Occurrences Sequence AAAAA 87514 AATGAT 50135 42853 **AGATGT** 46976 CAAGCA 85010 **CTGTCT** 47672 **TACACT** 88002 TTTTTT 177231 CTCTCTCT 167833 CTCTCTCTCTCTCT 3067920 other adapter sequences Duplication duplication rate (54.422938%) Read percent (%) cent (%) & GC ratio 80 Mean GC ratio (%) Read per 20 30 5 10 **15** 20 25 duplication level Insert size estimation Insert size distribution (99.337579% reads are with unknown length) 0.02 Read percent (%) **10.0 200.0 50** 100 150 200 250 Insert size This estimation is based on paired-end overlap analysis, and there are 99.337579% reads found not overlapped. The nonoverlapped read pairs may have insert size <30 or >272, or contain too much sequencing errors to be detected as overlapped. Before filtering Before filtering: read1: quality Value of each position will be shown on mouse over. 36 ---- mean 34 32 quality 30 28 26 20 40 **60** 80 100 120 140 position Before filtering: read1: base contents Value of each position will be shown on mouse over. - A(22.22%) 0.4 T(22.60%) C(17.03%) - G(16.65%) N(21.48%) - GC(33.68%) base content ratios 0.3 0.2 20 80 100 120 140 position 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 AATAA AATAT AATAC AATAG AATTA AATTT AATTC AATTG AATCA AATCT AATCC AATCG AATGA AATGT AATGC AATGC AATGC 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 ATAAA ATAAT ATAAC ATAAG ATATA ATATT ATATC ATATG ATACA ATACT ATACC ATACG ATAGA ATAGT ATAGC ATAGG 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 ATCCG ATCGA ATCGT ATCGC ATCGC ATGAA ATGAT ATGAC ATGAG ATGTA ATGTT ATGTC ATGTG ATGCA ATGCT ATGCC ATGCG ATGCG ATGGA ATGGT ATGGC ATGGG ACA ACAAA ACAAT ACAAC ACAAG ACATA ACATT ACATC ACATG ACACA ACACT ACACC ACACG ACAGA ACAGT ACAGC ACAGG ACTAA | ACTAT | ACTAC | ACTAG | ACTTA | ACTTT | ACTTC | ACTTG | ACTCA | ACTCT | ACTCC | ACTCG | ACTGA | ACTGT | ACTGC | ACTGG ACCAA ACCAT ACCAC ACCAG ACCAA ACCTT ACCTC ACCTG ACCCA ACCCT ACCCC ACCCG ACCGA ACCGT ACCGC ACCGG ACGAA ACGAT ACGAC ACGAG ACGTA ACGTT ACGTC ACGTG ACGCA ACGCT ACGCC AGA AGAAA AGAAT AGAAC AGAAG AGATA AGATT AGATC AGATG AGACA AGACT AGACC AGACG AGAGA AGAGT AGAGC AGAGG AGTAA AGTAT AGTAC AGTAG AGTTA AGTTT AGTTC AGTTG AGTCA AGTCT AGTCC AGTCG AGTCA AGTCT AGTCC AGTCG 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 AGGGC AGGGC TAAAA TAAAT TAAAC TAAAG TAATA TAATT TAATC TAATG TAACA TAACT TAACC TAACG TAAGA TAAGT TAAGC TAAGG TATAA TATAT TATAC TATAG TATTA TATTT TATTC TATTG TATCA TATCT TATCC TATCG TATGA TATGT TATGC TATGC TACAA TACAT TACAC TACAG TACTA TACTT TACTC TACTG TACCA TACCT TACCC TACCG TACGA TACGT TACGC TACGC 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 | TITAA | TITAT | TITAC | TITAG | TITTA | TITIT | TITTC | TITTG | TITCA | TITCT | TITCC | TITCG | TITGA | TITGT | TITGC | TITGG TTCAA TTCAT TTCAC TTCAG TTCTA TTCTT TTCTC TTCTG TTCCA TTCCT TTCCC TTCCG TTCGA TTCGT TTGAA TTGAT TTGAC TTGAG TTGTA TTGTT TTGTC TTGTG TTGCA TTGCT TTGCC TTGCG TTGGA TTGGT TTGGC TTGGC TCA TCAAA TCAAT TCAAC TCAAG TCATA TCATT TCATC TCATG TCACA TCACT TCACC TCACG TCAGA TCAGT TCAGC TCAGG TCTAA TCTAT TCTAC TCTAG TCTTA TCTTT TCTTC TCTTG TCTCA TCTCT TCTCC TCTCG TCTGA TCTGT TCTGC TCTGC TCTGC 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 TCGGC TGAAA TGAAT TGAAC TGAAG TGATA TGATT TGATC TGATG TGACA TGACT TGACC TGACG TGAGA TGAGT TGAGC TGAGG TGTAA TGTAT TGTAC TGTAG TGTTA TGTTT TGTTC TGTTG TGTCA TGTCT TGTCC TGTCG TGTGA <mark>TGTGT</mark> TGTGC TGTGG TGCAA TGCAT TGCAC TGCAG TGCTA TGCTT TGCTC TGCTG TGCCA TGCCT TGCCC TGCCG TGCGA TGCGT TGCGC TGCGG TGGAA TGGAT TGGAC TGGAG TGGTA TGGTT TGGTC TGGTG TGGCA TGGCT TGGCC TGGCG TGGGA TGGGT TGGGC TGGGC 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 CATCG CATGA CATGT CATGC CATGC CACAA CACAT CACAC CACAG CACTA CACTT CACTC CACTG CACCA CACCT CACCC CACCG CACGA CACGT CACGC CACGG 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 CTG CTGAA CTGAT CTGAC CTGAG CTGTA CTGTT CTGTC CTGTG CTGCA CTGCT CTGCC CTGCG CTGCA CTGCT CTGCC CTGCA CTGCC CTGCG 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 CCTCG CCTGA CCTGT CCTGC CCTGG CCC CCCAA | CCCAT | CCCAC | CCCAG | CCCTA | CCCTT | CCCTC | CCCCG | CCCCCA | CCCCC | CCCCG | CCCGA | CCCGT | CCCGC | CCCGG CCG CCGAA CCGAT CCGAC CCGAG CCGTA CCGTT CCGTC CCGTG CCGCA CCGCT CCGCC CGA CCGAA CCGAT CCGAC CCGAA CCGAT CCGAC CCGAC CCGCC CGAA CCGAA CGAAT CGAAC CGAAG CGATA CGATT CGATC CGATG CGACA CGACT CGACC CGT CGTAA CGTAT CGTAC CGTAG CGTA CGTTT CGTTC CGTTC CGTCC CGC CGCAA CGCAT CGCAC CGCAG CGCTA CGCTT CGCTC CGCTG CGCCA CGCCT CGCCC CGG CGGAA CGGAT CGGAC CGGAG CGGTA CGGTT CGGTC CGGTG CGGCA CGGCT CGGCC GAA GAAAA GAAAT GAAAC GAAAG GAATA GAATT GAATC GAATG GAACA GAACT GAACC GAACG GAAGA GAAGT GAAGC GAAGG GATAA GATAT GATAC GATAG GATTA GATTT GATTC GATTG GATCA GATCT GATCC 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 GTAAA GTAAT GTAAC GTAAG GTATA GTATT GTATC GTATG GTACA GTACT GTACC 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 GTCCA GTCCC GTCCG GTCCG GTCGA GTCGT GTCGC GTCGC 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 GCTAA | GCTAT | GCTAC | GCTAG | GCTTA | GCTTT | GCTTC | GCTTG | GCTCA | GCTCT | GCTCC | GCTCG | GCTGA | GCTGT | GCTGC | GCTGG GCCAA GCCAT GCCAC GCCAG GCCTA GCCTT GCCTC GCCTG GCCCA GCCCT GCCCC GCCCG GCCGA GCCGT GCCGC GCCGG 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 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 GGGGC Before filtering: read1: overrepresented sequences Sampling rate: 1 / 20 overrepresented sequence count (% of bases) distribution: cycle 1 ∼ cycle 151 not found Before filtering: read2: quality Value of each position will be shown on mouse over. - mean 30 28 26 20 40 60 80 100 120 140 position Before filtering: read2: base contents Value of each position will be shown on mouse over. —— A(22.33%) 0.4 — T(22.83%) C(17.53%) G(16.59%) N(20.69%) WW////// — GC(34.13%) base content ratios 0.2 20 80 100 120 140 position Before filtering: read2: KMER counting Darker background means larger counts. 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AA AT AC AG TA TT TC TG CA CT CC CG AAA AAAAA AAAAT AAAAC AAAAG AAATA AAATT AAATC AAATG AAACA AAACT AAACC AAACG AAAGA AAAGT AAAGC AAAGG AATAA | AATAT | AATAC | AATAG | AATTA | AATTT | AATTC | AATTG | AATCA | AATCT | AATCC | AATCG | AATGA | AATGT | AATGC | AATGG 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 ATTAA | ATTAT | ATTAC | ATTAG | ATTTA | ATTTT | ATTTC | ATTTG | ATTCA | ATTCC | ATTCG | ATTGA | ATTGT | ATTGC | ATTGG ATCAA ATCAT ATCAC ATCAG ATCTA ATCTT ATCTC ATCTG ATCCA ATCCT ATCCC ATCCG ATCCG ATCGA ATCGT ATCGC ATCGC ATG ATGAA ATGAT ATGAC ATGAG ATGTA ATGTT ATGTC ATGTG ATGCA ATGCT ATGCC ATGCG ATGCG ATGGA ATGGT ATGGC ATGGG ACA ACAAA ACAAA ACAAA ACAAA ACAAA ACAAA ACAAA ACAATA ACAATA ACAATA ACAATA ACAACA ACACA ACACA ACACA ACACA ACAGA ACA ACTAA ACTAT ACTAC ACTAG ACTTA ACTTT ACTTC ACTTG ACTCA ACTCT ACTCC ACTCG ACTCG ACTGA ACTGT ACTGC ACTGG ACCAA | ACCAT | ACCAC | ACCAG | ACCTA | ACCTT | ACCTC | ACCTG | ACCCA | ACCCT | ACCCC | ACCCG | ACCGA | ACCGT | ACCGC | ACCGG ACGAA ACGAT ACGAC ACGAG ACGTA ACGTT ACGTC ACGTG ACGCA ACGCT ACGCC AGAAA AGAAT AGAAC AGAAG AGATA AGATT AGATC AGATG AGACA AGACT AGACC AGACG AGAGA AGAGT AGAGC AGAGG AGTAA AGTAT AGTAC AGTAG AGTTA AGTTT AGTTC AGTTG AGTCA AGTCT AGTCC AGTCG AGTGA AGTGT AGTGC AGTGC AGTGC AGTGC AGCAA | AGCAT | AGCAC | AGCAG | AGCTA | AGCTT | AGCTC | AGCTG | AGCCA | AGCCT | AGCCC | AGCCG | AGCGA | AGCGT | AGCGC | AGCGG 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 TATAA | TATAT | TATAC | TATAG | TATTA | TATTT | TATTC | TATTG | TATCA | TATCT | TATCC | TATCG | TATGA | TATGT | TATGC | TATGG TACAA TACAT TACAC TACAG TACTA TACTT TACTC TACTG TACCA TACCT TACCC TACCG TACGA TACGT TAG TAGAA TAGAT TAGAC TAGAG TAGTA TAGTT TAGTC TAGTG TAGTG TAGCA TAGCC TAGCG TAGCG TAGGA TAGGT TAGGC TAGGG TTA TTAAA TTAAT TTAAC TTAAG TTATA TTATT TTATC TTATG TTACA TTACT TTACC TTACG TTAGA TTAGT TTAGC TTAGG TTAGC TTAGG TTTAA TTTAT TTTAC TTTAG TTTTA TTTTT TTTTC TTTTG TTTCA TTTCT TTTCC TTTCG TTTGA TTTGT TTTGC TTTGC TTCAA | TTCAT | TTCAC | TTCAG | TTCTA | TTCTT | TTCTC | TTCTG | TTCCA | TTCCT | TTCCC | TTCCG | TTCGA | TTCGT | TTCGC | TTCGG TTGAA TTGAT TTGAC TTGAG TTGTA TTGTT TTGTC TTGTG TTGCA TTGCT TTGCC TTGCG TTGGA TTGGT TTGGC TTGGG 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 TCCGC 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 TGTAA | TGTAT | TGTAC | TGTAG | TGTTA | TGTTT | TGTTC | TGTTG | TGTCA | TGTCT | TGTCC | TGTCG | TGTGA | TGTGT | TGTGC | TGTGG TGCAA TGCAT TGCAC TGCAG TGCTA TGCTT TGCTC TGCTG TGCCA TGCCT TGCCC TGCCG TGCGA TGCGT TGCGC TGCGG 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 CATAA CATAT CATAC CATAG CATTA CATTT CATTC CATTG CATCA CATCT CATCC CATCG CATGA CATGT CATGC CATGG CACAA CACAT CACAC CACAG CACTA CACTT CACTC CACTG CACCA CACCT CACCC CACCG CACGA CACGT CACGC CACGC CACGA Before filtering: read2: overrepresented sequences Sampling rate: 1 / 20 distribution: cycle 1 ~ cycle 151 overrepresented sequence count (% of bases) not found After filtering After filtering: read1: quality Value of each position will be shown on mouse over. 36 - mean 35.5 35 34 33.5 20 40 **60** 80 100 120 140 position After filtering: read1: base contents Value of each position will be shown on mouse over. A(28.67%) T(28.61%) C(21.45%) — G(21.24%) N(0.016%) GC(42.70%) base content ratios 0.1 20 **40 60** 80 100 120 140 position After filtering: read1: KMER counting Darker background means larger counts. The count will be shown on mouse over. AACAA | AACAT | AACAC | AACAG | AACTA | AACTT | AACTC | AACTG | AACCA | AACCT | AACCC | AACCG | AACGA | AACGT | AACGC | AACGG ATAAT ATAAC ATAAG ATATA ATATT ATATC ATATG ATACA ATACT ATACC ATACG ATAGA ATAGT ATAGC ATAGG ACAAT | ACAAC | ACAAG | ACATA | ACATT | ACATC | ACATG | ACACA | ACACT | ACACC | ACACG | ACAGA | ACAGT | ACCAT ACCAC ACCAG ACCTA ACCTT ACCTC ACCTG ACCCA ACCCA ACCCC AGCAA | AGCAT | AGCAC | AGCAG | AGCTA | AGCTT | AGCTC | AGCTG | AGCCA | AGCCT | AGCCC | AGCCG | AGCGA | AGCGT | AGCGC | AGCGC AGGAA AGGAT AGGAC AGGAG AGGTA AGGTT AGGTC AGGTG AGGCA AGGCT AGGCC AGGCG AGGGA AGGGT TAAAA TAAAT TAAAC TAAAG TAATA TAATT TAATC TAATG TAACA TAACT TAACC TAACG TAAGA TAAGT TAAGC TAAGG TATAA TATAT TATAC TATAG TATTA TATTT TATTC TATTG TATCA TATCT TATCC TATCG TATGA TATGT TCCAA | TCCAT | TCCAC | TCCAG | TCCTA | TCCTT | TCCTC | TCCTG | TCCCA | TCCCT | TCCCC | TCCCG | TCCGA | TCCGT | TCCGC | TCCGG TCGAA | TCGAT | TCGAC | TCGAG | TCGTA | TCGTT | TCGTC | TCGTG | TCGCA | TCGCT | TCGCC | TGAAA TGAAT TGAAC TGAAG TGATA TGATT TGATC TGATG TGACA TGACT TGACC TGACG TGAGA TGAGA TGAGC TGAGG TGTAA TGTAT TGTAC TGTAG TGTTA TGTTT TGTTC TGTTG TGTCA TGTCT TGTCC TGTCG TGTGA TGCAA | TGCAT | TGCAC | TGCAG | TGCTA | TGCTT | TGCTC | TGCTG | TGCCA | TGCCT | TGCCC | TGCCG | TGCGA | TGCGT | TGCGC | TGCGG CATAA CATAT CATAC CATAG CATTA CATTT CATTC CATTG CATCA CATCT CATCC CATCG CATGA CATGT CTCAA | CTCAT | CTCAC | CTCAG | CTCTA | CTCTT | CTCTC | CTCTG | CTCCA | CTCCT | CTCCC | CTCCG | CTCGA | CTCGT | CTCGC | CTCGG CCAAA CCAAT CCAAC CCAAG CCATA CCATT CCATC CCATG CCACA CCACT CCACC CCACG CCAGA CCAGT CCAGC CCAGG CCTAA | CCTAT | CCTAC | CCTAG | CCTTA | CCTTT | CCTTC | CCTCA | CCTCT | CCTCC | CCTCG | CCTGA | CCTGT | CCTGC | CCTGG CGAAA | CGAAT | CGAAC | CGAAG | CGATA | CGATT | CGATC CGATG CGACA CGACT CGACC CGCAA | CGCAT | CGCAC | CGCAG | CGCTA | CGCTT | CGCTC | CGCTG | CGCCA | CGCCT | CGCCC | CGGAA CGGAT CGGAC CGGAG CGGTA CGGTT CGGTC CGGTG CGGCA CGGCT CGGCC GAAAA | GAAAT | GAAAC | GAAAG | GAATA | GAATT | GAATC | GAATG | GAACA | GAACT | GAACC | GATAA GATAT GATAC GATAG GATTA GATTT GATTC GATTG GATCA GATCT GATCC GACAA GACAT GACAC GACAG GACTA GACTT GACTC GACTG GACCA GACCT GACCC GACCG GACGA GACGT GACGC GACGG GAGAA GAGAT GAGAC GAGAG GAGTA GAGTT GAGTC GAGCA GAGCT GAGCC GAGCG GAGGA GAGGT GTAAA GTAAT GTAAC GTAAG GTATA GTATT GTATC GTATG GTACA GTACT GTACC GTACG GTAGA GTAGT GTAGC GTAGG GTTAA GTTAT GTTAC GTTAG GTTTA GTTTC GTTTG GTTCA GTTCT GTTCC GTTCG GTTCA GTTGA GTTGT GTTGC GTTGG GTCAA | GTCAT | GTCAC | GTCAG | GTCTA | GTCTT | GTCTC | GTCTG | GTCCA | GTCCT | GTCCC | GTCCG | GTCGA | GTCGT | GTGTG GTGCA GTGCT GTGCC GTGCG GTGGA GTGGT GTGGC GTGGG GCAAA GCAAT GCAAC GCAAG GCATA GCATT GCATC GCATG GCACA GCACT GCACC GCACG GCAGA GCAGT GCAGC GCAGG GGTAA GGTAT GGTAC GGTAG GGTTA GGTTT GGTTC GGTTG GGTCA GGTCT GGTCC GGTCG GGTCA GGTGA GGTGT GGTGC GGTGG GGCAA GGCAT GGCAC GGCAG GGCTA GGCTT GGCTC GGCTG GGCCA GGCCT GGCCC GGCCG GGCGA GGCGT GGCGC GGCGC After filtering: read1: overrepresented sequences Sampling rate: 1 / 20 distribution: cycle 1 ~ cycle 151 overrepresented sequence count (% of bases) not found After filtering: read2: quality Value of each position will be shown on mouse over. 36 35.5 mean 35 33 32.5 20 40 **60** 80 100 140 120 position After filtering: read2: base contents Value of each position will be shown on mouse over. 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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 AATTC AATTC AATCC AATCG AATCG AATGA AATGT AATGC AATGC AATGG AACAA AACAT AACAC AACAG AACTA AACTT AACTC AACTG AACCA AACCT AACCC AACCG AACGA AACGT AACGC AACGG AAGAA AAGAT AAGAC AAGAG AAGTA AAGTT AAGTC AAGTG AAGCA AAGCT AAGCC AAGCG AAGGA AAGGT AAGGC AAGGG ATA ATAAA ATAAA ATAAAC ATAAG ATATA ATATT ATATC ATATG ATACA ATACA ATACC ATACG ATACG ATAGA ATAGT ATAGC ATAGC ATAGG ATTAA ATTAT ATTAC ATTAG ATTTA ATTTT ATTTC ATTTG ATTCA ATTCT ATTCC ATTCG ATTGA ATTGT ATTGC ATTGG 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 ATGCA ATGGA ATGGT ATGGC ATGGG ACA ACAAA ACAAT ACAAC ACAAG ACATA ACATT ACATC ACATG ACACA ACACT ACACC ACACG ACAGA ACAGT ACAGC ACAGG ACTAA ACTAT ACTAC ACTAG ACTTA ACTTT ACTTC ACTTG ACTCA ACTCT ACTCC ACTCG ACTGA ACTGT ACTGC ACTGC ACTGC ACCAA | ACCAT | ACCAC | ACCAG | ACCTA | ACCTT | ACCTC | ACCTG | ACCCA | ACCCT | ACCCC | ACCGG | ACCGA | ACCGT | ACCGC | ACCGG ACG ACGAA ACGAT ACGAC ACGAG ACGTA ACGTT ACGTC ACGTG ACGCA ACGCT ACGCC AGAAA AGAAT AGAAC AGAAG AGATA AGATT AGATC AGATG AGACA AGACT AGACC AGACG AGAGA AGAGT AGAGC AGAGG AGTAA | AGTAT | AGTAC | AGTAG | AGTTA | AGTTT | AGTTC | AGTTG | AGTCA | AGTCT | AGTCC | AGTCG | AGTGA | AGTGT | AGTGC | AGTGG AGCAA AGCAT AGCAC AGCAG AGCTA AGCTT AGCTC AGCTG AGCCA AGCCT AGCCC AGCCG AGCGA AGCGT AGCGC AGCGG 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 TATAA TATAT TATAC TATAG TATTA TATTT TATTC TATTG TATCA TATCT TATCC TATCG TATGA TATGT TATGC TATGC TATGC TACAA | TACAT | TACAC | TACAG | TACTA | TACTT | TACTC | TACTG | TACCA | TACCT | TACCC | TACCG | TACGA | TACGT | TACGC | TACGG TAG TAGAA TAGAT TAGAC TAGAG TAGAG TAGTA TAGTT TAGTC TAGTG TAGCA TAGCA TAGCC TAGCG TAGCA 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 TTTCC TTTCC TTTCG TTTGA TTTGT TTTGC TTTGG TTCAA | TTCAT | TTCAC | TTCAG | TTCTA | TTCTT | TTCTC | TTCTG | TTCCA | TTCCT | TTCCC | TTCCG | TTCGA | TTCGT | TTCGC | TTCGG TTGAA | TTGAT | TTGAC | TTGAG | TTGTA | TTGTT | TTGTC | TTGTG | TTGCA | TTGCT | TTGCC | TTGCG | TTGGA | TTGGT | TTGGC | TTGGG TCAAA TCAAT TCAAC TCAAG TCATA TCATT TCATC TCATG TCACA TCACT TCACC TCACG TCAGA TCAGT TCAGC TCAGC TCT | TCTAA | TCTAT | TCTAC | TCTAG | TCTTA | TCTTT | TCTTC | TCTTG | TCTCA | TCTCT | TCTCC | TCTCG | TCTGA | TCTGT | TCTGC | TCTGG TCCAA TCCAT TCCAC TCCAG TCCTA TCCTT TCCTC TCCTG TCCCA TCCCT TCCCC TCCCG TCCCG TCCGA TCCGT TCCGC TCCGC TCGAA | TCGAT | TCGAC | TCGAG | TCGTA | TCGTT | TCGTC | TCGTG | TCGCA | TCGCT | TCGCC | TGA TGAAA TGAAT TGAAC TGAAG TGATA TGATT TGATC TGATG TGATG TGACA TGACC TGACG TGAGA TGAGT TGAGC TGAGG TGTAA TGTAT TGTAC TGTAG TGTTA TGTTT TGTTC TGTTG TGTCA TGTCT TGTCC TGTCG TGTGA <mark>TGTGT</mark> TGTGC TGTGG 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 | TGGCC | TGGGC 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 CACAA CACAT CACAC CACAG CACTA CACTT CACTC CACTG CACCA CACCT CACCC CACCG CACGA CACGT CACGC CACGC CACGA CAGAA CAGAT CAGAC CAGAG CAGTA CAGTT CAGTC CAGTG CAGCA CAGCT CAGCC CAGCG CAGGA CAGGT CAGGC CAGGG 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 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 CCTAA CCTAT CCTAC CCTAG CCTTA CCTTT CCTTC CCTTG CCTCA CCTCT CCTCC CCTCG CCTGA CCTGT CCTGC CCTGG CCCAA | CCCAT | CCCAC | CCCAG | CCCTA | CCCTT | CCCTC | CCCTG | CCCCA | CCCCT | 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 CGT CGTAA CGTAT CGTAC CGTAG CGTAC CGTCC CGTGA CGTGT CGTGC CGTGG CGC | CGCAA | CGCAT | CGCAC | CGCAG | CGCTA | CGCTT | CGCTC | CGCTG | CGCCA | CGCCT | CGCCC | CGCCG | CGCGA | CGCGT | CGCGC | CGCGC | CGGAA CGGAT CGGAC CGGAG CGGTA CGGTT CGGTC CGGTG CGGCA CGGCT CGGCC CGGCG CGGGA CGGGT CGGCC CGGGG GAAAA GAAAT GAAAC GAAAG GAATA GAATT GAATC GAATG GAACA GAACT GAACC GAACG GAAGA GAAGT GAAGC GAAGG GATAA | GATAT | GATAC | GATAG | GATTA | GATTT | GATTC | GATTG | GATCA | GATCT | GATCC | GATCG | GATGA | GATGT | GATGC | GATGG GACAA GACAT GACAC GACAG GACTA GACTT GACTC GACTG GACCA GACCT GACCC GACCG GACGA GACGT GACGC GACGG 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 GTTAA GTTAT GTTAC GTTAG GTTTA GTTTT GTTTC GTTTG GTTCA GTTCT GTTCC GTTCC GTTCG GTTCA GTTGA GTTGT GTTGC GTTGC 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 GTGCC GTGCG GTGCA GTGGA GTGGT GTGGC GTGGG GCA GCAAA GCAAT GCAAC GCAAG GCATA GCATT GCATC GCATG GCACA GCACT GCACC GCACG GCAGA GCAGT GCAGC GCAGG 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 GCGCA GCGCT GCGCC GCGCG GCGCA GCGCC GCGCG GCGCA GCCA GCACA GCA 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: read2: overrepresented sequences Sampling rate: 1 / 20 overrepresented sequence count (% of bases) distribution: cycle 1 ~ cycle 151 not found fastp --stdin --stdout --interleaved_in --adapter_fasta=/home/rfitak/.bin/adapters.fa --cut_front --cut_tail --cut_window_size=4 --cut_mean_quality=20 --qualified_quality_phred=20 --average_qual=20 --unqualified_percent_limit=30 --n_base_limit=5 --length_required=50 --low_complexity_filter --complexity_threshold=30 --overrepresentation_analysis --trim_poly_x --poly_x_min_len=10 --html=SRR7973880.html --report_title=SRR7973880 --thread=24 fastp 0.20.0, at 2024-11-19 05:18:22

SRR7973880

mean length before filtering:

mean length after filtering:

0.20.0 (https://github.com/OpenGene/fastp)

paired end (151 cycles + 151 cycles)

138bp, 138bp

130bp, 130bp

451.413450 M

62.563999 G

33.910754%

251.128204 M

32.741591 G

42.730511%

The input has little adapter percentage (~0.307789%), probably it's trimmed before.

The input has little adapter percentage (~0.240199%), probably it's trimmed before.

45.854462 G (73.292088%)

42.008316 G (67.144550%)

31.164613 G (95.183562%)

28.810100 G (87.992364%)

251.128204 M (55.631529%)

167.485482 M (37.102457%)

Occurrences

88206

47954

47884

82388

47300

82656

173865

171175

749438

3060387

30.868710 M (6.838234%)

3.136000 K (0.000695%)

1.927918 M (0.427085%)

54.422938%

151

Summary

General

fastp version:

duplication rate:

Insert size peak:

total reads:

total bases:

Q20 bases:

Q30 bases:

GC content:

total reads:

total bases:

Q20 bases:

Q30 bases:

GC content:

Before filtering

After filtering

Filtering result

reads passed filters:

reads with low quality:

reads with too many N:

reads with low complexity:

Adapter or bad ligation of read1

reads too short:

Adapters

Sequence

AAAAAA

AATGAT

CAAGCA

CTGTCT

TACACT

TTTTTT

CTCTCTCT

CTCTCTCTCTCTCT

other adapter sequences

GTGACTGGAGTTCAGACGTGTGCTCTTCCGATC

Adapter or bad ligation of read2

sequencing: