

Assembly Report

Experiment Details

ExperimentID:	Experiment 4
Sequencing Coverage:	20
Number of Partitions:	4
Allowed Mismatch Count in (Base):	0
Length of Sliding Window:	51

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	305

Assembly Details

Number of Contigs:	31
Contig N50:	926
Contig N90:	826
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):	30
Retetitive Read Count based on (Partitions Identifier):	30
Retetitive Read Count (Entire Read Frequency Identifier):	1
Retetitive Read Count (Contained Read Frequency Identifier):	1
Total Repetitive Sequences Count	126
Total Unique Repetitive Sequences Count	1

Total Repeat Size (Base)			1000			
Starting	Ending	Repetitive Sequences	Repeat Count	Length	Positions	
1	10080	GCTTTTCATTC	4	250		
		TGACTGCAAC				
		GGGCAATATG				
		TCTCTGTGTGG				
		ATTAAAAAAG				
		AGTGTCTGATA				
		GCAGCTTCTG				
		AACTGGTTACC				
		TGCCGTGAGT				
		AAATTAAAATT				
		TTATTGACTTA				
		GGTCACTAAAT				
		ACTTTAACCBA				
		TATAGGCATAG				
		CGCACAGACA				
		GATAAAAATTA				
		CAGAGTACAC				
		AACATCCATGA				
		AACGCATTAGC				
		ACCACCATTAC				
CACCACCATCA						
CCATTACCACA						
GGTAACGGTG						
CGGG						

SRGD Performance Metrics

Initial Reads Count:	1054
Reads Count after Removing Duplication:	398
Reads Count after Overlapping:	214
Initial Dataset Size in (Base):	211074

Dataset Siset after Removing Duplication:	87057
Dataset Size after Overlapping:	47618

Overlapping Metrics

Repeat Identification Time:		00h:00m:05s:000ms		
Overlapping Time:		00h:01m:30s:000ms		
Reads Alignment Time:		00h:00m:08s:000ms		
Total Hybrid Assembly Time:		00h:01m:38s:000ms		
Repeat Annotation Time:		00h:00m:02s:000ms		
Overlapping Length	O(N) ² Time Complexity	Hit Index Count	Overlapping Matched Count	RI
197	135424	56	1	0
176	134689	384	182	0
151	34225	6	1	0