



##FastQC 0.11.2

>>Basic Statistics pass

#Measure Value

Filename stdin

File type Conventional base calls

Encoding Sanger / Illumina 1.9

Total Sequences 36473676

Sequences flagged as poor quality 0

Sequence length 15-100

%GC 69

>>END_MODULE

>>Per base sequence quality fail

#Base	Mean	Median	Lower Quartile	Upper Quartile	10th Percentile	90th Percentile
1	32.528173688881814	34.0	31.0	34.0	31.0	34.0
2	32.649483287618175	34.0	31.0	34.0	31.0	34.0
3	32.70421621335892	34.0	31.0	34.0	31.0	34.0
4	36.11942371808095	37.0	35.0	37.0	35.0	37.0
5	35.99527936257371	37.0	35.0	37.0	35.0	37.0
6	35.93709295986508	37.0	35.0	37.0	35.0	37.0
7	35.886118224003525	37.0	35.0	37.0	35.0	37.0
8	35.872727141624004	37.0	35.0	37.0	35.0	37.0
9	37.61462433893419	39.0	37.0	39.0	35.0	39.0
10-11	37.54925331628213	39.0	37.0	39.0	35.0	39.0
12-13	37.53253350443755	39.0	37.0	39.0	35.0	39.0
14-15	38.841635869112835	40.5	38.0	41.0	35.0	41.0
16-17	38.761195934394706	40.0	38.0	41.0	34.0	41.0
18-19	38.670462913263286	40.0	38.0	41.0	34.0	41.0
20-21	38.45176880368335	40.0	38.0	41.0	33.0	41.0
22-23	38.15276758344763	40.0	37.5	41.0	33.0	41.0
24-25	37.827251478537164	40.0	37.0	41.0	33.0	41.0
26-27	37.376443947615066	40.0	35.5	41.0	32.0	41.0
28-29	36.811106266975315	39.0	35.0	41.0	31.0	41.0
30-31	36.291816846314205	38.5	35.0	41.0	30.5	41.0
32-33	35.7149789602498	37.5	35.0	41.0	29.5	41.0
34-35	35.25253032734574	36.5	34.5	40.5	28.5	41.0
36-37	34.83153210328726	35.0	34.0	40.0	27.0	41.0

38-39	34.501419710922676	35.0	33.5	40.0	26.0	41.0
40-41	34.08347834206494	35.0	33.0	40.0	24.5	41.0
42-43	33.711020966406956	35.0	33.0	39.5	23.0	41.0
44-45	33.48167626422361	35.0	33.0	39.0	23.0	41.0
46-47	33.25657584858637	35.0	33.0	38.5	23.0	41.0
48-49	32.91969040983423	35.0	33.0	38.0	22.5	41.0
50-51	32.68419282212449	35.0	33.0	37.0	22.0	41.0
52-53	32.315148935867605	35.0	33.0	37.0	20.0	41.0
54-55	31.988745877390176	35.0	33.0	36.0	20.0	41.0
56-57	31.696584442185767	35.0	32.5	35.0	20.0	40.0
58-59	31.45259146072224	35.0	32.0	35.0	20.0	40.0
60-61	31.176355558708394	35.0	31.0	35.0	18.0	40.0
62-63	30.76882586886185	35.0	31.0	35.0	15.0	39.0
64-65	30.492291494475424	35.0	31.0	35.0	11.0	39.0
66-67	30.156242792661295	35.0	30.0	35.0	6.0	38.5
68-69	29.75453556553473	35.0	29.5	35.0	2.0	37.5
70-71	29.42111985687206	35.0	29.5	35.0	2.0	37.0
72-73	28.874336015878377	34.5	29.0	35.0	2.0	36.5
74-75	28.22612428332313	34.0	27.0	35.0	2.0	36.0
76-77	23.33123304033135	27.0	18.5	31.5	2.0	34.0
78-79	26.75320503139816	33.0	24.0	35.0	2.0	35.0
80-81	27.027317630963694	33.0	24.0	35.0	2.0	35.0
82-83	26.759860332033007	33.0	24.0	35.0	2.0	35.0
84-85	26.61366154977167	33.0	24.0	35.0	2.0	35.0
86-87	26.18946367430933	33.0	21.5	35.0	2.0	35.0
88-89	25.974917498754692	33.0	20.0	35.0	2.0	35.0
90-91	25.70866006320914	33.0	20.0	35.0	2.0	35.0
92-93	25.39966920628133	33.0	19.0	35.0	2.0	35.0
94-95	24.74668492958249	33.0	10.0	35.0	2.0	35.0
96-97	24.21795797700966	33.0	2.0	35.0	2.0	35.0
98-99	23.44736159989386	33.0	2.0	35.0	2.0	35.0
100	19.496187478408313	25.0	2.0	33.0	2.0	35.0

>>END_MODULE

>>Per tile sequence quality pass

#Tile	Base	Mean
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2306	1	0.1830089346302728
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2306	2	0.24395050521621187
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2306	3	0.22442358374662774
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2306	4	0.18062416627501676
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2306	5	0.16414490821064476
2306	6	0.18785857177422116
2306	7	0.23725155092588324
2306	8	0.21965299835456165
2306	9	0.26807891136616036
2306	10-11	0.24437272367061524
2306	12-13	0.257724597913942
2306	14-15	0.3283851510168674
2306	16-17	0.24789126964204655
2306	18-19	0.2772153814065632
2306	20-21	0.12186059869605259
2306	22-23	0.08284196377591257
2306	24-25	0.06371576509452126
2306	26-27	-0.19821638340108194
2306	28-29	-0.29682030265451687
2306	30-31	-0.40696395959515996
2306	32-33	-0.5740288060836889
2306	34-35	-0.5852475355638376
2306	36-37	-0.7626061410723537
2306	38-39	-0.8196289682121858
2306	40-41	-0.9524472419454142
2306	42-43	-1.1599275576240657
2306	44-45	-1.155294895143598
2306	46-47	-1.2659773380006172
2306	48-49	-1.476296855779342
2306	50-51	-1.549657049205294
2306	52-53	-1.7029762363062488
2306	54-55	-1.8342678077151469
2306	56-57	-1.8616251651556581
2306	58-59	-1.8762811289011516
2306	60-61	-1.980955622809475
2306	62-63	-2.1795097052813937
2306	64-65	-2.4393276479339825
2306	66-67	-2.580198930656273
2306	68-69	-2.6484060778104777
2306	70-71	-2.795095541381574
2306	72-73	-3.0949554986433085
2306	74-75	-3.21558686059387
2306	76-77	-4.086300854883774

2306	78-79	-3.6973889499877686
2306	80-81	-3.580694408263277
2306	82-83	-3.4850228059308392
2306	84-85	-3.584491940877964
2306	86-87	-3.826046207725316
2306	88-89	-3.882563060873867
2306	90-91	-3.993257157027241
2306	92-93	-4.020339384487215
2306	94-95	-4.15971066835483
2306	96-97	-4.27224324586059
2306	98-99	-4.359186208478462
2306	100	-4.161224185170825
2307	1	0.15259920370708357
2307	2	0.1885416650826528
2307	3	0.2144737458672097
2307	4	0.2091626508649469
2307	5	0.1724423078012407
2307	6	0.16460374000894262
2307	7	0.17440384891533967
2307	8	0.1640977189925792
2307	9	0.21775636240049323
2307	10-11	0.23615637731078465
2307	12-13	0.21012618714537012
2307	14-15	0.292824397689877
2307	16-17	0.21526434294091956
2307	18-19	0.2118601340314612
2307	20-21	0.17947203357700658
2307	22-23	0.15390746735597816
2307	24-25	0.09789459527759448
2307	26-27	-0.04112201944192151
2307	28-29	-0.08343099015523592
2307	30-31	-0.13335162620803231
2307	32-33	-0.27736481408437186
2307	34-35	-0.30861937960150243
2307	36-37	-0.3704681199219806
2307	38-39	-0.44877544901044786
2307	40-41	-0.45190611640625633
2307	42-43	-0.6712464438284087
2307	44-45	-0.7848115553912294

2307	46-47	-0.835901665194605
2307	48-49	-0.9168731031060986
2307	50-51	-1.0320483649293308
2307	52-53	-1.1717812750214485
2307	54-55	-1.2010594308888791
2307	56-57	-1.2497104464322426
2307	58-59	-1.2084293826810253
2307	60-61	-1.384753854468368
2307	62-63	-1.529085764892507
2307	64-65	-1.6056498722974872
2307	66-67	-1.7079145180498116
2307	68-69	-1.88194579798974
2307	70-71	-2.0252990776507396
2307	72-73	-2.2218175821068193
2307	74-75	-2.342693760559648
2307	76-77	-3.2611278735946883
2307	78-79	-2.7263934351336125
2307	80-81	-2.627929716244445
2307	82-83	-2.602598783499616
2307	84-85	-2.6554658655026913
2307	86-87	-2.8593353256847074
2307	88-89	-2.8899439196487116
2307	90-91	-2.9217918716840465
2307	92-93	-3.1143766711933836
2307	94-95	-3.2045327417383014
2307	96-97	-3.2819113082310523
2307	98-99	-3.343627356027934
2307	100	-3.265952491177444
2201	1	0.09812025031854432
2201	2	0.18090103899523768
2201	3	0.12225878183991767
2201	4	0.12594065567249402
2201	5	0.13858040342023514
2201	6	0.13251017861185943
2201	7	0.18617113327776735
2201	8	0.17535773515632513
2201	9	0.2273470692910422
2201	10-11	0.19057377006627263
2201	12-13	0.20594132380539776

2201	14-15	0.27223988909909735
2201	16-17	0.17886502099169377
2201	18-19	0.19005399682646384
2201	20-21	0.1586914913495363
2201	22-23	0.16347996908313434
2201	24-25	0.17968025382307218
2201	26-27	0.041895487789915364
2201	28-29	0.0018699593039315232
2201	30-31	-0.013471713272181773
2201	32-33	-0.12759976779089754
2201	34-35	-0.14056840646771462
2201	36-37	-0.2766634811446238
2201	38-39	-0.3115415646284916
2201	40-41	-0.36035287767367663
2201	42-43	-0.4465653530192455
2201	44-45	-0.5217047658016014
2201	46-47	-0.6078988839665627
2201	48-49	-0.67603174447774
2201	50-51	-0.7970333357953052
2201	52-53	-0.9465267385708742
2201	54-55	-1.0494602697052606
2201	56-57	-1.038637093204816
2201	58-59	-1.0128512210143796
2201	60-61	-1.1620897860956347
2201	62-63	-1.1662435531600828
2201	64-65	-1.3010668093356195
2201	66-67	-1.353298135289016
2201	68-69	-1.3913695776817683
2201	70-71	-1.5150628163157513
2201	72-73	-1.7284090682774895
2201	74-75	-1.9115612400856108
2201	76-77	-2.272847327360509
2201	78-79	-2.0799691492243113
2201	80-81	-2.014910902934318
2201	82-83	-2.0265417002102204
2201	84-85	-2.0380391039038486
2201	86-87	-2.1453331342622626
2201	88-89	-2.2403513680790255
2201	90-91	-2.3197969247712926

2201	92-93	-2.334993350628615
2201	94-95	-2.425714591378881
2201	96-97	-2.5918893142158517
2201	98-99	-2.687959873817892
2201	100	-2.6268630853890294
1101	1	0.04266633561990574
1101	2	0.14093957256103096
1101	3	-0.12613235747144813
1101	4	0.056424002973109566
1101	5	0.1097279027518212
1101	6	0.14443535203987778
1101	7	0.1521221092878875
1101	8	0.11015900582387417
1101	9	0.19777425684392114
1101	10-11	0.18210337944773158
1101	12-13	0.2031263585248695
1101	14-15	0.2355451700850537
1101	16-17	0.2092367144687728
1101	18-19	0.19495178845778582
1101	20-21	0.14350792919699273
1101	22-23	0.16969682099264816
1101	24-25	0.17550099704968858
1101	26-27	0.13867357039806905
1101	28-29	0.10031579546183877
1101	30-31	0.08152174311995708
1101	32-33	-0.034066234663228556
1101	34-35	-0.006217940733783678
1101	36-37	-0.11257703727711998
1101	38-39	-0.13311603855731846
1101	40-41	-0.1636165708956483
1101	42-43	-0.10896940702311753
1101	44-45	-0.20592963979842693
1101	46-47	-0.1851562986432711
1101	48-49	-0.29772836722742824
1101	50-51	-0.3033436843765003
1101	52-53	-0.39403497821200517
1101	54-55	-0.48895616264437436
1101	56-57	-0.471276446707968
1101	58-59	-0.46801482810009887

1101	60-61	-0.5202468427029494
1101	62-63	-0.5588696675773868
1101	64-65	-0.6187625656737481
1101	66-67	-0.6579900569794859
1101	68-69	-0.7358756977975709
1101	70-71	-0.8238697697557029
1101	72-73	-0.9143470541034944
1101	74-75	-1.0271420390185213
1101	76-77	-1.743307000878204
1101	78-79	-1.2985432343681005
1101	80-81	-1.2287507851519202
1101	82-83	-1.335459330041875
1101	84-85	-1.246879192087082
1101	86-87	-1.3369888741888722
1101	88-89	-1.3528122708626036
1101	90-91	-1.4632902823009992
1101	92-93	-1.5220415713608375
1101	94-95	-1.7198964055006662
1101	96-97	-1.7799069423583873
1101	98-99	-1.8692227528316252
1101	100	-1.9532501441488677
2304	1	0.15881136747106694
2304	2	0.1855597953161734
2304	3	0.1737205583763668
2304	4	0.15681782829802415
2304	5	0.15599286937067802
2304	6	0.14401839025888563
2304	7	0.112143331863507
2304	8	0.11133384357847831
2304	9	0.1703132322451424
2304	10-11	0.13889548179232492
2304	12-13	0.15096377563451568
2304	14-15	0.18247831766201728
2304	16-17	0.1428554721022408
2304	18-19	0.20061805568040825
2304	20-21	0.19110514929497668
2304	22-23	0.15826300210032684
2304	24-25	0.16050373051687217
2304	26-27	0.1931341901449386

2304	28-29	0.1771296027276037
2304	30-31	0.13512662901529637
2304	32-33	0.13134295848905708
2304	34-35	0.15104202796706545
2304	36-37	0.11235561000806626
2304	38-39	0.07165106902121465
2304	40-41	0.010210001318107231
2304	42-43	0.061127673961586027
2304	44-45	0.03022095801970437
2304	46-47	-0.009856926393759124
2304	48-49	-0.08909726243373939
2304	50-51	-0.08537984210979488
2304	52-53	-0.11150626557018484
2304	54-55	-0.12187564704371923
2304	56-57	-0.17067883866969424
2304	58-59	-0.18961168425901676
2304	60-61	-0.1876900221956106
2304	62-63	-0.21710133795545872
2304	64-65	-0.15383683176345286
2304	66-67	-0.13982388347564978
2304	68-69	-0.2371472885128867
2304	70-71	-0.29101537788818277
2304	72-73	-0.40092388139254
2304	74-75	-0.3860700269969257
2304	76-77	-1.23259924626079
2304	78-79	-0.5195127693796593
2304	80-81	-0.41447497780865916
2304	82-83	-0.4083805929953144
2304	84-85	-0.3936396798132549
2304	86-87	-0.48442430044302043
2304	88-89	-0.5034902717445107
2304	90-91	-0.48417047358956466
2304	92-93	-0.5066158600485338
2304	94-95	-0.6140743002927138
2304	96-97	-0.6381566315618805
2304	98-99	-0.7370344857819795
2304	100	-0.9592463767790242
2202	1	0.10376774280758383
2202	2	0.10370955506081003

2202	3	0.13649171067345378
2202	4	0.12445976053891883
2202	5	0.11332004891476544
2202	6	0.12414807745634704
2202	7	0.10836180355521208
2202	8	0.11538954206010033
2202	9	0.12457815335167055
2202	10-11	0.1648934621901148
2202	12-13	0.14479814233101962
2202	14-15	0.13546411983504925
2202	16-17	0.14923553020693703
2202	18-19	0.1541775043206286
2202	20-21	0.17664445275354268
2202	22-23	0.14628417865383625
2202	24-25	0.179737667017001
2202	26-27	0.12278136815562135
2202	28-29	0.11616919410406013
2202	30-31	0.07391616976270399
2202	32-33	0.0473140326850654
2202	34-35	0.07786687875825038
2202	36-37	0.11345898009697919
2202	38-39	0.04979675470916334
2202	40-41	0.10485306285474394
2202	42-43	0.09130885234647934
2202	44-45	0.12082889040932798
2202	46-47	0.08753540811238025
2202	48-49	0.08812595968056769
2202	50-51	0.059288021485173203
2202	52-53	0.044612196998016884
2202	54-55	0.063670479674105
2202	56-57	0.058018936912727526
2202	58-59	-0.00623134642373202
2202	60-61	-0.012071259969651749
2202	62-63	0.04250689466674018
2202	64-65	0.06269247777593634
2202	66-67	0.041662788990606714
2202	68-69	0.008252849631372072
2202	70-71	-0.0772970056225013
2202	72-73	-0.1171195493436592

2202	74-75	-0.20089336743392394
2202	76-77	-0.5620324606900482
2202	78-79	-0.20937598932477997
2202	80-81	-0.11755659449089251
2202	82-83	-0.13085389057265573
2202	84-85	-0.10776538195381136
2202	86-87	-0.20341404808507235
2202	88-89	-0.26023009427507304
2202	90-91	-0.23401234251754133
2202	92-93	-0.2448198351062132
2202	94-95	-0.3089220368794443
2202	96-97	-0.3437261138619867
2202	98-99	-0.3647274264845919
2202	100	-0.6211253899591505
1102	1	0.06269640924292474
1102	2	0.09962135326502164
1102	3	0.09680870654012352
1102	4	0.07478638855779707
1102	5	0.021680718153817224
1102	6	0.059972408927301046
1102	7	0.013472107299570268
1102	8	0.02791715695331476
1102	9	0.0587651309355266
1102	10-11	0.045770553263444924
1102	12-13	0.0494607484378875
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>>END_MODULE

>>Per base sequence content fail

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30-31 32.74639024812081 16.077100669385626 13.681092436202691
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32-33 34.03502241601852 17.009903549178244 15.32808904827413
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35.45442458509222
36-37 33.61463975165932 16.68744679026532 15.784130207350747
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38-39 34.091843273911884 16.417835033532675 14.230637823925985
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40-41 33.87089506118826 19.66682073966707 12.791836395748682
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42-43 34.797425033169574 17.86086439980109 12.786292259721035
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44-45 32.84148871302511 17.087825739190254 13.742682140487192
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46-47 35.840015451896974 17.26775446944499 12.296551373835115
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48-49 36.45934941193259 16.43221378922733 12.256465541728282
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50-51 35.25535904795414 18.48191121544823 11.951202009900983
34.31152772669665
52-53 33.742002060465616 20.49719041910979 11.642170917921048
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54-55	35.01153435047541	18.42151128177446	11.678463171887259
	34.88849119586287		
56-57	35.60726452417869	16.136623368456608	11.845511214809083
	36.410600892555614		
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	33.90669589274912		
60-61	37.39867438543409	15.665053014177065	13.4329907992188
	33.50328180117004		
62-63	36.159217811322826	16.436064051683832	13.59143101671634
	33.813287120277		
64-65	36.58219362265354	17.733866856963875	11.69466203484962
	33.989277485532966		
66-67	37.43753875523893	16.938607014363942	13.27356008347558
	32.35029414692154		
68-69	39.235078842583334	16.46897410640065	13.10730861267349
	31.188638438342526		
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	34.09405849525848		
76-77	38.08940470587301	15.644663497096692	12.979654528337129
	33.28627726869317		
78-79	38.59174542432821	16.955545318757075	11.231442850544662
	33.22126640637005		
80-81	37.63828469873064	15.374043628719791	11.807415538741898
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82-83	35.80546829308632	14.950806440274667	12.690831645373295
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84-85	38.98337406004217	14.743980495017151	11.340239438509423
	34.93240600643126		
86-87	35.888580747683164	15.995227405290052	11.59932748946388
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94-95 32.86174432816815 17.76101474433293 10.575203171707034
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96-97 32.80956258710983 15.982519298547333 10.51773130210477
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98-99 30.95643200205532 16.592608220211492 11.34886309971985
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#GC Content Count

0 665.0

1 518.0

2 351.5

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4 338.5

5 332.5

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7 296.5

8 288.0

9 297.0

10 305.5

11 315.5

12 336.0

13 374.0

14 438.5

15 506.0

16 627.0

17 781.0

18 1004.0

19 1353.0

20 1936.5

21 2940.5

22 4712.0

23 6809.0

24 9433.0

25 12730.5

26 18889.5

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30	64372.5
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33	104743.0
34	116495.0
35	134547.5
36	153281.5
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38	178948.0
39	193256.0
40	208939.5
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82	1150862.0
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>>Per base N content pass

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1 0.03389842032922594

2 0.05822555423259229
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4 0.04111458356980525
5 0.0
6 0.0
7 4.08513800473525E-4
8 4.743146810867103E-4
9 0.0
10-11 0.004434705182992797
12-13 8.005773807937539E-4
14-15 6.881675430795624E-4
16-17 0.0
18-19 2.8788212822538685E-5
20-21 1.6313459700956461E-4
22-23 0.0
24-25 0.0
26-27 0.0017741650500261758
28-29 0.0013300397344571558
30-31 2.1941399732397206E-5
32-33 0.004129760164075604
34-35 0.0013155541561997918
36-37 3.814278760773211E-4
38-39 4.528538396118499E-5
40-41 0.003060777501995167
42-43 0.008022907515137368
44-45 0.001575037325432276
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48-49 0.0021569326790674176
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52-53 2.6665683610124503E-4
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56-57 0.0039184128406209995
58-59 0.00809278096833275
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62-63 1.0602766592279768E-4
64-65 0.004765377749317462
66-67 0.006459593368735287
68-69 1.779337464384802E-4
70-71 2.1530798655026217E-4

72-73 1.3810950434667208E-6
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76-77 0.0030144670902230416
78-79 0.007295124078547786
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82-83 0.00366693726357422
84-85 4.455674712720373E-4
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88-89 0.0026830910770077026
90-91 0.0020922298651034794
92-93 0.0035590047705331674
94-95 6.116174605659642E-4
96-97 0.00417477348083148
98-99 0.00300688855613086
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>>END_MODULE

>>Sequence Length Distribution warn

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22-23	1794.0
24-25	2054.0
26-27	2465.0
28-29	3898.0
30-31	5656.0
32-33	6233.0
34-35	6475.0
36-37	6405.0
38-39	6817.0
40-41	7535.0
42-43	8945.0
44-45	8811.0
46-47	8613.0
48-49	8810.0
50-51	8984.0
52-53	10096.0
54-55	11511.0

56-57 12771.0
58-59 13982.0
60-61 15067.0
62-63 17234.0
64-65 20203.0
66-67 22921.0
68-69 22041.0
70-71 23331.0
72-73 27661.0
74-75 31221.0
76-77 16976.0
78-79 54.0
80-81 0.0
82-83 0.0
84-85 0.0
86-87 0.0
88-89 0.0
90-91 0.0
92-93 0.0
94-95 0.0
96-97 0.0
98-99 0.0

100-101 3.6133697E7

>>END_MODULE

>>Sequence Duplication Levels fail

#Total Deduplicated Percentage 19.76805257425694

#Duplication Level Percentage of deduplicated Percentage of total

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3	2.6736232533904447	1.585569751103346
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5	0.6172514050387673	0.6100929113170159
6	0.41158809631100457	0.4881777076088559
7	0.32964974486183746	0.4561573441263433
8	0.21129915323355092	0.3341578216013446
9	0.12644506766957442	0.22496154709028612
>10	1.1305061919656132	4.462737085387483
>50	0.1362415169309231	1.8694212064936093
>100	0.13981960007457592	5.962908523027157

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>>END_MODULE

>>Adapter Content pass

#Position	Illumina Universal Adapter	Illumina Small RNA Adapter	Nextera Transposase Sequence
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4	1.2886005786748778E-4	0.0	1.919192351217903E-5
5	1.2886005786748778E-4	0.0	1.919192351217903E-5
6	1.316017612263705E-4	0.0	2.1933626871061748E-5
7	1.3708516794413593E-4	0.0	2.4675330229944467E-5
8	1.4256857466190138E-4	0.0	3.838384702435806E-5
9	1.480519813796668E-4	0.0	3.838384702435806E-5
10-11	1.5079368473854953E-4	0.0	4.249640206268213E-5
12-13	1.5216453641799088E-4	0.0	4.3867253742123496E-5
14-15	1.5901879481519768E-4	0.0	5.07215121393303E-5
16-17	1.6313134985352176E-4	0.0	5.483406717765437E-5

18-19	1.645022015329631E-4	0.0	5.757577053653709E-5
20-21	1.7546901496849398E-4	0.0	5.757577053653709E-5
22-23	1.864358284040249E-4	0.0	5.894662221597845E-5
24-25	2.0014434519843844E-4	0.0	6.031747389541981E-5
26-27	2.357864888639138E-4	0.0	6.305917725430252E-5
28-29	2.645743741321823E-4	0.0	6.305917725430252E-5
30-31	3.0158736947709906E-4	0.0	6.305917725430252E-5
32-33	3.536797332958707E-4	0.0	7.128428733095069E-5
34-35	4.04401245435201E-4	0.0	7.676769404871611E-5
36-37	4.4963935085676584E-4	0.0	8.088024908704019E-5
38-39	5.07215121393303E-4	0.0	8.910535916368835E-5
40-41	5.963204805569913E-4	0.0	9.047621084312972E-5
42-43	6.840549880412384E-4	0.0	9.047621084312972E-5
44-45	7.608226820899544E-4	0.0	9.45887658814538E-5
46-47	8.362195244592291E-4	0.0	9.595961756089516E-5
48-49	9.362916970584484E-4	0.0	9.595961756089516E-5
50-51	0.0010308804629399022	0.0	1.0144302427866058E-4
52-53	0.0011720781859223622	0.0	1.041847276375433E-4
54-55	0.0013023090954692913	0.0	1.0692643099642602E-4
56-57	0.0014325400050162205	0.0	1.0829728267586738E-4
58-59	0.0015778502830370044	0.0	1.1652239275251555E-4
60-61	0.001758802704723264	0.0	1.2337665114972235E-4
62-63	0.0019932183419077362	0.0	1.2611835450860505E-4
64-65	0.0021988460938239403	0.0	1.2611835450860505E-4
66-67	0.002434632582687854	0.0	1.2886005786748778E-4
68-69	0.002570346898952549	0.0	1.2886005786748778E-4
70-71	0.0027746037991893116	0.0	1.2886005786748778E-4
72-73	0.0029733772927083083	0.0	1.3023090954692915E-4
74-75	0.003236580815161049	0.0	1.343434645852532E-4
76-77	0.02582684564067521	0.0	1.343434645852532E-4
78-79	0.1190337930292521	0.0	1.3571431626469455E-4
80-81	0.22340632734687887	0.0	1.4119772298246E-4
82-83	0.344241419482917	0.0	1.4256857466190138E-4
84-85	0.4875433997933194	0.0	1.4531027802078408E-4
86-87	0.6560251837517008	0.0	1.5079368473854953E-4
88	0.7957547245854791	0.0	1.5353538809743223E-4

>>END_MODULE

>>Kmer Content fail

#Sequence	Count	PValue	Obs/Exp Max	Max Obs/Exp Position
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GCGGCCT	133365	0.0	72.97598	7
CGGCCTC	143540	0.0	67.82219	8
CTCGCTA	7890	0.0	67.26186	1
GGCCTCC	153070	0.0	63.533405	9
CCGACGT	6745	0.0	59.218464	1
GCTATGT	10820	0.0	49.380222	4
CTATGTT	10805	0.0	49.16838	5
ATGTTGC	11035	0.0	48.441692	7
CCTGCGG	207950	0.0	47.359226	1
GTCGGAT	17245	0.0	45.86183	1
TCGGATT	18020	0.0	44.290833	2
TGCGGCG	225640	0.0	43.73714	3
TGTTGCC	12280	0.0	43.492107	8
GTTGCCC	12675	0.0	41.9897	9
TGTTACG	3415	0.0	41.969387	3
TCGGGCT	24115	0.0	41.364376	9
GTTCGCG	1135	0.0	40.892044	1
TATGTTG	13225	0.0	40.31279	6
TCGCTAT	13685	0.0	39.86228	2
GTTACGA	3645	0.0	39.439877	4

>>END_MODULE