# **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:	70bp									
duplication rate:	52.874003% (may be overestimated since this is SE data)									
Detected read1 adapter:	AGATCGGAAGAGCACACGTCTGAACTCCAGTCA									
Before filtering										
total reads:	29.767372 M									
total bases:	2.262320 G									
Q20 bases:	2.152990 G (95.167344%)									
Q30 bases:	2.115502 G (93.510285%)									
GC content:	59.108956%									
After filtering										

total reads: 28.740027 M 2.013980 G total bases: Q20 bases:

1.938965 G (96.275293%) Q30 bases: 1.910121 G (94.843114%) GC content: 59.912326%

Filtering result reads passed filters: 28.740027 M (96.548755%) reads with low quality: 276.674000 K (0.929454%)

reads with too many N: 822 (0.002761%) reads too short:

749.849000 K (2.519030%) Adapters

# Adapter or bad ligation of read1

Sequence

AGATC	362011
AGATCG	352692
AGATCGG	352819
AGATCGGA	376474
AGATCGGAA	397279
AGATCGGAAG	369522
AGATCGGAAGA	378834
AGATCGGAAGAG	381166
AGATCGGAAGAGC	348023
AGATCGGAAGAGCA	390907
AGATCGGAAGAGCAC	355756
AGATCGGAAGAGCACA	306742
AGATCGGAAGAGCACAC	343570
AGATCGGAAGAGCACACG	306078
AGATCGGAAGAGCACACGT	298903
AGATCGGAAGAGCACACGTC	278349
AGATCGGAAGAGCACACGTCT	234294
AGATCGGAAGAGCACACGTCTG	250074
AGATCGGAAGAGCACACGTCTGA	214643
AGATCGGAAGAGCACACGTCTGAA	203275
AGATCGGAAGAGCACACGTCTGAAC	194583
AGATCGGAAGAGCACACGTCTGAACT	171856
AGATCGGAAGAGCACACGTCTGAACTC	161960
AGATCGGAAGAGCACACGTCTGAACTCC	155093
AGATCGGAAGAGCACACGTCTGAACTCCA	150753
AGATCGGAAGAGCACACGTCTGAACTCCAG	131317
AGATCGGAAGAGCACACGTCTGAACTCCAGT	119499
AGATCGGAAGAGCACACGTCTGAACTCCAGTC	854718
AGATCGGAAGAGCACACGTCTGAACTCCAGTCA	102540
AGATCGGAAGAGCACACGTCTGAACTCCAGTCAC	106109
AGATCGGAAGAGCACACGTCTGAACTCCAGTCACC	99318

Occurrences

1074269

other adapter sequences

**Duplication** 

50

# 30

# Read percent (%) Read percent (%) & GC ratio Mean GC ratio (%) 40 20 10 10 15 25 30 duplication level Before filtering

duplication rate (52.874003%)

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

31

30

– mean 34 33 32

position

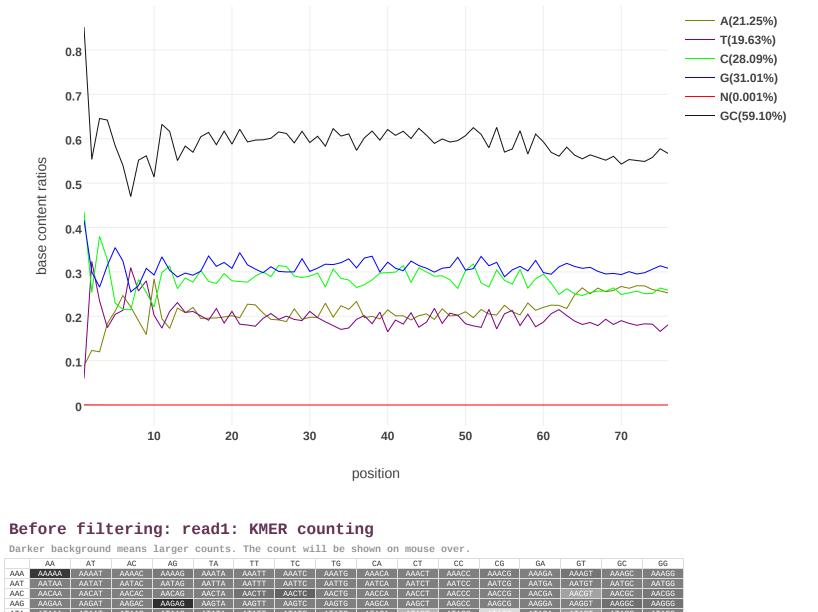
60

70

# Value of each position will be shown on mouse over.

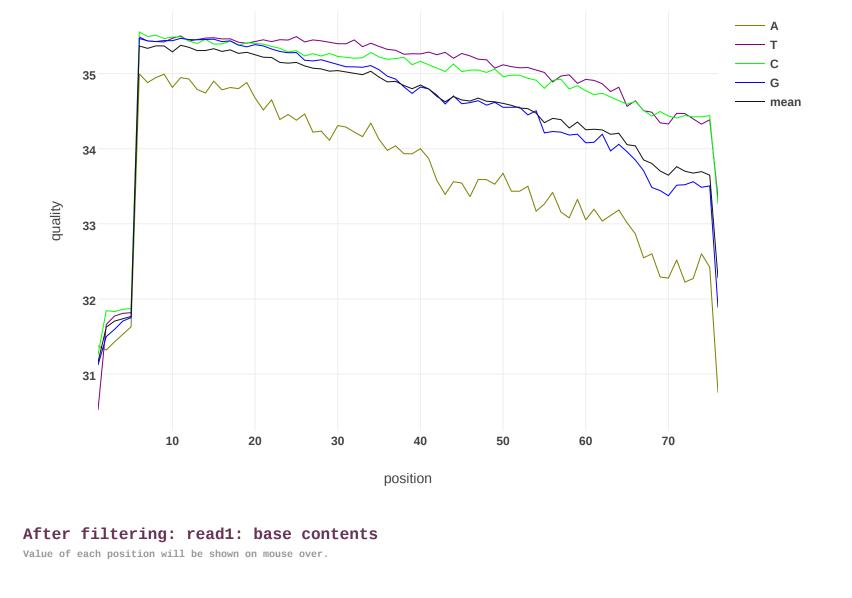
Before filtering: read1: base contents

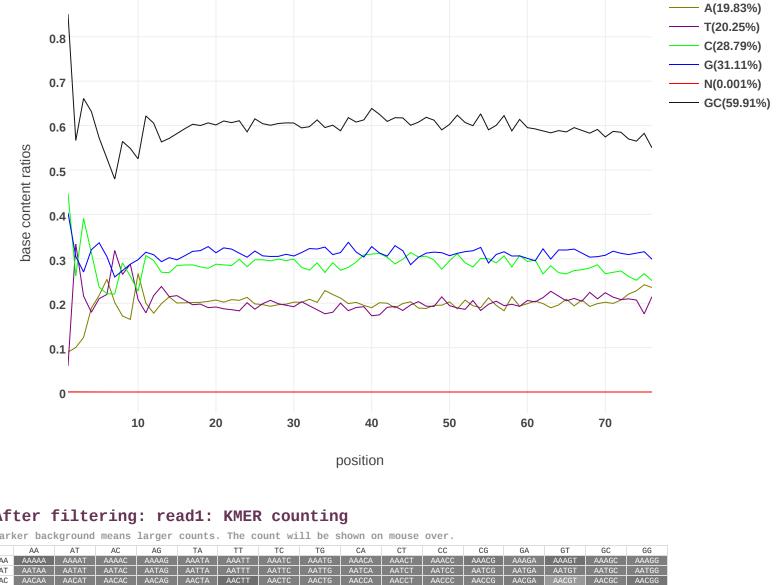
10



# 

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





Darl	cer bac	kground	l means	larger	counts	. The c	ount wi	.11 be s	hown on	mouse	over.					
AAA	AA AAAA	AT AAAAT	AC AAAAC	AG AAAAG	TA AAATA	TT AAATT	TC AAATC	TG AAATG	CA AAACA	CT AAACT	CC AAACC	CG AAACG	GA AAAGA	GT AAAGT	GC AAAGC	GG AAAGG
AAT	AATAA	AATAT	AATAC	AAAAG	AATTA	AATTT	AATTC	AATTG	AAACA	AATCT	AATCC	AAACG	AATGA	AAAGT	AAAGC	AAAGG
AAC	AACAA	AACAT	AACAC	AACAG	AACTA	AACTT	AACTC	AACTG	AACCA	AACCT	AACCC	AACCG	AACGA	AACGT	AACGC	AACGG
AAG ATA	AAGAA ATAAA	AAGAT ATAAT	AAGAC ATAAC	AAGAG ATAAG	AAGTA ATATA	AAGTT ATATT	AAGTC ATATC	AAGTG ATATG	AAGCA ATACA	AAGCT ATACT	AAGCC ATACC	AAGCG	AAGGA ATAGA	AAGGT ATAGT	AAGGC ATAGC	AAGGG 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 ACA	ATGAA ACAAA	ATGAT ACAAT	ATGAC ACAAC	ATGAG ACAAG	ATGTA ACATA	ATGTT ACATT	ATGTC ACATC	ATGTG ACATG	ATGCA ACACA	ATGCT ACACT	ATGCC ACACC	ATGCG ACACG	ATGGA ACAGA	ATGGT ACAGT	ATGGC ACAGC	ATGGG 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 AGA	ACGAA AGAAA	ACGAT AGAAT	ACGAC AGAAC	ACGAG AGAAG	ACGTA AGATA	ACGTT AGATT	ACGTC AGATC	ACGTG AGATG	ACGCA AGACA	ACGCT AGACT	ACGCC AGACC	ACGCG AGACG	ACGGA AGAGA	ACGGT AGAGT	ACGGC AGAGC	ACGGG 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 TAA	AGGAA TAAAA	AGGAT TAAAT	AGGAC TAAAC	AGGAG TAAAG	AGGTA TAATA	AGGTT TAATT	AGGTC TAATC	AGGTG TAATG	AGGCA TAACA	AGGCT TAACT	AGGCC TAACC	AGGCG TAACG	AGGGA TAAGA	AGGGT TAAGT	AGGGC TAAGC	AGGGG 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 TTA	TAGAA TTAAA	TAGAT TTAAT	TAGAC TTAAC	TAGAG TTAAG	TAGTA TTATA	TAGTT TTATT	TAGTC TTATC	TAGTG TTATG	TAGCA TTACA	TAGCT TTACT	TAGCC TTACC	TAGCG TTACG	TAGGA TTAGA	TAGGT TTAGT	TAGGC TTAGC	TAGGG 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 TCA	TTGAA TCAAA	TTGAT TCAAT	TTGAC TCAAC	TTGAG TCAAG	TTGTA TCATA	TTGTT TCATT	TTGTC TCATC	TTGTG TCATG	TTGCA TCACA	TTGCT TCACT	TTGCC TCACC	TTGCG TCACG	TTGGA TCAGA	TTGGT TCAGT	TTGGC TCAGC	TTGGG 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	тсстс	TCCTG	TCCCA	TCCCT	TCCCC	TCCCG	TCCGA	TCCGT	TCCGC	TCCGG
TCG TGA	TCGAA TGAAA	TCGAT TGAAT	TCGAC TGAAC	TCGAG TGAAG	TCGTA TGATA	TCGTT TGATT	TCGTC TGATC	TCGTG TGATG	TCGCA TGACA	TCGCT TGACT	TCGCC TGACC	TCGCG TGACG	TCGGA TGAGA	TCGGT TGAGT	TCGGC TGAGC	TCGGG TGAGG
TGT	TGTAA	TGTAT	TGTAC	TGTAG	TGTTA	TGTTT	TGTTC	TGTTG	TGTCA	TGTCT	TGTCC	TGTCG	TGTGA	TGTGT	TGTGC	TGTGG
TGC	TGCAA	TGCAT	TGCAC	TGCAG	TGCTA	TGCTT	TGCTC	TGCTG	TGCCA	TGCCT	TGCCC	TGCCG	TGCGA	TGCGT	TGCGC	TGCGG
TGG	TGGAA CAAAA	TGGAT CAAAT	TGGAC CAAAC	TGGAG CAAAG	TGGTA CAATA	TGGTT CAATT	TGGTC CAATC	TGGTG CAATG	TGGCA CAACA	TGGCT CAACT	TGGCC CAACC	TGGCG	TGGGA CAAGA	TGGGT CAAGT	TGGGC CAAGC	TGGGG
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 CTA	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	CTTAA	CTTAT	CTTAC	CTTAG	CTTTA	CTTTT	CTTTC	CTTTG	CTTCA	CTTCT	CTTCC	CTTCG	CTTGA	CTTGT	CTTGC	CTTGG
СТС	CTCAA	CTCAT	CTCAC	CTCAG	CTCTA	CTCTT	СТСТС	CTCTG	CTCCA	СТССТ	стссс	CTCCG	CTCGA	CTCGT	CTCGC	CTCGG
CTG	CTGAA CCAAA	CTGAT CCAAT	CTGAC CCAAC	CTGAG CCAAG	CTGTA CCATA	CTGTT CCATT	CTGTC CCATC	CTGTG CCATG	CTGCA CCACA	CTGCT CCACT	CTGCC	CTGCG	CTGGA CCAGA	CTGGT CCAGT	CTGGC CCAGC	CTGGG CCAGG
CCT	CCTAA	CCTAT	CCTAC	CCTAG	CCTTA	CCTTT	CCTTC	CCTTG	CCTCA	CCTCT	CCTCC	CCTCG	CCTGA	CCTGT	CCTGC	CCTGG
ССС	CCCAA	CCCAT	CCCAC	CCCAG	CCCTA	CCCTT	СССТС	CCCTG	CCCCA	CCCCT	ccccc	CCCCG	CCCGA	CCCGT	CCCGC	CCCGG
CCG CGA	CCGAA CGAAA	CCGAT CGAAT	CCGAC CGAAC	CCGAG CGAAG	CCGTA CGATA	CCGTT CGATT	CCGTC CGATC	CCGTG CGATG	CCGCA CGACA	CCGCT CGACT	CCGCC	CCGCG	CCGGA CGAGA	CCGGT CGAGT	CCGGC CGAGC	CCGGG 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 GAA	CGGAA GAAAA	CGGAT GAAAT	CGGAC GAAAC	CGGAG GAAAG	CGGTA GAATA	CGGTT GAATT	CGGTC GAATC	CGGTG GAATG	CGGCA GAACA	GAACT	CGGCC GAACC	CGGCG GAACG	CGGGA GAAGA	CGGGT GAAGT	CGGGC GAAGC	CGGGG GAAGG
GAA	GATAA	GATAT	GATAC	GATAG	GAATA	GAATT	GATTC	GATTG	GAACA	GATCT	GAACC	GAACG	GATGA	GAAGT	GATGC	GATGG
GAC	GACAA	GACAT	GACAC	GACAG	GACTA	GACTT	GACTC	GACTG	GACCA	GACCT	GACCC	GACCG	GACGA	GACGT	GACGC	GACGG
GAG GTA	GAGAA GTAAA	GAGAT GTAAT	GAGAC GTAAC	GAGAG GTAAG	GAGTA GTATA	GAGTT GTATT	GAGTC GTATC	GAGTG GTATG	GAGCA GTACA	GAGCT GTACT	GAGCC GTACC	GAGCG GTACG	GAGGA GTAGA	GAGGT GTAGT	GAGGC GTAGC	GAGGG GTAGG
GTT	GTTAA							GTTTG		GTTCT	GTTCC			GTTGT		
GTC	GTCAA	GTCAT	GTCAC	GTCAG	GTCTA	GTCTT	GTCTC	GTCTG	GTCCA	GTCCT	GTCCC	GTCCG	GTCGA	GTCGT	GTCGC	GTCGG
GTG GCA	GTGAA GCAAA	GTGAT GCAAT	GTGAC GCAAC	GTGAG GCAAG	GTGTA GCATA	GTGTT GCATT	GTGTC GCATC	GTGTG GCATG	GTGCA GCACA	GTGCT GCACT	GTGCC GCACC	GTGCG GCACG	GTGGA GCAGA	GTGGT GCAGT	GTGGC GCAGC	GTGGG GCAGG
GCA	GCTAA	GCAAT	GCAAC	GCAAG	GCTTA	GCTTT	GCTTC	GCTTG	GCTCA	GCTCT	GCTCC	GCTCG	GCTGA	GCAGT	GCAGC	GCAGG
GCC	GCCAA	GCCAT	GCCAC	GCCAG	GCCTA	GCCTT	GCCTC	GCCTG	GCCCA	GCCCT	GCCCC	GCCCG	GCCGA	GCCGT	GCCGC	GCCGG
GCG GGA	GCGAA GGAAA	GCGAT GGAAT	GCGAC GGAAC	GCGAG GGAAG	GCGTA GGATA	GCGTT GGATT	GCGTC GGATC	GCGTG GGATG	GCGCA GGACA	GCGCT GGACT	GCGCC GGACC	GCGCG GGACG	GCGGA GGAGA	GCGGT GGAGT	GCGGC GGAGC	GCGGG GGAGG
GGA	GGTAA	GGTAT	GGTAC	GGTAG	GGTTA	GGTTT	GGTTC	GGTTG	GGTCA	GGTCT	GGTCC	GGTCG	GGTGA	GGAGT	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