

Assembly Report

Experiment Details

ExperimentID:	Experiment 7
Sequencing Coverage:	20
Number of Partitions:	2
Allowed Mismatch Count in (Base):	0
Length of Sliding Window:	101

Reads Dataset Details

Total Reads Count:	1054
Total Dataset Size in (Base):	211074
Valid Read Count:	1054
Rejected Read Count:	0
Maximum Read Length:	201
Minimum Read Length:	162

Reference Genome Details

Length of Reference Genome (Base):	10080
Number of K-mers:	9880
Length of K-mer	316

Assembly Details

Number of Contigs:	22
Contig N50:	1076
Contig N90:	976
Number of Scaffold	1
Scaffold N50:	10080
Scaffold N90:	10080
Mis-assembly Count:	0
TotalAssembly Size:	10080

Repeat Details

Total Reads Count(Non-Repeat) :	368
Total Reads Count(Repeat):	26
Retetitive Read Count based on (Partitions Identifier):	24
Retetitive Read Count (Entire Read Frequency Identifier):	1
Retetitive Read Count (Contained Read Frequency Identifier):	1
Total Repetitive Sequences Count	69
Total Unique Repetitive Sequences Count	1

Total Repeat Size (Base)			2000			
Starting	Ending	Repetitive Sequences	Repeat Count	Length	Positions	
1	10080	GCTTTTCATTC	8	250		
		TGACTGCAAC			Start	End
		GGGCAATATG			Positio	Positio
		TCTCTGTGTGG			n	n
		ATTAAAAAAG			1	250
		AGTGTCTGATA			665	914
		GCAGCTTCTG			1200	1449
		AACTGGTTACC			2846	3095
		TGCCGTGAGT			3826	4075
		AAATTAAAATT			6163	6412
		TTATTGACTTA			7273	7522
		GGTCACTAAAT			8425	8674
		ACTTTAACCBA				
		TATAGGCATAG				
		CGCACAGACA				
		GATAAAAATTA				
		CAGAGTACAC				
		AACATCCATGA				
		AACGCATTAGC				
		ACCACCATTAC				
CACCACCATCA						
CCATTACCACA						
GGTAACGGTG						
CGGG						

SRGD Performance Metrics

Initial Reads Count:	1054
Reads Count after Removing Duplication:	394
Reads Count after Overlapping:	204
Initial Dataset Size in (Base):	211074

Dataset Siset after Removing Duplication:	86253
Dataset Size after Overlapping:	45567

Overlapping Metrics

Repeat Identification Time:	00h:00m:04s:000ms
Overlapping Time:	00h:01m:31s:000ms
Reads Alignment Time:	00h:00m:06s:000ms
Total Hybrid Assembly Time:	00h:01m:37s:000ms
Repeat Annotation Time:	00h:00m:03s:000ms

Overlapping Length	O(N)2 Time Complexity	Hit Index Count	Overlapping Matched Count	RI
200	135424	63	1	0
199	134689	80	4	0
197	131769	54	1	0
195	131044	53	2	0
189	129600	64	1	0
188	128881	68	1	0
186	128164	55	1	0
184	127449	61	1	0
176	126736	408	175	0
174	32761	15	1	0
172	32400	16	1	0
151	32041	15	1	0