Assembly Report

Experiment Details

ExperimentID:	Experiment 21
Sequencing Coverage:	31
Number of Partitions:	1
Allowed Mismatch Count in (Base):	0
Length of Sliding Window:	301

Reads Dataset Details

Total Reads Count:	1045
Total Dataset Size in (Base):	313765
Valid Read Count:	1045
Rejected Read Count:	0
Maximum Read Length:	301
Minimum Read Length:	262

Reference Genome Details

Length of Reference Genome (Base):	10080
Number of K-mers:	9780
Length of K-mer	574

Assembly Details

Number of Contigs:	13
Contig N50:	1626
Contig N90:	1576
Number of Scaffold	1
Scaffold N50:	10080
Scaffold N90:	10080
Mis-assembly Count:	0
TotalAssembly Size:	10080

Repeat Details

Total Reads Count(Non-Repeat) :	392
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)			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:	1045	
Reads Count after Removing Duplication:	394	
Reads Count after Overlapping:	126	
Initial Dataset Size in (Base):	313765	
Dataset Sizet after Removing Duplication:	129553	
Dataset Size after Overlapping:	47939	

Overlapping Metrics

Repeat Identification Time:	00h:00m:04s:000ms	
Overlapping Time:	00h:02m:13s:000ms	
Reads Alignment Time:	00h:00m:06s:000ms	
Total Hybrid Assembly Time:	00h:02m:19s:000ms	
Repeat Annotation Time:	00h:00m:00s:000ms	

Overlapping Length	O(N)2 Time Complexity	Hit Index Count	Overlapping Matched Count	RI
300	153664	67	2	0
299	152100	59	1	0
297	151321	55	1	0
293	150544	64	2	0
291	148996	71	1	0
287	148225	66	1	0
276	147456	415	189	0
262	38025	11	1	0
251	37636	8	2	0

| 226 | 36864 | 194 | 67 | 0 |
| 225 | 15625 | 10 | 1 | 0 |