Assembly Report

Experiment Details

ExperimentID:	Experiment 2
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	305

Assembly Details

Number of Contigs:	30
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) :	396
Total Reads Count(Repeat):	2
Retetitve Read Count based on (Partitions Identifier):	0
Retetitve Read Count (Entire Read Frequency Identifier):	1
Retetitve Read Count (Contained Read Frequency Identifier):	1
Total Repetitive Sequences Count	3
Total Unique Repetitive Sequences Count	1

Total Repeat Size (Base)			1000		
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 CGGG	4	250	Start Position / End Position

Start Position	End Position
1	250
699	948
1659	1908
8610	8859

SRGD Performance Metrics

Initial Reads Count:	1054
Reads Count after Removing Duplication:	398
Reads Count after Overlapping:	195
Initial Dataset Size in (Base):	211074

Dataset Sizet after Removing Duplication:	87057
Dataset Size after Overlapping:	44182

Overlapping Metrics

Repeat Identification Time:	00h:00m:04s:000ms
Overlapping Time:	00h:01m:37s:000ms
Reads Alignment Time:	00h:00m:07s:000ms
Total Hybrid Assembly Time:	00h:01m:44s:000ms
Repeat Annotation Time:	00h:00m:00s:000ms

Overlapping Length	O(N)2 Time Complexity	Hit Index Count	Overlapping Matched Count	RI
200	156816	64	2	0
199	155236	54	1	0
197	154449	61	1	0
193	153664	60	2	0
191	152100	64	1	0
187	151321	65	1	0
176	150544	415	192	0
162	38416	18	1	0
151	38025	9	2	0