Assembly Report

Experiment Details

ExperimentID:	Experiment 20
Sequencing Coverage:	26
Number of Partitions:	5
Allowed Mismatch Count in (Base):	0
Length of Sliding Window:	51

Reads Dataset Details

Total Reads Count:	1051
Total Dataset Size in (Base):	263021
Valid Read Count:	1051
Rejected Read Count:	0
Maximum Read Length:	251
Minimum Read Length:	212

Reference Genome Details

Length of Reference Genome (Base):	10080
Number of K-mers:	9830
Length of K-mer	451

Assembly Details

Number of Contigs:	18
Contig N50:	1226
Contig N90:	1126
Number of Scaffold	1
Scaffold N50:	10080
Scaffold N90:	10080
Mis-assembly Count:	0
TotalAssembly Size:	10080

Repeat Details

Total Reads Count(Non-Repeat) :	347
Total Reads Count(Repeat):	49
Retetitve Read Count based on (Partitions Identifier):	49
Retetitve Read Count (Entire Read Frequency Identifier):	1
Retetitve Read Count (Contained Read Frequency Identifier):	1
Total Repetitive Sequences Count	433
Total Unique Repetitive Sequences Count	1

Total Repeat Size (Base)			1400		
Starting	Ending	Repetitive Sequences	Repeat Count	Length	Positions
1	10080	GCTTTTCATTC TGACTGCAAC GGGCAATATG TCTCTGTGTGG ATTAAAAAAG AGTGTCTGATA GCAGCTTCTG AACTGGTTACC TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA CAGAGTACAC AACATCCATGA AACGCATTAGC ACCACCATTAC CACCACCATCA CCATTACCACA GGTAACGGTG CGGGCTGACG CGTACAGGAA ACACAGAAAAA AGCCCGCACC TGACAGTGCG GGCTTTTTTTT CGACCAAAGG TAACGAGGTAA CAACCATGCG AGTGTTGAAGT	4	350	

Start Position	End Position
1	350
799	1148
1434	1783
8510	8859

SRGD Performance Metrics

Initial Reads Count:	1051
Reads Count after Removing Duplication:	396
Reads Count after Overlapping:	164
Initial Dataset Size in (Base):	263021
Dataset Sizet after Removing Duplication:	108405
Dataset Size after Overlapping:	49968

Overlapping Metrics

Repeat Identification Time:	00h:00m:14s:000ms
Overlapping Time:	00h:04m:50s:000ms
Reads Alignment Time:	00h:00m:15s:000ms
Total Hybrid Assembly Time:	00h:05m:05s:000ms
Repeat Annotation Time:	00h:00m:24s:000ms

Overlapping Length	O(N)2 Time Complexity	Hit Index Count	Overlapping Matched Count	RI
247	120409	48	1	0
226	119716	364	170	0
201	30976	8	1	0
176	30625	171	60	0