Assembly Report

Experiment Details

ExperimentID:	Experiment 14
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:	27
Contig N50:	1126
Contig N90:	926
Number of Scaffold	1
Scaffold N50:	10080
Scaffold N90:	10080
Mis-assembly Count:	0
TotalAssembly Size:	10080

Repeat Details

Total Reads Count(Non-Repeat) :	352
Total Reads Count(Repeat):	46
Retetitve Read Count based on (Partitions Identifier):	46
Retetitve Read Count (Entire Read Frequency Identifier):	1
Retetitve Read Count (Contained Read Frequency Identifier):	1
Total Repetitive Sequences Count	196
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 GGCTTTTTTT CGACCAAAGG TAACGAGGTAA CAACCATGCG AGTGTTGAAGT	4	350	Start Position / End Position 1 / 350; 799 / 1148; 1434 / 1783; 8510 / 8859

SRGD Performance Metrics

Initial Reads Count:	1054
Reads Count after Removing Duplication:	398
Reads Count after Overlapping:	222
Initial Dataset Size in (Base):	211074
Dataset Sizet after Removing Duplication:	87057
Dataset Size after Overlapping:	49051

Overlapping Metrics

Repeat Identification Time:	00h:00m:10s:000ms
Overlapping Time:	00h:03m:34s:000ms
Reads Alignment Time:	00h:00m:17s:000ms
Total Hybrid Assembly Time:	00h:03m:51s:000ms
Repeat Annotation Time:	00h:00m:08s:000ms

Overlapping Length	O(N)2 Time Complexity	Hit Index Count	Overlapping Matched Count	RI
197	123904	51	1	0
176	123201	369	173	0
151	31684	9	2	0