



##FastQC 0.11.2

>>Basic Statistics pass

#Measure Value

Filename C_cutadapt_2nd.fastq.gz

File type Conventional base calls

Encoding Sanger / Illumina 1.9

Total Sequences 24600690

Sequences flagged as poor quality 0

Sequence length 6-88

%GC 64

>>END_MODULE

>>Per base sequence quality pass

#Base	Mean	Median	Lower Quartile	Upper Quartile	10th Percentile	90th Percentile
1	37.910978757099905	39.0	38.0	39.0	35.0	39.0
2	37.923354832730304	39.0	38.0	39.0	35.0	39.0
3	37.9283379449926	39.0	38.0	39.0	35.0	39.0
4	37.88846723404912	39.0	38.0	39.0	35.0	39.0
5	39.3104496662492	41.0	39.0	41.0	36.0	41.0
6	39.284012074458076	41.0	39.0	41.0	36.0	41.0
7	39.25957338162054	41.0	39.0	41.0	35.0	41.0
8	39.22624735086212	41.0	39.0	41.0	35.0	41.0
9	39.1715033276574	41.0	39.0	41.0	35.0	41.0
10-11	39.148177716958074	41.0	39.0	41.0	35.0	41.0
12-13	38.992706956485804	40.5	38.0	41.0	35.0	41.0
14-15	38.7349278783089	40.0	38.0	41.0	35.0	41.0
16-17	38.58290918354951	40.0	37.5	41.0	35.0	41.0
18-19	38.32620635012595	40.0	37.0	41.0	34.0	41.0
20-21	38.0134099481602	40.0	35.5	41.0	33.5	41.0
22-23	37.72317215391014	39.5	35.0	41.0	33.0	41.0
24-25	37.385117980117386	39.0	35.0	41.0	33.0	41.0
26-27	37.101601216133616	38.0	35.0	41.0	33.0	41.0
28-29	36.849816755743326	37.5	35.0	41.0	33.0	41.0
30-31	36.58747709434698	37.0	35.0	41.0	33.0	41.0
32-33	36.24908005010832	35.5	35.0	40.0	31.5	41.0
34-35	36.034137251944685	35.0	35.0	40.0	31.0	41.0
36-37	35.88874299680135	35.0	35.0	40.0	31.0	41.0

38-39	35.66284963282469	35.0	35.0	40.0	31.0	41.0
40-41	35.4455564773664	35.0	34.5	40.0	31.0	41.0
42-43	35.30519283838838	35.0	34.0	39.0	31.0	41.0
44-45	35.0752768984797	35.0	34.0	39.0	30.5	41.0
46-47	34.865980260971185	35.0	34.0	39.0	30.0	41.0
48-49	34.623708728003834	35.0	33.0	38.0	29.0	41.0
50-51	34.50598004937264	35.0	33.0	37.0	28.5	41.0
52-53	34.23801298519996	35.0	33.0	37.0	27.0	40.0
54-55	33.96155546762118	35.0	33.0	36.0	27.0	40.0
56-57	33.85291370375249	35.0	33.0	35.5	28.5	40.0
58-59	33.668232207491116	35.0	33.0	35.0	27.5	39.0
60-61	33.48931918284882	35.0	33.0	35.0	27.0	39.0
62-63	33.1386378479818	35.0	33.0	35.0	26.0	38.5
64-65	32.84963007556274	35.0	33.0	35.0	26.0	37.0
66-67	29.10149195496986	31.0	26.5	33.0	19.5	35.0
68-69	30.4792051119248	32.0	28.5	34.5	22.0	35.5
70-71	32.083591932313105	34.5	31.5	35.0	24.0	36.0
72-73	32.24479428115002	35.0	32.0	35.0	24.5	35.5
74-75	32.01291147836827	35.0	32.0	35.0	24.0	35.0
76-77	31.715989667983905	35.0	31.5	35.0	24.0	35.0
78-79	31.27383454401351	34.5	31.0	35.0	23.0	35.0
80-81	31.154415641670788	34.0	31.0	35.0	23.5	35.0
82-83	30.9187528686603	34.0	31.0	35.0	21.5	35.0
84-85	30.705309984163037	34.0	31.0	35.0	20.0	35.0
86-87	30.145640326161914	34.0	31.0	35.0	18.5	35.0
88	29.548656205747474	34.0	30.0	35.0	7.0	35.0

>>END_MODULE

>>Per tile sequence quality pass

#Tile	Base	Mean
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2306	1	0.24099566969941577
2306	2	0.2776247403553924
2306	3	0.2919505495680852
2306	4	0.2977797457228135
2306	5	0.3914388956805013
2306	6	0.37571533657789047
2306	7	0.3576289353182247
2306	8	0.3136817390542461
2306	9	0.36471992127266617
2306	10-11	0.3152974143370102

2306	12-13	0.3087918362830564
2306	14-15	0.41438419478024713
2306	16-17	0.4341267368728978
2306	18-19	0.42752618759589467
2306	20-21	0.40977072342976584
2306	22-23	0.4644678153149471
2306	24-25	0.4469572302825142
2306	26-27	0.4708690544434333
2306	28-29	0.46849161526046856
2306	30-31	0.4618397371631744
2306	32-33	0.45855777085230187
2306	34-35	0.4269488786266322
2306	36-37	0.44084562296653473
2306	38-39	0.34089338087994037
2306	40-41	0.3880922165329892
2306	42-43	0.2870171056057558
2306	44-45	0.22518893256903283
2306	46-47	0.23920518820205672
2306	48-49	0.29135221591833727
2306	50-51	0.26378689706947966
2306	52-53	0.1985181545010235
2306	54-55	0.06869399705723112
2306	56-57	-0.08856733693495045
2306	58-59	-0.08332217079536264
2306	60-61	-0.08602863666755667
2306	62-63	-0.23192835454243976
2306	64-65	-0.29971362883385666
2306	66-67	-1.3224673592837668
2306	68-69	-1.195687671434321
2306	70-71	-0.573127551544161
2306	72-73	-0.44529323458077386
2306	74-75	-0.4726372463061921
2306	76-77	-0.7289242877969571
2306	78-79	-0.8440029694611084
2306	80-81	-1.078880335654059
2306	82-83	-1.0810402119467248
2306	84-85	-1.3504275394211973
2306	86-87	-1.4836022392091195
2306	88	-1.7166816529873223

2307	1	0.24986495872883552
2307	2	0.2509578142374167
2307	3	0.2433548401568757
2307	4	0.2629281813018167
2307	5	0.40831880242134844
2307	6	0.3172839700006236
2307	7	0.33583460442628876
2307	8	0.26415110384813545
2307	9	0.34805701307754333
2307	10-11	0.31837513190909306
2307	12-13	0.3758712709791183
2307	14-15	0.43094416998041396
2307	16-17	0.3723335223781348
2307	18-19	0.4236260195832031
2307	20-21	0.39003310612697817
2307	22-23	0.4130368389956516
2307	24-25	0.4212348606139287
2307	26-27	0.43815364248099087
2307	28-29	0.473349524939799
2307	30-31	0.4894041732937353
2307	32-33	0.5469472654951488
2307	34-35	0.4681311247788642
2307	36-37	0.36369212980853405
2307	38-39	0.3450520429233137
2307	40-41	0.359322616392852
2307	42-43	0.2536220946788603
2307	44-45	0.28034548983932694
2307	46-47	0.2512193544482173
2307	48-49	0.2585564997390506
2307	50-51	0.24127037076763003
2307	52-53	0.17067041326214394
2307	54-55	0.17581007653075886
2307	56-57	0.13230476379499123
2307	58-59	0.027923804743210212
2307	60-61	-0.0681730839295085
2307	62-63	-0.17070544027226475
2307	64-65	-0.14248626737823145
2307	66-67	-1.1079571443755611
2307	68-69	-0.9531841884315746

2307	70-71	-0.46361247770927605
2307	72-73	-0.39860534155095095
2307	74-75	-0.4363047287319617
2307	76-77	-0.5299242965364712
2307	78-79	-0.6991101563861193
2307	80-81	-0.7825293580272756
2307	82-83	-0.9845133716695713
2307	84-85	-1.1445125026781504
2307	86-87	-1.1861332335924857
2307	88	-1.354369829185078
2201	1	0.2587939434146449
2201	2	0.22247862832430343
2201	3	0.24764027475421102
2201	4	0.24386123776153568
2201	5	0.36933278647716605
2201	6	0.3442961992558864
2201	7	0.30419130081165235
2201	8	0.25381791402658394
2201	9	0.29244941437412564
2201	10-11	0.29899932506428684
2201	12-13	0.3179403042422777
2201	14-15	0.355984189407458
2201	16-17	0.35468963379729956
2201	18-19	0.35925023948751544
2201	20-21	0.3344198875280924
2201	22-23	0.3495666950379288
2201	24-25	0.4222071428116294
2201	26-27	0.38230564153331414
2201	28-29	0.3827020128266838
2201	30-31	0.3701949610246871
2201	32-33	0.3896072853721293
2201	34-35	0.35142223200838885
2201	36-37	0.2834164463653508
2201	38-39	0.29593313901023066
2201	40-41	0.22691887625134655
2201	42-43	0.14767842169413115
2201	44-45	0.09086159049932263
2201	46-47	0.11449552497142435
2201	48-49	0.13201576244961188

2201	50-51	0.05830549302900323
2201	52-53	0.061445601851417564
2201	54-55	0.0572663869979948
2201	56-57	-0.01617647515021048
2201	58-59	0.004785875540207485
2201	60-61	-0.042291745907441225
2201	62-63	-0.11709139349198239
2201	64-65	-0.22914701900455725
2201	66-67	-0.7694058226791682
2201	68-69	-0.6121840482272098
2201	70-71	-0.46145506355644983
2201	72-73	-0.38951207056378223
2201	74-75	-0.44548824317514857
2201	76-77	-0.5119778832235156
2201	78-79	-0.6610838253494222
2201	80-81	-0.838270710892612
2201	82-83	-0.8994512799827241
2201	84-85	-0.9203575177146561
2201	86-87	-1.0124714384046953
2201	88	-1.2538120585583918
1101	1	0.17832957568875685
1101	2	0.1539231387515443
1101	3	0.18725373302658
1101	4	0.21698236297855544
1101	5	0.23582433971288452
1101	6	0.2760288177842156
1101	7	0.2868664007665842
1101	8	0.22809635880682322
1101	9	0.23802703940342695
1101	10-11	0.1945085477653663
1101	12-13	0.25291012585095274
1101	14-15	0.2328437045633862
1101	16-17	0.2855916239699283
1101	18-19	0.3075158684137591
1101	20-21	0.27290975940000806
1101	22-23	0.22090248871999307
1101	24-25	0.27265402312655596
1101	26-27	0.25376986038054383
1101	28-29	0.260349585631829

1101	30-31	0.2095325507964887
1101	32-33	0.25979448422086193
1101	34-35	0.291901022398811
1101	36-37	0.20817311452319132
1101	38-39	0.18372983796550812
1101	40-41	0.14503183638371553
1101	42-43	0.14036863534657584
1101	44-45	0.15289970512593243
1101	46-47	0.13401173172501046
1101	48-49	0.060040123100307596
1101	50-51	0.043774694408121206
1101	52-53	0.06634779369829857
1101	54-55	0.01608173050992434
1101	56-57	-0.01608100384610367
1101	58-59	-0.010446964612611964
1101	60-61	-0.030689270014541137
1101	62-63	-0.13248699155980148
1101	64-65	-0.12593550331168757
1101	66-67	-0.8064493588431745
1101	68-69	-0.5251826193375919
1101	70-71	-0.24776936317179477
1101	72-73	-0.2747474900626017
1101	74-75	-0.31486211970693034
1101	76-77	-0.3102908651481755
1101	78-79	-0.3605114346758391
1101	80-81	-0.5103295074129193
1101	82-83	-0.600621874175733
1101	84-85	-0.6826308914469301
1101	86-87	-0.7033960191463073
1101	88	-0.79222601445883
2304	1	0.1895838652420565
2304	2	0.1964925280619454
2304	3	0.1771159091776724
2304	4	0.2307819694326838
2304	5	0.27637110163750833
2304	6	0.19972666037347864
2304	7	0.18626465784591772
2304	8	0.19086561189406126
2304	9	0.23932626266771706

2304	10-11	0.22824003580316798
2304	12-13	0.2717302226226366
2304	14-15	0.21624561002128928
2304	16-17	0.24284808214137854
2304	18-19	0.25290357106263883
2304	20-21	0.23070334677242954
2304	22-23	0.22414299268503868
2304	24-25	0.28995499655325574
2304	26-27	0.25558224903750215
2304	28-29	0.2477781791703464
2304	30-31	0.21711983209151953
2304	32-33	0.2397378305520519
2304	34-35	0.2388413640305771
2304	36-37	0.229018402251981
2304	38-39	0.16330926821826353
2304	40-41	0.09522225699468123
2304	42-43	0.1109387914568245
2304	44-45	0.17765848393745642
2304	46-47	0.1678874218031794
2304	48-49	0.11917312740929731
2304	50-51	0.09639605634986737
2304	52-53	0.10807743670545733
2304	54-55	0.14827828936555676
2304	56-57	0.0927673345856519
2304	58-59	0.07936235677527748
2304	60-61	-0.0210069541192226
2304	62-63	-0.10888284104215273
2304	64-65	-0.07479676054435913
2304	66-67	-0.7342996547149028
2304	68-69	-0.43849048879606656
2304	70-71	-0.08148365714382422
2304	72-73	-0.07304365968283122
2304	74-75	-0.029439048451123995
2304	76-77	-0.07398625663098812
2304	78-79	-0.09916339946379082
2304	80-81	-0.05427037578165894
2304	82-83	-0.08363143431932585
2304	84-85	-0.1328815526469711
2304	86-87	-0.18100271369834076

2304	88	-0.16055210033264444
2202	1	0.150775263395019
2202	2	0.1524776771934384
2202	3	0.11953016362032542
2202	4	0.15373801354907357
2202	5	0.16779816371357725
2202	6	0.1476637472017046
2202	7	0.16287245335350775
2202	8	0.16615459202262173
2202	9	0.16834218890456754
2202	10-11	0.16141618536699553
2202	12-13	0.1544352579335566
2202	14-15	0.18106889486902844
2202	16-17	0.18503557388470426
2202	18-19	0.18139326593080796
2202	20-21	0.17834236460393527
2202	22-23	0.14617028582640756
2202	24-25	0.15246122571537768
2202	26-27	0.1550138077811951
2202	28-29	0.1361938098201918
2202	30-31	0.13435058468999017
2202	32-33	0.16231513381541873
2202	34-35	0.1389734952509727
2202	36-37	0.1230741632841017
2202	38-39	0.11716731370525935
2202	40-41	0.12511389254343186
2202	42-43	0.10966760904710071
2202	44-45	0.12141280082634154
2202	46-47	0.11801386856900109
2202	48-49	0.1259807557750534
2202	50-51	0.0899344006514724
2202	52-53	0.07014738490577344
2202	54-55	0.11222510610596004
2202	56-57	0.06405140225843553
2202	58-59	0.07840137123338309
2202	60-61	0.014240993429460502
2202	62-63	-0.0703016100673608
2202	64-65	-0.03936422571982945
2202	66-67	-0.43753486170810874

2202	68-69	-0.15602612516051906
2202	70-71	-0.09085190006004851
2202	72-73	-0.06644604224851491
2202	74-75	-0.069124388228758
2202	76-77	-0.053898571004154405
2202	78-79	-0.11506664152885904
2202	80-81	-0.21224636320459922
2202	82-83	-0.18177328009008775
2202	84-85	-0.20937666434851465
2202	86-87	-0.17908184104777547
2202	88	-0.2532111410979496
1102	1	0.08052637071334345
1102	2	0.05814572412621999
1102	3	0.047375922571603724
1102	4	0.09679390871431082
1102	5	0.13172733504634238
1102	6	0.11661963714001189
1102	7	0.12063259328679266
1102	8	0.10274001706683578
1102	9	0.08820987194364704
1102	10-11	0.09461676439804023
1102	12-13	0.04101597642479504
1102	14-15	0.08037530985270536
1102	16-17	0.06739496567267622
1102	18-19	0.07905408786041335
1102	20-21	0.04311302846249987
1102	22-23	0.04073612456173947
1102	24-25	0.08296527450209368
1102	26-27	0.08605209803923941
1102	28-29	0.03931019041739603
1102	30-31	0.10250563286724201
1102	32-33	0.056743202252789615
1102	34-35	0.08701949648617102
1102	36-37	0.0633347399069848
1102	38-39	0.06284691017415156
1102	40-41	0.07526752352604404
1102	42-43	0.08231664039936248
1102	44-45	0.09856373410968189
1102	46-47	0.01491311577859733

1102	48-49	0.015410131093432256
1102	50-51	0.08289640946309618
1102	52-53	0.06026870997810363
1102	54-55	0.05220668527682193
1102	56-57	0.004629611698355518
1102	58-59	0.03635096382971881
1102	60-61	0.07177237753973031
1102	62-63	-0.07554440013296215
1102	64-65	-0.08697903136368978
1102	66-67	-0.4097525497667398
1102	68-69	-0.2572791309379916
1102	70-71	-0.06674965228694063
1102	72-73	0.02698945418620724
1102	74-75	-0.054669144932255165
1102	76-77	0.006992899914134654
1102	78-79	-0.10677919724587781
1102	80-81	-0.12748018430754016
1102	82-83	-0.09378819427199758
1102	84-85	-0.13246210574660822
1102	86-87	-0.14693924850405793
1102	88	-0.21664178780848076
2305	1	0.02119181992321728
2305	2	0.03714348173693338
2305	3	0.026847758403043542
2305	4	0.02160208471863001
2305	5	0.04733945526647432
2305	6	0.041879011544807554
2305	7	0.06707827937187005
2305	8	0.05809366567735452
2305	9	0.04653949290110404
2305	10-11	0.02613480002263202
2305	12-13	0.04190949439071545
2305	14-15	0.06385658313127607
2305	16-17	0.03788488903836651
2305	18-19	0.03773032384610531
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1315	32-33	-0.06394162128837166
1315	34-35	-0.10782437134709966
1315	36-37	-0.060293813481067104
1315	38-39	-0.07170645788629315
1315	40-41	-0.025911790158751558
1315	42-43	-0.0017081412863007017
1315	44-45	-0.035799967813680666
1315	46-47	0.025568950458058737
1315	48-49	0.07549753137041648
1315	50-51	0.0402161717911369
1315	52-53	0.0043924173148610635
1315	54-55	0.07072161237051944
1315	56-57	0.12004512741268059
1315	58-59	0.15227631476724923
1315	60-61	0.11563309938030386
1315	62-63	0.14088050789091966
1315	64-65	0.15898824242079712
1315	66-67	0.607562346509404
1315	68-69	0.5638492191405469
1315	70-71	0.27106605546429563
1315	72-73	0.18966998014187197
1315	74-75	0.20261722530371173
1315	76-77	0.24252428440298957
1315	78-79	0.28844909397186314
1315	80-81	0.36152513289686894
1315	82-83	0.3419352663243451

1315	84-85	0.3912748377917872
1315	86-87	0.5216991237985589
1315	88	0.5102045740096663
1214	1	-0.15327307304831805
1214	2	-0.1492751495185587
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1214	7	-0.15701013083516813
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1214	12-13	-0.16837644093252635
1214	14-15	-0.14242985392008478
1214	16-17	-0.16026711470964727
1214	18-19	-0.15866906781155166
1214	20-21	-0.18627123854886918
1214	22-23	-0.20348476738700327
1214	24-25	-0.20054071991580003
1214	26-27	-0.19039530713980213
1214	28-29	-0.1845084794044709
1214	30-31	-0.21356222208793696
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1214	42-43	-0.14461036713282027
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1214	48-49	-0.004601259728829632
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1214	56-57	0.058746111112562005
1214	58-59	0.1138130990473698
1214	60-61	0.15342398441407568
1214	62-63	0.1349074673664532

1214	64-65	0.2184848189267754
1214	66-67	0.7573725056099292
1214	68-69	0.6758027627153957
1214	70-71	0.3949613588732461
1214	72-73	0.3223458639860013
1214	74-75	0.3286112987683225
1214	76-77	0.3750043512592214
1214	78-79	0.392920558103377
1214	80-81	0.4424629563996483
1214	82-83	0.46138135058514607
1214	84-85	0.39998599078095864
1214	86-87	-1.8841165625987948
1214	88	-0.4433079009142702
1316	1	-0.22355528558079385
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1316	4	-0.1735260656612141
1316	5	-0.20587078457814556
1316	6	-0.20729437613881885
1316	7	-0.2656444809095575
1316	8	-0.2587326798121765
1316	9	-0.2775152495628319
1316	10-11	-0.2509180816053487
1316	12-13	-0.2967092304544181
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1316	16-17	-0.24120771630654758
1316	18-19	-0.2627733466570774
1316	20-21	-0.2979304799134326
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1316	44-45	-0.20210879640048063
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1316	56-57	0.009063706010472572
1316	58-59	0.06178041344264784
1316	60-61	0.01329528546407488
1316	62-63	0.10425340673519656
1316	64-65	0.15239527769188754
1316	66-67	0.8750167391714996
1316	68-69	0.6698165735975401
1316	70-71	0.3664939165839485
1316	72-73	0.2936231392891031
1316	74-75	0.32396142186764365
1316	76-77	0.3692013424491236
1316	78-79	0.4652068975800603
1316	80-81	0.4399848500779875
1316	82-83	0.5265167025975757
1316	84-85	0.5746551905106649
1316	86-87	0.7665569129785297
1316	88	0.8405224830579101
1215	1	-0.3315561289371729
1215	2	-0.3028048770008738
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1215	4	-0.5267000666252457
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1215	7	-0.4274676143215004
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1215	10-11	-0.6221502848622436
1215	12-13	-0.49377014227188454
1215	14-15	-0.42248445567501136
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1215	52-53	-0.1880638349697321
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1215	56-57	-0.15486585217149695
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1215	66-67	0.7907924146165115
1215	68-69	0.652101333456752
1215	70-71	0.3443837700785437
1215	72-73	0.25445958219720666
1215	74-75	0.3260009788798044
1215	76-77	0.44221940414870176
1215	78-79	0.5900602297258857
1215	80-81	0.6329846976068545
1215	82-83	0.6290316425082274
1215	84-85	0.4899211224764173
1215	86-87	0.5875223120151674
1215	88	0.8920602303846117
1212	1	-0.44855643596360295
1212	2	-0.4121977855167529
1212	3	-0.4010284229498353
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1212	5	-0.49944695457475063
1212	6	-0.47235174873249264

1212	7	-0.522569517456617
1212	8	-0.49771833822532585
1212	9	-0.4978257579337253
1212	10-11	-0.5211560465591205
1212	12-13	-0.5318224175891615
1212	14-15	-0.5314609640751158
1212	16-17	-0.6059395956084899
1212	18-19	-0.6039167861648949
1212	20-21	-0.6042635005218955
1212	22-23	-0.6024191282333149
1212	24-25	-0.6222574302469539
1212	26-27	-0.5850522294934208
1212	28-29	-0.5936978103116815
1212	30-31	-0.5721352561205819
1212	32-33	-0.520918583111218
1212	34-35	-0.467606130917936
1212	36-37	-0.47037318655237925
1212	38-39	-0.44791874600510795
1212	40-41	-0.38921279415037446
1212	42-43	-0.38537695186163035
1212	44-45	-0.3719407642716064
1212	46-47	-0.40258588356702063
1212	48-49	-0.26994295912918176
1212	50-51	-0.24480785228625734
1212	52-53	-0.21693035853626697
1212	54-55	-0.15553439237556432
1212	56-57	-0.17305812177023228
1212	58-59	-0.03409562987349801
1212	60-61	-0.03800380877250831
1212	62-63	-0.022344653655878233
1212	64-65	0.10841794113257919
1212	66-67	0.8722944315931116
1212	68-69	0.71671401876225
1212	70-71	0.4170605996361161
1212	72-73	0.34915875482852954
1212	74-75	0.525007089781468
1212	76-77	0.5384655873112223
1212	78-79	0.6887986740711831
1212	80-81	0.7814814675544

1212	82-83	0.8517240647680211
1212	84-85	0.8880381316084005
1212	86-87	1.0375819241944626
1212	88	1.1938984950885967
1213	1	-0.5470277513180619
1213	2	-0.5304836038574123
1213	3	-0.5576518572274054
1213	4	-0.5748626420124623
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1213	6	-0.743852428814975
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1213	9	-0.7025477266512752
1213	10-11	-0.7265710944555508
1213	12-13	-0.6806069819880207
1213	14-15	-0.711819438278745
1213	16-17	-0.7249045038127662
1213	18-19	-0.7159762942165386
1213	20-21	-0.7070855593668455
1213	22-23	-0.7705966781142521
1213	24-25	-0.7217297515554435
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1213	34-35	-0.6228468202290074
1213	36-37	-0.5822056305311349
1213	38-39	-0.622568153179067
1213	40-41	-0.6140688960666552
1213	42-43	-0.5407215369042788
1213	44-45	-0.53230312465071
1213	46-47	-0.5074801990186941
1213	48-49	-0.4237256200176631
1213	50-51	-0.3969836202820929
1213	52-53	-0.3575253864201926
1213	54-55	-0.3104008424349658
1213	56-57	-0.26242485157873574
1213	58-59	-0.13999184784100294
1213	60-61	-0.09693778768251349

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1213 62-63 -0.05236124915609963
1213 64-65 0.03962889055992491
1213 66-67 0.9381796153983117
1213 68-69 0.7264147221536881
1213 70-71 0.4220605485066429
1213 72-73 0.3212735730663354
1213 74-75 0.4666338711508331
1213 76-77 0.5584758668663028
1213 78-79 0.7294324150614315
1213 80-81 0.8339273571391992
1213 82-83 0.9354934103093093
1213 84-85 0.9983236098441743
1213 86-87 1.197309279379919
1213 88 1.3773559666579622
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>>END_MODULE
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>>Per sequence quality scores pass
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#Quality Count
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21 557.0
22 7788.0
23 44472.0
24 130157.0
25 243373.0
26 357296.0
27 470490.0
28 580912.0
29 716865.0
30 896006.0
31 1026449.0
32 1255949.0
33 1689989.0
34 2508659.0
35 3474983.0
36 3526139.0
37 3175113.0
38 3068305.0
39 1335831.0
40 91337.0
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>>END_MODULE
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>>Per base sequence content fail

#Base G A T C

1	29.795876719075444	25.087046567459186	20.122340221187248	24.994736492278122
2	29.82893162752752	23.044975567758467	16.38148767371972	30.744605130994294
3	32.73111851740744	18.830049075859254	17.79435454859193	30.64447785814138
4	31.563244770776755	18.639542224222165	20.159946733201387	29.637266271799696
5	31.48925603131555	19.772180336759714	18.151172694940296	30.587390936984438
6	32.136615088135095	18.695895223885646	19.059502896211185	30.107986791768077
7	29.078971752740312	19.823019627056777	16.917254921743517	34.1807536984594
8	31.75176915419779	19.132649411051567	16.52777086733677	32.587810567413875
9	30.472917466706456	19.465158589887725	18.07885655559462	31.983067387811197
10-11	31.11201648038564	18.835842582683178	17.18197885155387	32.870162085377316
12-13	32.513631785676374	18.802373219042508	17.481909805505445	31.202085189775673
14-15	30.685181810930683	19.54770679565913	17.89955015089422	31.86756124251596
16-17	31.346452208972348	19.0303628180849	16.493217325447283	33.12996764749547
18-19	30.61170647543608	19.82758881829579	16.045843652768163	33.51486105349996
20-21	31.70404322904122	19.424640695011668	15.701108578452475	33.170207497494644
22-23	31.69168454122562	19.161401105102897	15.869730604832446	33.27718374883904
24-25	30.891752073157953	19.17327517294489	17.777852231797905	32.157120522099255
26-27	34.182572711034744	18.443590592879207	16.483362733994078	30.890473962091967
28-29	33.84950976031245	18.81191802488295	16.22950942123286	

31.109062793571745
30-31 33.653123489980565 19.04279566199506 15.27132380282784
32.032757045196526
32-33 32.84930871969495 20.790182599205476 15.989627470869621
30.37088121022995
34-35 29.820942780034365 21.643511084332083 15.244622211672496
33.29092392396106
36-37 30.433544692139414 19.63206213874723 15.070311897258257
34.8640812718551
38-39 33.66022811987977 19.192976588881017 15.371496795430875
31.775298495808336
40-41 34.54609691884321 19.730271358951786 15.663917487638749
30.059714234566254
42-43 33.697874524215486 19.965272019393133 14.669186641181339
31.667666815210044
44-45 34.226040967506925 20.132343714093956 14.402479662633255
31.239135655765864
46-47 33.897974598104724 19.90508980074464 14.930603184310517
31.266332416840115
48-49 33.994550999102984 19.308121210724867 14.975025974249059
31.72230181592309
50-51 35.115355002725664 19.168278306646375 14.719538880399401
30.99682781022856
52-53 34.132130814915456 19.44315672576014 15.61846661112664
30.80624584819776
54-55 32.74135771888787 19.542704152365275 15.310004136428864
32.40593399231799
56-57 33.3062731902764 19.5223113797454 15.11905172904178
32.05236370093642
58-59 34.62683236366178 18.271847938996245 14.733659833711455
32.36765986363052
60-61 35.04508173463357 17.934298130713024 15.349478427400248
31.67114170725316
62-63 34.15420931180733 18.77269687912639 15.394711544797396
31.67838226426889
64-65 33.413916029074784 19.433784093815056 15.862229810069897
31.29007006704026
66-67 32.035782385682474 19.752032590740626 14.351316143161307
33.860868880415595

68-69	33.03637704570495	18.6557233611889	14.835836518020695
	33.47206307508545		
70-71	30.65306463682276	19.10030282101684	14.564894012644105
	35.6817385295163		
72-73	33.94753878361882	18.083699257194827	14.241381854466376
	33.72738010471998		
74-75	33.77360059809861	18.584289360165897	14.797360364979026
	32.844749676756464		
76-77	32.828136846285794	19.720314118339253	14.26310440966948
	33.18844462570548		
78-79	31.034052678982892	19.28004895849935	14.751603979772495
	34.93429438274526		
80-81	29.946667196572964	19.17997687288499	15.45309304828493
	35.42026288225712		
82-83	29.780032955963538	18.651801566659206	15.165679771675872
	36.40248570570139		
84-85	30.313573955250256	19.21509060824573	13.68106313455347
	36.790272301950544		
86-87	30.475293232354417	19.62475714289009	13.18887076097589
	36.711078863779605		
88	31.438514178217087	19.95288801912023	13.77040114455171
	34.838196658110974		

>>END_MODULE

>>Per sequence GC content fail

#GC Content	Count
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3	200.5
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5	134.0
6	113.0
7	99.0
8	92.5
9	103.0
10	122.0
11	137.5
12	202.0
13	278.0

14	388.5
15	608.5
16	927.5
17	1117.0
18	1475.5
19	2389.0
20	3899.0
21	6023.0
22	11264.5
23	19700.0
24	28571.0
25	33148.5
26	36584.5
27	48363.5
28	60330.0
29	75063.5
30	84317.0
31	97138.0
32	124801.5
33	137908.5
34	143306.5
35	157602.5
36	175132.5
37	195324.0
38	206398.5
39	217409.5
40	245161.0
41	320649.0
42	380999.5
43	383128.5
44	378899.0
45	379181.5
46	433786.5
47	493772.5
48	517858.0
49	538636.0
50	546147.0
51	531089.5
52	519735.0

53	527019.5
54	518625.0
55	510702.0
56	492891.5
57	478640.0
58	486181.0
59	503871.0
60	491543.0
61	485678.5
62	540534.5
63	487107.0
64	379303.0
65	377658.5
66	407321.0
67	415171.5
68	475542.5
69	551220.0
70	493262.5
71	427563.0
72	393683.0
73	413048.5
74	381694.5
75	288744.5
76	424983.5
77	663641.5
78	844658.0
79	882572.5
80	916317.5
81	1139153.5
82	1079135.5
83	870216.5
84	863857.0
85	743772.0
86	585408.0
87	458820.0
88	248185.0
89	128712.0
90	83459.0
91	33730.5

92 37639.0
93 25831.0
94 9969.5
95 7088.5
96 5522.0
97 1749.0
98 577.0
99 175.0
100 26.0

>>END_MODULE

>>Per base N content pass

#Base N-Count

1 0.008434722765906158
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TCCGCGG	50005	0.0	33.490456	6		
CCGCGAC	49660	0.0	32.377476	6		
GCCGCGA	49840	0.0	32.366627	5		
CGCCTAG	6660	0.0	29.692919	82		

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