%)	
GTTTATGGTTAGAAGTACGGCGGTATCGATCGCCTTCGA	27 (0.003544%)	
GTTTGAAGTCAGATCATGTAAGAATTTAAAGTCGAACAG	368 (0.048307%)	
TAAAAAGATTGCGACCTCGATGTTGGATTAAGATATAAT	11 (0.001444%)	
TAAAAATTAAGTTACTTTTAGGATAACAGCGTAATTTTT	52 (0.006826%)	
TAAATGCCCGCAGTATTTTGACTGTGCAAGGTAGCATAA	14 (0.001838%)	
TAAATCTTACATGATCTGAGTTCAAACCGGTGAAGCCA	23 (0.003019%)	
TAACAGCGTAATTTTGGAGAGTTCATATCGATAAAAA	101 (0.013258%)	
TAAGAATTTAAAGTCGAACAGACTTAAATTTGAACGGC	35 (0.004594%)	
TAAGTCTGTCGACTTTTAAATCTTACATGATCTGAGTT	7 (0.000919%)	
TAAGTGTGTAAGACAGATTGATAGCTCTTCTCGAATCTA	30 (0.003938%)	
TAATAATGATTAAAAAATTAAGTTACTTTAGGATAACAG	8 (0.001050%)	
TAATATTGCTGTTTAAACAAAACATGCTTTTTGAATT	8 (0.001050%)	
TAATCATTAGTCTTTTAAATGAAGGCTGGAATGAATGGTT	25 (0.003282%)	
TAATGATTAAAAAATTAAGTTACTTTAGGATAACAGCGT	52 (0.006826%)	
TAATGATTATGCTACCTTTGCACAGTCAAAATACTGCGGC	747 (0.098057%)	
TAATTTTGGGTGAGCGTTCAAATTTAAGTCTGTTTCTGA	10 (0.001313%)	
TAATTTTTTTGGAGAGTTCATATCGATAAAAAAGATTGCG	29 (0.003807%)	
TACCTTTGCACAGTCAAAATACTGCGGCCATTTAAAAATT	83 (0.010895%)	
TAGATCGGAAGAGCACAGT	3520 (0.231031%)	
TAGCATAATCATTAGTCTTTTAAATTGAAGGCTGGAATGAA	9 (0.001181%)	
TAGCCGTTCAAATTTTAAAGTCTGTTGACTTTTAAATCT	15 (0.001969%)	
TAGCTTTTTGACTAAAAATAAAATCTATAAAAAATTTTA	17 (0.002232%)	
TAGGGATAACAGCGTAATTTTTTTGGAGAGTTCATATCGA	22 (0.002888%)	
TATAATTTTGGGTGAGCGGTTCAAATTTTAAAGTCTGTTT	7 (0.000919%)	
TATCGATAAAAAAGATTGCGACCTCGATGTTGGATTAAGA	23 (0.003019%)	
TATTAATTAGGGGAGGAAAGAACTAACAGGATTTTCT	374 (0.049094%)	
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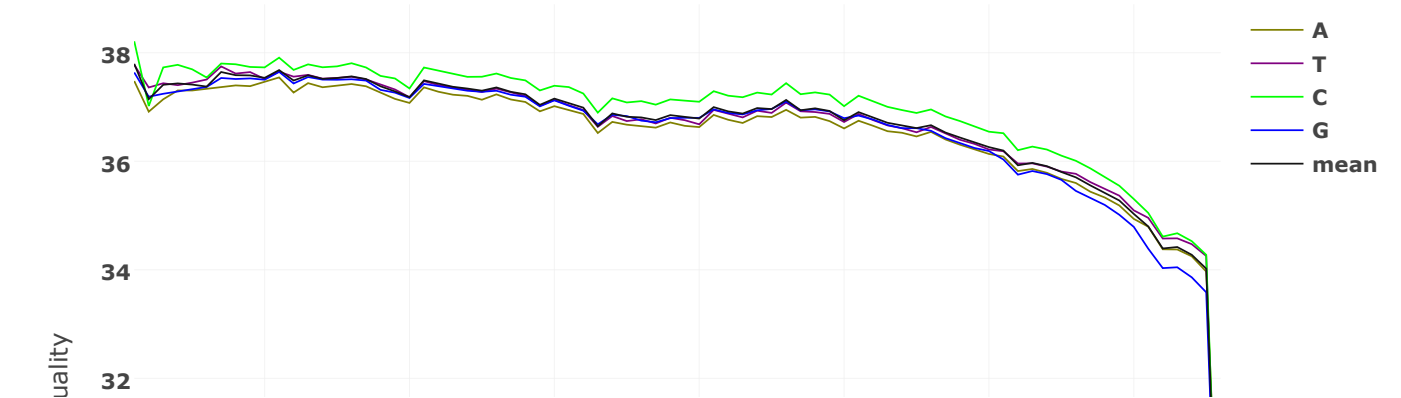
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TCATGGTTATATTTAGTTTTAGATGGAGTTTACCACCCAC	6 (0.000788%)	
TCATTAGTCTTTAATTGAAGGCTGGAATGAATGGTTGGA	6 (0.000788%)	
TCCAAGGTCTCATTGATTATTTGCTACTACCACCAAGAT	6 (0.000788%)	
TCCTTTCTGACTAAAAATATCATAATTTTTTAAAGATAGAAACCAACCTGGCTTACACCGTTTGAACCTCAGATC	34 (0.008257%)	
TCGATAAAAAAGATTGCGACCTCGATGTTGGATTAAGATA	10 (0.001313%)	
TCGATGTTGGATTAAGATATAATTTGGGTGTAGCCGTTT	9 (0.001181%)	
TCGCCTTCGAACCTCTAAGTTTCTGTTCTTGATTAATGAAA	14 (0.001838%)	
TCGGAAGAGCACACGTCTGA	30 (0.001969%)	
TCGGAATTAACCCAGACAAATCACTCCACGAACCTAAGAACG	7 (0.000919%)	
TCGTTATCGGAATTAACCCAGACAAATCACTCCACGAACCTA	6 (0.000788%)	
TCTCGTCTTTTAAATAAATTTAGCTTTTGGTAAAAAA	6 (0.000788%)	
TGAAAAATTTTAAATGGCCGAGTATTTTGGTGTGCAAG	190 (0.024941%)	
TGAACTCAGATCATGTAAGATTTTAAAGTCGAACAGACT	9 (0.001181%)	
TGAAGGCTGGAATGAATGGTTGGACGAAATTAAGTGT	12 (0.001575%)	
TGAATGGTTGGACGAAATTAAGTGTTCATTAAATTT	6 (0.000788%)	
TGACTGTGCAAGGTAGCATAATCATTAGTCTTTTAAATG	60 (0.007876%)	
TGAGTTCAAACCGGTGAAGCCAGGTGGTTCTATCTTT	165 (0.021659%)	
TGATTAATAAATTAAGTTACTTTAGGGATAACAGCGTAAT	22 (0.002888%)	
TGCAAGGTAGCATAATCATTAGTCTTTTAAATGAAGGCT	27 (0.003544%)	
TGCACAGTCAAAATACTGCGGCCATTAAAAATTTTCACTG	10 (0.001313%)	
TGCCCACTGAAAAATTTTAAATGGCCGAGTATTTTGGTGTG	51 (0.006695%)	
TGCGACCTCGATGTTGGATTAAGATATAATTTGGGTGTA	16 (0.002100%)	
TGCGGCCATTTAAAAATTTTCACTGGGCGAGTTAGACTTTA	10 (0.001313%)	
TGGAATGAATGGTTGGACGAAATTAAGTGTTCATTTA	14 (0.001838%)	
TGGAGAGTTCATATCGATAAAAAAGATTGCGACCTCGATG	10 (0.001313%)	
TGGCCGAGTATTTTGGTGTGCAAGGTAGCATAATCAT	11 (0.001444%)	
TGGGTGTAGCCGTTCAAATTTTAAAGTCTGTTCGACTTTTA	7 (0.000919%)	
TGGTTATATTTAGTTTTAGATGGAGTTTACCACCCACTTA	10 (0.001313%)	
TGTAAGACAGATTGATAGTCTTTCTCGAATCTATGGGTG	6 (0.000788%)	
TTAAAAATTAAGTTACTTTAGGGATAACAGCGTAATTTT	6 (0.000788%)	
TTAAACGAGTGTATTGTGGCCGGTACTATTACTTTGAA	358 (0.046994%)	
TTAAATTCCTACATGATCTGAGTTCAAACCGGTGAAGCC	17 (0.002232%)	
TTAAGATATAATTTGGGTGTAGCCGTTCAAATTTTAAAGT	25 (0.003282%)	
TTAAGTTACTTTAGGGATAACAGCGTAATTTTGGGAGA	9 (0.001181%)	
TTAATAATGATTAATAAATTAAGTTACTTTAGGGATAACA	12 (0.001575%)	
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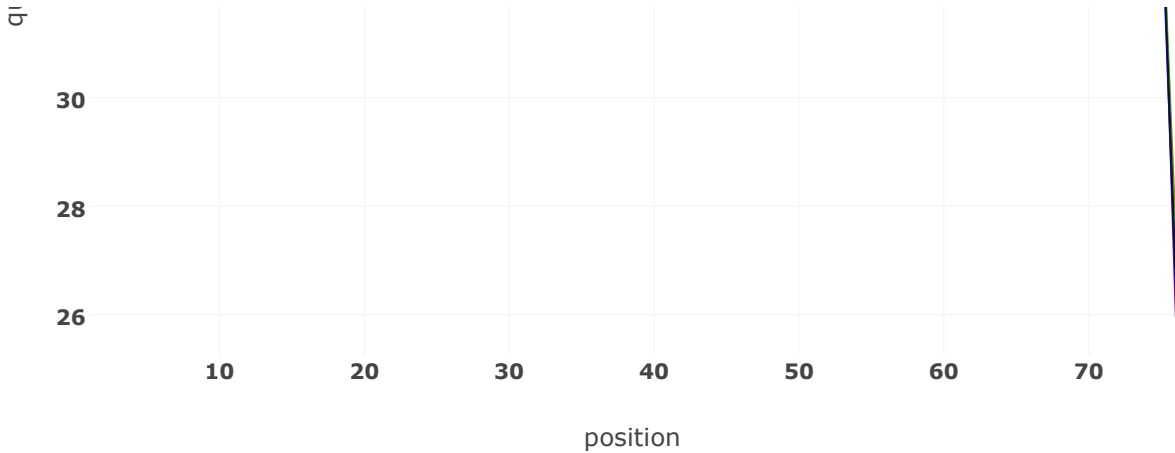
	7 (0.000919%)	
TTCAAACCGGTGAAGCCAGGTGGTTCTATCTTTAAAA	18 (0.002363%)	
TTCAAATTTAAGTCTGTTGACTTTTAAATCTTACATG	8 (0.001050%)	
TTCATATCGATAAAAAAGATTGCGACCTCGATGTTGGATT	16 (0.002100%)	
TTCGCTGTTTAAACAAAAACATGTCTTTTGAATTATATA	11 (0.001444%)	
TTCTCGTCTTTTAAATAAATTTTAGCTTTTGAATAAAAA	14 (0.001838%)	
TTGAACTCAGATCATGTAAGAATTTAAAGTCGAACAGAC	6 (0.000788%)	
TTGCACAGTCAAAATACGCGGCCATTTAAATTTTCAGT	6 (0.000788%)	
TTGCGACCTCGATGTTGGATTAAGATATAATTTTGGGTGT	7 (0.000919%)	
TTTAAATGCCCGCAGTATTTTGAAGTGTGCAAGGTAGCAT	30 (0.003938%)	
TTTAAATCTTACATGATCTGAGTTCAAACCGGTGAAGC	19 (0.002494%)	
TTTAAGTCTGTTGACTTTTAAATCTTACATGATCTGAG	6 (0.000788%)	
TTTAGCTTTTGAAGTCAAAAAATAAATCTATAAAAAATT	22 (0.002888%)	
TTTAGGGATAACAGCGTAATTTTTTGGAGAGTTCATATC	17 (0.002232%)	
TTTGACTGTGCAAGGTAGCATAATCATTAGTCTTTTAAT	15 (0.001969%)	
TTTTAAATAAATTTAGCTTTTGAAGTCAAAAAATAAAT	7 (0.000919%)	
TTTTAAATGGCCGAGTATTTTGAAGTGTGCAAGGTAGCA	28 (0.003675%)	
TTTTAAATCTTACATGATCTGAGTTCAAACCGGTGAAG	23 (0.003019%)	
TTTTAAGTCTGTTGACTTTTAAATCTTACATGATCTGA	18 (0.002363%)	
TTTTAATTGAAGGTGGAATGAATGGTTGGAGCAAAATATT	13 (0.001706%)	
TTTAGCTTTTGAAGTCAAAAAATAAATCTATAAAAAATT	13 (0.001706%)	
TTTGACTGTGCAAGGTAGCATAATCATTAGTCTTTTAA	20 (0.002625%)	
TTTTTGAGAGTTCATATCGATAAAAAAGATTGCGACCTC	21 (0.002757%)	
TTTTTGAGAGTTCATATCGATAAAAAAGATTGCGACCT	8 (0.001050%)	
TTTTTTGGAGAGTTCATATCGATAAAAAAGATTGCGACC	24 (0.003150%)	

After filtering

After filtering: read1: quality

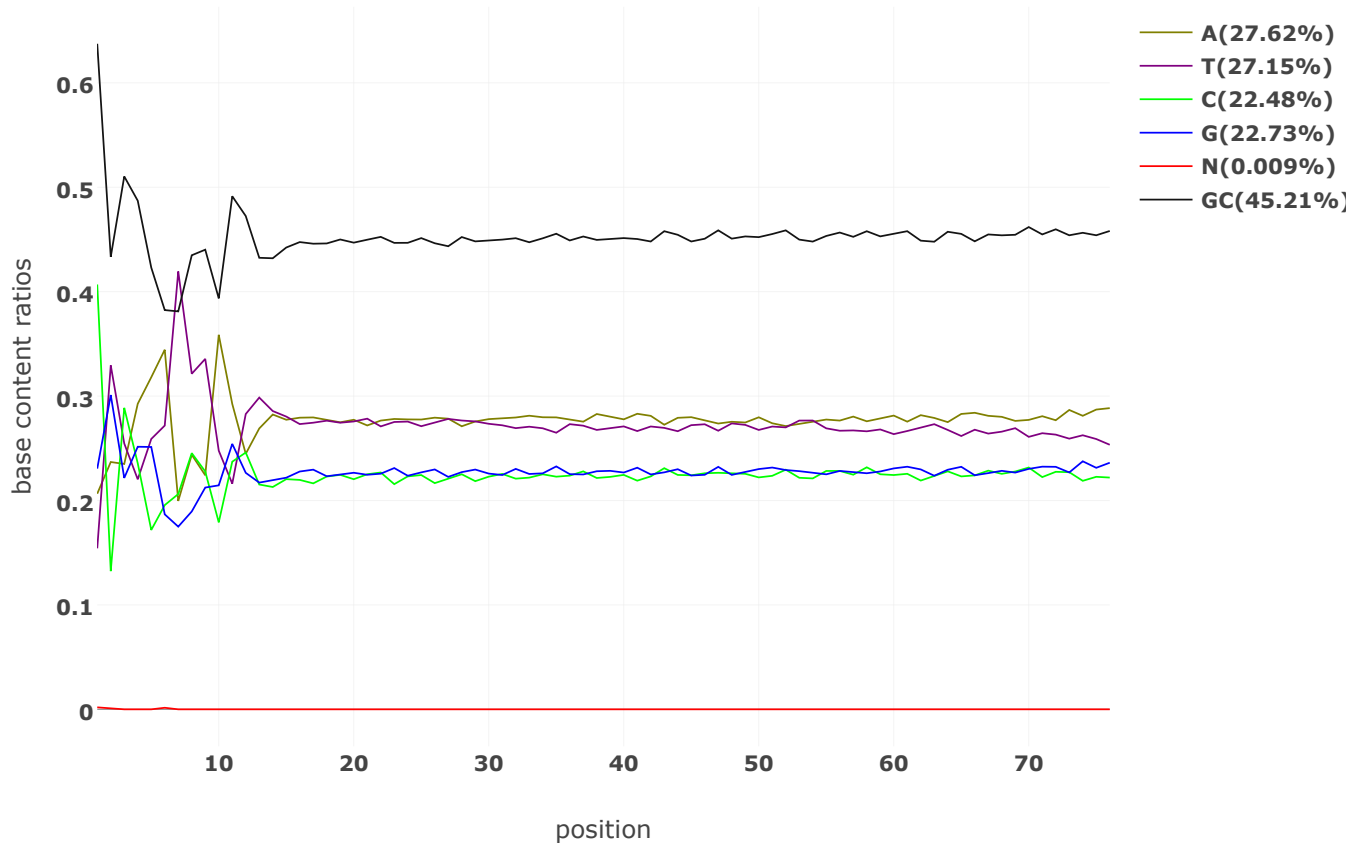
Value of each position will be shown on mouse over.





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	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	AAC TT	AAC TC	AAC TG	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	ATTTT	ATTTG	ATTCA	ATTCT	ATTCC	ATTTCG	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	AC CCT	ACCCC	ACCCG	ACCGA	ACCGT	ACCGC	ACCGG
ACG	ACGAA	ACGAT	ACGAC	ACGAG	ACGTA	ACGTT	ACGTC	ACGTG	ACGCA	ACGCT	ACGCC	ACGCG	ACGGA	ACGGT	ACGGC	ACGGG
AGA	AGAAA	AGAAT	AGAAC	AGAAG	AGATA	AGATT	AGATC	AGATG	AGACA	AGACT	AGACC	AGACG	AGAGA	AGAGT	AGAGC	AGAGG
AGT	AGTAA	AGTAT	AGTAC	AGTAG	AGTTA	AGTTT	AGTTC	AGTTG	AGTCA	AGTCT	AGTCC	AGTCG	AGTGA	AGTGT	AGTGC	AGTGG
AGC	AGCAA	AGCAT	AGCAC	AGCAG	AGCTA	AGCTT	AGCTC	AGCTG	AGCCA	AGCCT	AGCCC	AGCCG	AGCGA	AGCGT	AGCGC	AGCGG
AGG	AGGAA	AGGAT	AGGAC	AGGAG	AGGTA	AGGTT	AGGTC	AGGTG	AGGCA	AGGCT	AGGCC	AGGCG	AGGGA	AGGGT	AGGGC	AGGGG
TAA	TAAAA	TAAAT	TAAAC	TAAAG	TAATA	TAATT	TAATC	TAATG	TAACA	TAACT	TAACC	TAACG	TAAGA	TAAGT	TAAGC	TAAGG
TAT	TATAA	TATAT	TATAC	TATAG	TATTA	TATTT	TATTC	TATTG	TATCA	TATCT	TATCC	TATCG	TATGA	TATGT	TATGC	TATGG
TAC	TACAA	TACAT	TACAC	TACAG	TACTA	TACTT	TACTC	TACTG	TACCA	TACCT	TACCC	TACCG	TACGA	TACGT	TACGC	TACGG






































TAG	TAGAA	TAGAT	TAGAC	TAGAG	TAGTA	TAGTT	TAGTC	TAGTG	TAGCA	TAGCT	TAGCC	TAGCG	TAGGA	TAGGT	TAGGC	TAGGG
TTA	TTAAA	TTAAT	TTAAC	TTAAG	TTATA	TTATT	TTATC	TTATG	TTACA	TTACT	TTACC	TTACG	TTAGA	TTAGT	TTAGC	TTAGG
TTT	TTTAA	TTTAT	TTTAC	TTTAG	TTTTA	TTTTT	TTTTC	TTTTG	TTTCA	TTTCT	TTTCC	TTTCG	TTTGA	TTTGT	TTTGC	TTTGG
TTC	TTCAA	TTCAT	TTCAC	TTCAG	TTCTA	TTCTT	TTCTC	TTCTG	TTCCA	TTCTT	TTCCC	TTCCG	TTCGA	TTCGT	TTCGC	TTCCG
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
TGC	TGCAA	TGCAAT	TGCAC	TCGAG	TGCTA	TGCTT	TGCTC	TGCTG	TGCCA	TGCTT	TGCCC	TGCGG	TGCGA	TGCGT	TGCGC	TGCGG
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	TGTGG	TGTGA	TGTGT	TGTGC	TGTGG
TGC	TGCAA	TGCAT	TGCAC	TGCAG	TGCTA	TGCTT	TGCTC	TGCTG	TGCCA	TGCTT	TGCCC	TGCGG	TGCGA	TGCGT	TGCGC	TGCGG
TGG	TGGAA	TGGAT	TGGAC	TGGAG	TGGTA	TGGTT	TGGTC	TGGTG	TGGCA	TGGCT	TGGCC	TGGCG	TGGGA	TGGGT	TGGGC	TGGGG
CAA	CAAAA	CAAAAT	CAAAAC	CAAAAG	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	CACCT	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	CTCTA	CTCTT	CTCTC	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	CTCTA	CTCTT	CTCTC	CTCTG	CCTGA	CCTGT	CCTGC	CCTGG
CCC	CCCAA	CCCAT	CCCAC	CCCAG	CCCTA	CCCTT	CCCTC	CCCTG	CCCCA	CCCCT	CCCCC	CCCCG	CCCCA	CCCCT	CCCCC	CCCCG
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	GACCT	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	GTAAAC	GTAAG	GATATA	GATTT	GATTC	GATTG	GTACA	GTACT	GTACC	GTACG	GTAGA	GTAGT	GTAGC	GTAGG
GTT	GTTAA	GTTAT	GTTAC	GTTAG	GTTTA	GTTTT	GTTTC	GTTTG	GTTCA	GTTCT	GTTCC	GTTGG	GTTGA	GTTGT	GTTGC	GTTGG
GTC	GTCAA	GTCAT	GTCAC	GTCAG	GCTTA	GCTTT	GCTTC	GCTTG	GTCGA	GCTCT	GTCCT	GTCGG	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	GGGT	GGTGC	GGTGG
GGC	GGCAA	GGCAT	GGCAC	GGCAG	GGCTA	GGCTT	GGCTC	GGCTG	GGCCA	GGCCT	GGCCC	GGCCG	GGCGA	GGCGT	GGCGC	GGCGG
GGG	GGGAA	GGGAT	GGGAC	GGGAG	GGGTA	GGGTT	GGGTC	GGGTG	GGGCA	GGGCT	GGGCC	GGGCG	GGGGA	GGGGT	GGGGC	GGGGG

After filtering: read1: overrepresented sequences







































Sampling rate: 1 / 20







































overrepresented sequence	count (% of bases)	distribution: cycle 1 ~ cycle 76
AAAAAAGATTGCGACCTCGATGTTGGATTAAGATATAATT	143 (0.019759%)	
AAAAAATTAAGTTACTTTTAGGGATAACAGCGTAATTTTTT	199 (0.027497%)	
AAAAACATGTCCTTTTGAATTATATATAAAGCTCAACCTGCCACTGAAAATTTTAAATGGCCGCAGTATTTTG	370 (0.094580%)	
AAAAAAGATTGCGACCTCGATGTTGGATTAAGATATAATTT	28 (0.003869%)	
AAAAATAATATTCGCCTGTTTAAACAAAACATGCTTTTTT	28 (0.003869%)	
AAAAAATTAAGTTACTTTTAGGGATAACAGCGTAATTTTTT	34 (0.004698%)	
AAAAGATTGCGACCTCGATGTTGGATTAAGATATAATTTT	55 (0.007600%)	
AAAAATAATATTCGCCTGTTTAAACAAAACATGCTTTTTT	13 (0.001796%)	
AAAAATTAAGTTACTTTTAGGGATAACAGCGTAATTTTTT	21 (0.002902%)	
AAAAATTTAAATGGCCGCAGTATTTTGACTGTGCAAGGT	25 (0.003454%)	
AAACCGGTGTAAGCCAGGTTGGTTTCTATCTTTAAAAAAT	17 (0.002349%)	
AAACGAGTGTTATTGTGGCCGGTACTATTACTTTTGAACA	14 (0.001934%)	
AAACTAACAGGATTTTCTTAGTAGCGCGGAGCGAAAAGA	11 (0.001520%)	
AAAGAACTAACAGGATTTTCTTAGTAGCGCGGAGCGGAA	163 (0.022522%)	
AAAGAATTCGGCAAAAATAATATTCGCCTGTTTAAACAAA	469 (0.064803%)	
AAAGATTGCGACCTCGATGTTGGATTAAGATATAATTTT	30 (0.004145%)	
AAAGGTAGCATAATCATTAGTCTTTTAATTGAAGGCTGGA	9 (0.001244%)	
AAATAATATTCGCCTGTTTAAACAAAACATGCTTTTTTGA	109 (0.015061%)	
AAATTAAGTTACTTTTAGGGATAACAGCGTAATTTTTTGG	41 (0.005665%)	
AAATTCCTACATGATCTGAGTTCAAACCGGTGTAAGCCAG	30 (0.004145%)	
AAATTTTAAATGGCCGCAGTATTTTGACTGTGCAAAAGGTA	20 (0.002763%)	

AAATTTTAAGTCTGTCGACTTTTAAATCTTACATGATC	7 (0.000967%)	
AACAAAAACATGCTTTTTGAATTATATATAAGTCTAAC	8 (0.001105%)	
AACAGCGTAATTTTTTGAGAGTTTCATATCGATAAAAA	78 (0.010778%)	
AACATAAGTGTGTAAGACAGATTGATAGCTCTTCTCGAA	458 (0.063284%)	
AACCGGTGTAAGCCAGTTGGTTTCTATCTTTAAAAAATT	38 (0.005251%)	
AACGAGTGTATTGTGGGCCGGTACTATTACTTTGAACAA	28 (0.003869%)	
AACGGCTACACCCAAAATTATATCTTAATCCAATCGAG	330 (0.045597%)	
AAGAACTAACAAGGATTTTCTTAGTAGCGCGAGCGAAA	52 (0.007185%)	
AAGAAATTCGGCAAAAATAATTCCGCTGTTTAACAAAA	85 (0.011745%)	
AAGAATTTAAAAAGTCGAACAGACTTAAATTTGAACGGCT	34 (0.004698%)	
AAGACAGATTGATAGCTCTTCTCGAATCTATGGGTGGTG	45 (0.006218%)	
AAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAG	16 (0.002211%)	
AAGATATAATTTTGGGTGTAGCCGTTCAAATTTTAAGTCT	12 (0.001658%)	
AAGATTGCGACCTCGATGTTGGATTAAGATATAATTTGG	20 (0.002763%)	
AAGCCAGTTGGTTTCTATCTTTAAAAAATTATGATATT	29 (0.004007%)	
AAGGTAGCATAATCATTAGTCTTTTAATGAAGCTGGAA	21 (0.002902%)	
AATAATGATTAAAAAATTAAGTTACTTTAGGGATAACAGC	7 (0.000967%)	
AATATTCGCTGTTTAAACAAAACATGCTTTTTGAATTA	6 (0.000829%)	
AATCATTAGTCTTTTAATGAAGCTGGAATGAATGGTTG	39 (0.005389%)	
AATGAATGTTGGACGAAATATTAAGTCTTTTAAATTTT	10 (0.001382%)	
AATGATTAAAAAATTAAGTTACTTTAGGGATAACAGCGTA	41 (0.005665%)	
AATGGCCGAGTATTTTGACTGTGCAAGGTAGCATAATC	12 (0.001658%)	
AATGGTTGGACGAAATATTAAGTCTTTTAAATTTT	6 (0.000829%)	
AATTAAGTTACTTTAGGGATAACAGCGTAATTTTTTGGGA	68 (0.009396%)	
AATTCGGCAAAAATAATTCGCTGTTTAAACAAAACAT	19 (0.002625%)	
AATCTTACATGATCTGAGTTCAAACCGGTGAAGCCAGG	28 (0.003869%)	
AATTTTAAATGGCCGAGTATTTTGACTGTGCAAGGTAG	11 (0.001520%)	
AATTTTAAGTCTGTCGACTTTTAAATCTTACATGATCT	34 (0.004698%)	
AATTTTGGGTGATAGCGTTCAAATTTTAAGTCTGTTGAC	13 (0.001796%)	
AATTTTTTGGAGAGTTTCATATCGATAAAAAAGATTGCGA	55 (0.007600%)	
ACAAATTAGAGTGCTTAAAGCAGGCTTCAAATGCCTGAAT	8 (0.001105%)	
ACAGCGTAATTTTTTGGAGAGTTTCATATCGATAAAAAAG	8 (0.001105%)	
ACATAAGTGTGTAAGACAGATTGATAGCTCTTCTCGAAT	9 (0.001244%)	
ACCGGTGTAAGCCAGTTGGTTTCTATCTTTAAAAAATTA	11 (0.001520%)	
ACCTGCCCACTGAAAAATTTAAATGGCCGAGTATTTTGA	754 (0.104183%)	
ACCTTTGCACAGTCAAAATAGTCGCCCATTTAAATTTT	10 (0.001382%)	
ACGGCTACACCCAAAATTATATCTTAATCCAATCGAGG	43 (0.005941%)	
ACTCAGATCATGTAAGAATTTAAAGTCGAACAGACTTAA	6 (0.000829%)	
ACTGAAATTTTAAATGGCCGAGTATTTTGACTGTGCAA		

	16 (0.002211%)	
ACTGTGCAAAGGTAGCATAATCATTAGTCTTTTAATTGAA	17 (0.002349%)	
AGAAACTAACAGGATTTTCTTAGTAGCGGCGAGCGAAAA	20 (0.002763%)	
AGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAG	23 (0.003178%)	
AGAATTCGGCAAAAATAATATTCGCCTGTTTAAACAAAAC	8 (0.001105%)	
AGAATTTAAAAGTCGAACAGACTTAAATTTGAACGGCTA	11 (0.001520%)	
AGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGA	16 (0.002211%)	
AGAGTTCATATCGATAAAAAAGATTGCGACCTCGATGTTG	25 (0.003454%)	
AGATCATGTAAGAAATTTAAAGTCGAACAGACTTAAATTT	17 (0.002349%)	
AGATTGCGACCTCGATGTTGGATTAAGATATAATTTGGG	7 (0.000967%)	
AGCACGGATACGACCTTAGAGGCGTTGAGCATAATCCAA	8 (0.001105%)	
AGCATAATCATTAGTCTTTTAAATGAAGGCTGGAATGAAT	37 (0.005112%)	
AGCCAGGTTGGTTCTATCTTTAAAAAATTATGATATTTT	6 (0.000829%)	
AGCCGTTCAAATTTAAGTCTGTTGACCTTTAAATCTT	101 (0.013956%)	
AGCGTAATTTTTTTGGAGAGTTCATATCGATAAAAAAGAT	42 (0.005803%)	
AGCTTTTGGACTAAAAATAAAATCTATAAAAAATTTTAA	86 (0.011883%)	
AGGGATAACAGCGTAATTTTTTTGGAGAGTTCATATCGAT	6 (0.000829%)	
AGGTAGCATAATCATTAGTCTTTTAATTGAAGGCTGGAAT	10 (0.001382%)	
AGGTCGCAATCTTTTTATCGATATGAACCTCCAAAAAA	618 (0.085391%)	
AGTATTTTGACTGTGCAAAGGTAGCATAATCATTAGTCTT	158 (0.021831%)	
AGTGTGTAAGACAGATTGATAGCTCTTCTCGAATCTATG	9 (0.001244%)	
AGTTACTTTAGGGATAACAGCGTAATTTTTTTGGAGAGTT	7 (0.000967%)	
AGTTCAAACCGGTGAAGCCAGGTGGTTTCTATCTTTAA	11 (0.001520%)	
AGTTCATATCGATAAAAAAGATTGCGACCTCGATGTTGGA	29 (0.004007%)	
ATAAAAAAGATTGCGACCTCGATGTTGATTAAGATATAA	21 (0.002902%)	
ATAAATTTTAGCTTTTGGACTAAAAATAAAATCTATAA	7 (0.000967%)	
ATAACAGCGTAATTTTTTTGGAGAGTTCATATCGATAAAA	19 (0.002625%)	
ATAAGTGTAAGACAGATTGATAGCTCTTCTCGAATCT	16 (0.002211%)	
ATAATATTCGCTGTTTAAACAAAACATGCTTTTTGAAT	87 (0.012021%)	
ATAATCATTAGTCTTTAATTGAAGGCTGGAATGAATGGT	24 (0.003316%)	
ATAATGATTAATAAATAAGTTACTTTAGGATAACAGCG	19 (0.002625%)	
ATAATTTGGGTGAGCGTTCAAATTTTAAAGTCTGTTG	101 (0.013956%)	
ATATAATTTGGGTGAGCGTTCAAATTTTAAAGTCTGTT	28 (0.003869%)	
ATATTCGCTGTTTAAACAAAACATGCTTTTTGAATTAT	16 (0.002211%)	
ATCATGTAAGAATTTAAAGTCGAACAGACTTAAATTTG	21 (0.002902%)	
ATCATTAGTCTTTAATTGAAGGCTGGAATGAATGGTGG	39 (0.005389%)	
ATCGATAAAAAAGATTGCGACCTCGATGTTGGATTAAGAT	115 (0.015890%)	
ATCGGAATTAACCAGACAATCACTCCACGAACTAAGAAC	16 (0.002211%)	
ATCTGAGTTCAAACCGGTGAAGCCAGGTGGTTTCTATC		

	20 (0.002763%)	
ATGAATGGTTGGACGAAATATTAAGTGTTCATTAAAAAT	10 (0.001382%)	
ATGATTAAAAAATTAAGTTACTTTAGGGATAACAGCGTAA	21 (0.002902%)	
ATGGCCGCAGTATTTTGACTGTGCAAGGTAGCATAATCA	9 (0.001244%)	
ATGGTATGCGTAGAAGTGTGGCGTAAGCTGCATGGAG	12 (0.001658%)	
ATTAATAAATAAGTTACTTTAGGGATAACAGCGTAATTT	10 (0.001382%)	
ATTAAGATATAATTTTGGGTGTAGCCGTTCAAATTTAAG	14 (0.001934%)	
ATTAAGTTACTTTAGGGATAACAGCGTAATTTTTTTGGAG	19 (0.002625%)	
ATTAATAATGATTAAAAATTAAGTTACTTTAGGGATAAC	96 (0.013265%)	
ATTAATTAGGGGAGGAAAAGAACTAACAGGATTTTCTT	23 (0.003178%)	
ATTACTTTGAACAAATTAGAGTGCTTAAAGCAGGCTTCAA	93 (0.012850%)	
ATTAGAGTGCTTAAAGCAGGCTTCAAATGCCTGAATATTC	38 (0.005251%)	
ATTAGTCTTTTAATTGAAGGCTGGAATGAATGGTTGGACG	15 (0.002073%)	
ATTCGATTATTTGCTACTACCACCAAGATCTGTACCAATG	14 (0.001934%)	
ATTCGCCTGTTTAAACAAAACATGCTTTTTGAATTATAT	17 (0.002349%)	
ATTCGGCAAAAATAATATTCGCCTGTTTAAACAAAACATG	36 (0.004974%)	
ATTCTTACATGATCTGAGTTCAACCGGTGAAGCCAGGT	26 (0.003593%)	
ATTGATAGCTCTTCTCGAATCTATGGTGGTGGTGCATG	7 (0.000967%)	
ATTGCAGTCCAGCACGGATACGACCTTAGAGCGTTACGG	11 (0.001520%)	
ATTGCGACCTCGATGTTGGATTAAGATATAATTTTGGGTG	8 (0.001105%)	
ATTGTGGCCGGTACTATTACTTTTGAACAAATTAGAGTGC	8 (0.001105%)	
ATTTAGTTTTAGATGGAGTTTACCACCCACTTAGTGCTGC	16 (0.002211%)	
ATTTATCATTGCAGTCCAGCACGGATACGACCTTAGAGGC	9 (0.001244%)	
ATTTTAAATGGCCGCAGTATTTTGACTGTGCAAGGTAGC	137 (0.018930%)	
ATTTTAAGTCTGTTGACTTTTAAATTTCTACATGATCTG	133 (0.018377%)	
ATTTTAGCTTTTTGACTAAAAATAAAATCTATAAAAAAT	7 (0.000967%)	
ATTTTGACTGTGCAAGGTAGCATAATCATTAGTCTTTTA	372 (0.051401%)	
ATTTTGGGTGTAGCCGTTCAAATTTTAAGTCTGTTGACT	13 (0.001796%)	
ATTTTTTTGGAGAGTTCATATCGATAAAAAAGATTGCGAC	85 (0.011745%)	
CAAAAACATGCTTTTTGAATTATATATAAAGCTAACCT	344 (0.047532%)	
CAAAAATAATATTCGCCTGTTTAAACAAAACATGCTTTT	59 (0.008152%)	
CAAACCGGTGAAGCCAGGTGGTTTCTATCTTTAAAAAA	16 (0.002211%)	
CAAAGGTAGCATAATCATTAGTCTTTTAATTGAAGGCTGG	13 (0.001796%)	
CAAATTAGAGTGCTTAAAGCAGGCTTCAAATGCCTGAATA	6 (0.000829%)	
CAAATTTTAAGTCTGTTGACTTTTAAATTTCTACATGAT	17 (0.002349%)	
CAAGGATTTTCTAGTAGCGGAGCGAAAAAGAAAACAGT	7 (0.000967%)	
CAAGGTCTCATTGATTATTTGCTACTACCACCAAGATCT	9 (0.001244%)	
CAATGGTATGCGTAGAAGTGTGGCGTAAGCCTGCATGG	409 (0.056513%)	
CACAGTCAAAATACTGCGCCATTAAAAATTTTCAGTGGG		

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	25 (0.003454%)	
CACCCACTTAGTGCTGCACATATCAAGCAACGACTCTTT	7 (0.000967%)	
CACGGATACGACCTTAGAGGCGTTCAGGCATAATCCAACG	7 (0.000967%)	
CACTGAAAATTTTAAATGGCCGAGTATTTTGACTGTGCA	15 (0.002073%)	
CACTTCAGTCTCCAAGGTCTCATTGATTATTTGCTACT	12 (0.001658%)	
CAGATCATGTAAGAATTTAAAAGTGAACAGACTTAAAT	17 (0.002349%)	
CAGATTGATAGCTCTTTCTCGAATCTATGGTGGTGGTGC	34 (0.004698%)	
CAGCGTAATTTTTTTGGAGAGTTCATATCGATAAAAAAGA	69 (0.009534%)	
CAGTATTTTGACTGTGCAAGGTAGCATAAATCATTAGTCT	19 (0.002625%)	
CAGTCCTCCAAGGTCTCATTGATTATTTGCTACTACCAC	8 (0.001105%)	
CATAAGTGTGAAGACAGATTGATAGCTCTTTCTCGAATC	28 (0.003869%)	
CATAATCATTAGTCTTTTAAATGAAGGTGGAATGAATGG	39 (0.005389%)	
CATATCGATAAAAAAGATTGCGACCTCGATGTTGGATTAA	13 (0.001796%)	
CATGATCTGAGTTCAAACCGGTGAAGCCAGGTGGTTTC	19 (0.002625%)	
CATGGTTATATTTAGTTTTAGATGGAGTTTACCACCCACT	58 (0.008014%)	
CATTAATAATGATTAATAAATAAGTTACTTTAGGATAA	349 (0.048223%)	
CATTAGTCTTTTAAATGAAGGTGGAATGAATGGTGGAC	24 (0.003316%)	
CCAAGGTCTCATTGATTATTTGCTACTACCACCAAGATC	11 (0.001520%)	
CCACTTCAGTCTCCAAGGTCTCATTGATTATTTGCTAC	376 (0.051953%)	
CCCAAAGTCTCTTATTAATCATTACCTCTTGATCGAAAACCAATGAAAGCAGAACAGAGGTCTTATTT CATT	250 (0.063905%)	
CCCACTGAAAATTTTAAATGGCCGAGTATTTTGACTGTG	7 (0.000967%)	
CCCCAAAGTCTCTTATTAATCATTACCTCTTGATCTGAA	296 (0.040899%)	
CCGGTGAAGCCAGGTGGTTTCTATCTTTAAAAATTAT	14 (0.001934%)	
CCTCCAAGGTCTCATTGATTATTTGCTACTACCACCAAG	16 (0.002211%)	
CCTCGATGTTGGATTAAGATATAATTTGGGTGAGCCGT	87 (0.012021%)	
CCTGCCCACTGAAAATTTTAAATGGCCGAGTATTTTGAC	7 (0.000967%)	
CCTTATTTATCATTGCAGTCCAGCACGGATACGACCTTAG	328 (0.045321%)	
CCTTGCACAGTCAAAATACTGCGCCATTTAAAAATTTTC	142 (0.019621%)	
CGACCTCGATGTTGGATTAAGATATAATTTGGGTGATAGC	12 (0.001658%)	
CGATAAAAAAGATTGCGACCTCGATGTTGGATTAAGATAT	195 (0.026944%)	
CGATGTTGGATTAAGATATAATTTGGGTGAGCCGTTCA	69 (0.009534%)	
CGATTATTTGCTACTACCACCAAGACTGTACCAATGGCA	7 (0.000967%)	
CGCAGTATTTTGACTGTGCAAGGTAGCATAAATCATTAGT	13 (0.001796%)	
CGCCTGTTTAACAAAAACATGTCTTTTGAATTATATATA	39 (0.005389%)	
CGCCTTCGAACCTCTAACTTTCTGTTCTTGATTAATGAAAA	12 (0.001658%)	
CGGCCATTTAAAAATTTTCAGTGGGAGGTAGACTTTATA	47 (0.006494%)	
CGGTACACCCAAAAATTATATCTTAATCCAACATCGAGGTGCAATCTTTTTATCGATAGAACTCTCC AAAA	274 (0.070040%)	
CGGTACTATTACTTTGAACAAATTAGAGTGCTTAAAGCAG	6 (0.000829%)	
CGTAATTTTTTTGGAGAGTTCATATCGATAAAAAAGATTG		

	96 (0.013265%)	
CGTCCAACCATTCATTCCAGCCTTCAATTAAGACTAAT	474 (0.065494%)	
CGTCTTTAAATAAATTTAGCTTTTGACTAAAAATAA	38 (0.005251%)	
CGTTATCGGAATTAACCAGACAAATCACTCCACGAACTAA	37 (0.005112%)	
CGTTCAAATTTTAAGTCTGTCGACTTTTAAATCTTACA	10 (0.001382%)	
CGTTCGTTATCGGAATTAACCAGACAAATCACTCCACGAA	426 (0.058862%)	
CGTTTATGGTTAGAACTAGGGCGGTATCTGATCGCTTCG	421 (0.058171%)	
CTACCTTTGCACAGTCAAATACTGCGGCCATTTAAATTT	173 (0.023904%)	
CTATTACTTTGAACAAATTAGAGTGCTTAAAGCAGGCTTC	41 (0.005665%)	
CTCAGATCATGTAAGAATTTAAAGTCGAACAGACTTAAA	109 (0.015061%)	
CTCATGGTTATATTTAGTTTTAGATGGAGTTTACCACCCA	245 (0.033853%)	
CTCATTGATTATTTGCTACTACCACCAAGATCTGTACCA	17 (0.002349%)	
CTCCAAGGTCTCATTGATTATTTGCTACTACCACCAAGA	80 (0.011054%)	
CTCGATGTTGATTAAAGATATAATTTGGGTGTAGCCGTT	71 (0.009810%)	
CTCGTCTTTTAAATAAATTTAGCTTTTGACTAAAAAT	327 (0.045183%)	
CTGAAAATTTTAAATGGCCGAGTATTTGACTGTGCAAA	54 (0.007461%)	
CTGGAATGAATGGTTGGACGAAATATTAACGTTTCATT	51 (0.007047%)	
CTGTTTAACAAAAACATGCTTTTTGAATTATATATAAAG	6 (0.000829%)	
CTTACATGATCTGAGTTCAAACGGGTGAAGCAGGTTGG	38 (0.005251%)	
CTTATTTATCATTGCAGTCCAGCAGGATACGACCTTAGA	113 (0.015614%)	
CTTCAGTCCTCAAGGTCTCATTGATTATTTGCTACTAC	9 (0.001244%)	
CTTCTCGTCTTTTAAATAAATTTAGCTTTTGACTAAAA	141 (0.019482%)	
CTTTAGGGATAACAGCGTAATTTTTTGGAGAGTTCATAT	18 (0.002487%)	
CTTTGAACAAATTAGAGTGCTTAAAGCAGGCTTCAAATGC	59 (0.008152%)	
CTTTGCACAGTCAAAATACTGCGGCCATTTAAATTTTCA	79 (0.010916%)	
CTTTTAAATAAATTTAGCTTTTGACTAAAAATAAAT	46 (0.006356%)	
CTTTTAAATCTTACATGATCTGAGTTCAAACGGGTGTA	159 (0.021970%)	
CTTTTAATTGAAGGCTGGAATGAATGGTTGGACGAAATAT	25 (0.003454%)	
CTTTTGACTAAAAATAAATCTATAAAATTTTAAAT	17 (0.002349%)	
GAAAATTTTAAATGGCCGAGTATTTGACTGTGCAAAGG	135 (0.018653%)	
GAACTAACAAGGATTTTCTAGTAGCGGCGAGCGAAAAG	7 (0.000967%)	
GAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGA	12 (0.001658%)	
GAAGAGCACACGCTGAACT	310 (0.021417%)	
GAAGAGCACACGCTGAACTCCAGTCACTGACCAATCTCG	290 (0.040070%)	
GAATGAATGGTTGGACGAAATATTAAGTCTTTCATTTAAA	6 (0.000829%)	
GAATGGTTGGACGAAATATTAAGTCTTTCATTTAAAATTT	11 (0.001520%)	
GAATTCGGCAAAAATAATTCGCTGTTTAAACAAAACA	19 (0.002625%)	
GACAGATTGATAGCTCTTCTCGAATCTATGGGTGGTGGT	21 (0.002902%)	
GACTGTGCAAAGTAGCATAATCATTAGTCTTTAATTGA		

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	16 (0.002211%)	
GTAGCGTTCAAATTTTAAGTCTGTTGACTTTTAAATTC	10 (0.001382%)	
GTATTTTGACTGTGCAAGGTAGCATAATCATTAGTCTTT	96 (0.013265%)	
GTCCAACCATTCATTCCAGCCTTCAATTAAGAGCTAATGATTATGCTACCTTTGCACAGTCAAATACTGCGG	454 (0.116052%)	
GTCCTCCAAGGTCTCATTGCTATTATTGCTACTACCACTCA	27 (0.003731%)	
GTCCTTTGCTACTAAAAATATCATAATTTTTTAAAGATAGAAACCACTGGCTTACACCGTTTGAATCAGAT	884 (0.225969%)	
GTCTCATTGCTATTATTGCTACTACCACTCAAGATCTGTAC	17 (0.002349%)	
GTCTTCTGCTCTTTTAAATAAATTTTGTCTTTTGTACTAA	471 (0.065080%)	
GTCCTTTAAATAAAATTTAGCTTTTGTACTAAAAATAAA	17 (0.002349%)	
GTCCTTTAATTGAAGGCTGGAATGAATGGTTGGACGAAAT	25 (0.003454%)	
GTGCAAAGGTAGCATAATCATTAGTCTTTAATTGAAGGC	6 (0.000829%)	
GTGTAAGACAGATTGATAGCTCTTTCTCGAATCTATGGGT	19 (0.002625%)	
GTGTAAGCCAGGTGGTTTCTATCTTTAAAAAATTATGAT	8 (0.001105%)	
GTGTGTAAGACAGATTGATAGCTCTTTCTGAATCTATGG	7 (0.000967%)	
GTGTTATTGTGGGCCGTACTATTACTTTGAACAAATTAG	11 (0.001520%)	
GTTACTTTAGGGATAACAGCGTAATTTTTTGGAGAGTTC	20 (0.002763%)	
GTTAGAACTAGGGCGGTATCTGATCGCCTTGAACCTCTA	10 (0.001382%)	
GTTATATTTAGTTTTAGATGGAGTTTACCACCCACTTAGT	93 (0.012850%)	
GTTATTGTGGGCCGTACTATTACTTTGAACAAATTAGAG	10 (0.001382%)	
GTTCAAACCGGTGTAAGCCAGGTGGTTTCTATCTTTAAA	90 (0.012436%)	
GTTCAAATTTTAAGTCTGTTGACTTTTAAATTTTACAT	28 (0.003869%)	
GTTCATATCGATAAAAAAGATTGCGACCTCGATGTTGGAT	118 (0.016304%)	
GTTGTTATCGGAATTAACAGACAACTCACTCCACGAAC	86 (0.011883%)	
GTTGGACGAAATTAAGTGTTCATTTAAATTTTTTATA	9 (0.001244%)	
GTTGGATTAAAGATATAATTTTGGGTGAGCCGTTCAAATT	33 (0.004560%)	
GTTTAAACAAAAATGTCCTTTTTGAATTATATATAAGTC	42 (0.005803%)	
GTTTATGGTTAGAACTAGGGCGGTATCTGATCGCCTTCGA	27 (0.003731%)	
GTTTGAACTCAGATCATGTAAGAAATTTAAAGTCGAACAG	381 (0.052644%)	
TAAAAAAGATTGCGACCTCGATGTTGGATTAAAGATATAAT	6 (0.000829%)	
TAAAAAATTAAGTTACTTTAGGGATAACAGCGTAATTTTT	60 (0.008290%)	
TAAACGAGTGTATTGTGGGCCGTACTATTACTTTGAAC	8 (0.001105%)	
TAAATGGCCGAGTATTTTGTACTGTCAAGGTAGCATAA	12 (0.001658%)	
TAAATCTTACATGATCTGAGTTCAAACCGGTGAAGCCA	38 (0.005251%)	
TAACAGCGTAATTTTTTGGAGAGTTCATATCGATAAAAA	94 (0.012988%)	
TAAGAATTTAAAGTCGAACAGACTTAAAAATTTGAACGGC	43 (0.005941%)	
TAAGATATAATTTTGGGTGAGCCGTTCAAATTTTAAAGTC	10 (0.001382%)	
TAAGTGTGTAAGACAGATTGATAGCTCTTTCTCGAATCTA	30 (0.004145%)	
TAATAATGATTAAAAAATTAAGTTACTTTAGGGATAACAG	8 (0.001105%)	
TAATATTGCGCTGTTTAAACAAAAATGTCCTTTTTGAATT		

	11 (0.001520%)	
TAATCATTAGTCTTTTAATTGAAGGCTGGAATGAATGGTT	20 (0.002763%)	
TAATGATTAAAAAATTAAGTTACTTTAGGGATAACAGCGT	55 (0.007600%)	
TAATGATTATGCTACCTTTGCACAGTCAAAATACTGCGGC	706 (0.097551%)	
TAATTTTGGGTGTAGCCGTTCAAATTTTAAGTCTGTTCGA	15 (0.002073%)	
TAATTTTTTGGAGAGTTCATATCGATAAAAAAGATTGCG	14 (0.001934%)	
TACCTTTGCACAGTCAAAATACTGCGGCCATTTAAATTT	63 (0.008705%)	
TACTTTAGGGATAACAGCGTAATTTTTTGGAGAGTTCAT	8 (0.001105%)	
TACTTTGAACAAATTAGAGTGCTTAAAGCAGGCTTCAAAT	7 (0.000967%)	
TAGCATAATCATTAGTCTTTTAATTGAAGGCTGGAATGAA	9 (0.001244%)	
TAGCCGTTCAAATTTTAAGTCTGTTCGACTTTTAAATCT	18 (0.002487%)	
TAGCTTTTGGACTAAAAATAAAATCTATAAAAAATTTTA	35 (0.004836%)	
TAGGGATAACAGCGTAATTTTTTGGAGAGTTCATATCGA	23 (0.003178%)	
TATAATTTGGGTGTAGCCGTTCAAATTTTAAGTCTGTTTC	8 (0.001105%)	
TATCGATAAAAAAGATTGCGACCTCGATGTGGATTAAGA	23 (0.003178%)	
TATTAATTAGGGGAGGAAAGAACTAACAGGATTTTCT	356 (0.049190%)	
TATTTTGACTGTGCAAGGTAGCATAATCATTAGTCTTTT	11 (0.001520%)	
TCAAACCGGTGAAGCCAGGTTGGTTTCTATCTTTAAAAA	8 (0.001105%)	
TCATATCGATAAAAAAGATTGCGACCTCGATGTGGATTA	6 (0.000829%)	
TCCAAGTCTCATTGATTATTTGCTACTACCAAGAT	7 (0.000967%)	
TCCTTCGTAATAATATCATAATTTTTAAAGATAGAAACCACTGGCTTACACCGGTTTGAACCTA GATC	25 (0.006391%)	
TCGATAAAAAAGATTGCGACCTCGATGTGGATTAAGATA	6 (0.000829%)	
TCGCCTTCGAACCTCTAACTTTCTGTTCTTGATTAATGAAA	12 (0.001658%)	
TCGGAATTAACCAGACAAATCACTCCAGCACTAAGAACG	8 (0.001105%)	
TCTCATTGATTATTTGCTACTACCAAGATCTGTACC	8 (0.001105%)	
TGAAAATTTTAAATGGCCGAGATTTTGACTGTGCAAAG	204 (0.028187%)	
TGAAGGCTGGAATGAATGGTTGGACGAAATTAACGTGT	10 (0.001382%)	
TGAATGGTTGGACGAAATATTAACGTGTTTCATTTAAATTT	6 (0.000829%)	
TGACTGTGCAAGGTAGCATAATCATTAGTCTTTTAAATG	72 (0.009949%)	
TGAGTTCAAACCGGTGAAGCCAGGTTGGTTCTATCTTT	155 (0.021417%)	
TGATTAATAAATTAAGTTACTTTAGGGATAACAGCGTAAT	19 (0.002625%)	
TGCAAAGGTAGCATAATCATTAGTCTTTTAAATGAAGGCT	33 (0.004560%)	
TGCACAGTCAAAATACTGCGGCCATTTAAATTTTTCAGTG	16 (0.002211%)	
TGCCCACTGAAAAATTTTAAATGGCCGAGTATTTGACTG	44 (0.006080%)	
TGCGACCTCGATGTGGATTAAGATATAATTTGGGTGTA	10 (0.001382%)	
TGCGGCCATTTAAATTTTTCAGTGGCAGGTTAGACTTTTA	12 (0.001658%)	
TGGAATGAATGGTTGGACGAAATATTAACGTGTTTCATTTA	12 (0.001658%)	
TGGAGAGTTCATATCGATAAAAAAGATTGCGACCTCGATG	11 (0.001520%)	
TGGATTAAGATATAATTTGGGTGTAGCCGTTCAAATTTT		

	7 (0.000967%)	
TGGCCGAGTATTTTACTGTGCAAGGTAGCATAATCAT	22 (0.003040%)	
TGGGTGTAGCGTTCAAATTTAAGTCTGTCGACTTTTA	6 (0.000829%)	
TGTTATATTTAGTTTATAGTGGAGTTTACCACCCACTTA	7 (0.000967%)	
TGTTTAACAAAAACATGCTCTTTTGAATTATATATAAAGT	8 (0.001105%)	
TTAAAAATTAAGTTACTTTTAGGGATAACAGCGTAATTTT	11 (0.001520%)	
TTAAACGAGTGTTATTGTGGCCGGTACTATTACTTTGAA	336 (0.046426%)	
TTAAATTCCTACATGATCTGAGTTCAAACCGGTGAAGCC	15 (0.002073%)	
TTAAGATATAATTTTGGGTGTAGCGTTCAAATTTTAAGT	21 (0.002902%)	
TTAAGTTACTTTAGGGATAACAGCGTAATTTTGGAGAG	7 (0.000967%)	
TTACTTTAGGGATAACAGCGTAATTTTGGAGAGTTCA	6 (0.000829%)	
TTAGCTTTTGAATAAAAAATAAATCTATAAAAAATTTT	10 (0.001382%)	
TTATTTATCATTGCAGTCCAGCACGGATACGACCTTAGAG	8 (0.001105%)	
TTCAAACGGGTGAAGCCAGGTGGTCTCTATCTTAAAA	15 (0.002073%)	
TTCAAATTTAAGTCTGTTGACTTTTAAATCTTACATG	8 (0.001105%)	
TTCATATCGATAAAAAAGATTGCGACCTCGATGTTGGATT	9 (0.001244%)	
TTGCCTGTTTAAACAAAAACATGCTTTTGAATTATATA	10 (0.001382%)	
TTCTCGTCTTTTAAATAAATTTTAGCTTTTGAATAAAAA	13 (0.001796%)	
TTCTTACATGATCTGAGTTCAAACCGGTGAAGCCAGGTT	8 (0.001105%)	
TTGCACAGTCAAAATACTGCGGCCATTTAAAAATTTTCA	6 (0.000829%)	
TTGCGACCTCGATGTTGGATTAAAGATATAATTTGGGTGT	6 (0.000829%)	
TTTAAATGGCCGAGTATTTTACTGTGCAAGGTAGCAT	21 (0.002902%)	
TTTAAATCTTACATGATCTGAGTTCAAACCGGTGAAGC	21 (0.002902%)	
TTTAGCTTTTGAATAAAAAATAAATCTATAAAAAATTT	23 (0.003178%)	
TTTAGGGATAACAGCGTAATTTTGGAGAGTTCATATC	11 (0.001520%)	
TTTGACTGTGCAAGGTAGCATAATCATTAGTCTTTTAAT	25 (0.003454%)	
TTTTAAATAAATTTTAGCTTTTGAATAAAAAATAAATTT	6 (0.000829%)	
TTTTAAATGGCCGAGTATTTTACTGTGCAAGGTAGCA	40 (0.005527%)	
TTTTAAATCTTACATGATCTGAGTTCAAACCGGTGAAG	28 (0.003869%)	
TTTTAAGTCTGTTGAGCTTTTAAATCTTACATGATCTGA	12 (0.001658%)	
TTTTAATTGAAGGTGGAATGAATGGTTGGAGCAAAATATT	13 (0.001796%)	
TTTTAGCTTTTGAATAAAAAATAAATCTATAAAAAATTT	8 (0.001105%)	
TTTTGACTGTGCAAGGTAGCATAATCATTAGTCTTTTAA	21 (0.002902%)	
TTTTTGACTAAAAATAAATCTATAAAAAATTTTAAATG	8 (0.001105%)	
TTTTTGAGAGTTCATATCGATAAAAAAGATTGCGACCTC	17 (0.002349%)	
TTTTTTGGAGAGTTCATATCGATAAAAAAGATTGCGACCT	7 (0.000967%)	
TTTTTTGGAGAGTTCATATCGATAAAAAAGATTGCGACCT	16 (0.002211%)	

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