Assembly Report

Experiment Details

ExperimentID:	Experiment 101
Sequencing Coverage:	21
Number of Partitions:	1
Allowed Mismatch Count in (Base):	0
Length of Sliding Window:	201

Reads Dataset Details

Total Reads Count:	2205
Total Dataset Size in (Base):	440864
Valid Read Count:	2205
Rejected Read Count:	0
Maximum Read Length:	201
Minimum Read Length:	162

Reference Genome Details

Length of Reference Genome (Base):	20160
Number of K-mers:	19960
Length of K-mer	472

Assembly Details

Number of Contigs:	52
Contig N50:	1112
Contig N90:	821
Number of Scaffold	4
Scaffold N50:	5928
Scaffold N90:	5361
Mis-assembly Count:	0
TotalAssembly Size:	22471

Repeat Details

Total Reads Count(Non-Repeat) :	798
Total Reads Count(Repeat):	6
Retetitve Read Count based on (Partitions Identifier):	0
Retetitve Read Count (Entire Read Frequency Identifier):	3
Retetitve Read Count (Contained Read Frequency Identifier):	3
Total Repetitive Sequences Count	9
Total Unique Repetitive Sequences Count	3

Total Repeat Size (Base)			1100			
Starting	Ending	Repetitive Sequences	Repeat Count	Length	Positions	
11542	17469	ATTACAGAGTA CACAACATCCT CAAAGCCTAC CGGTGACAGT GCGGGCTTTTT TTTCGACCAAA GGTAACGAGG TAACAACTCAT GGCATGCGAG TGTTGAAGTTT TCAGGAGATC CTAAAGGCAG GCTGTACCCG TTACCTAGCCA GTTGGCATTAA ACGTATCCTAG ACGGTACCTA GGCATGCCCT ACGTAATCGTA GCCTTAGCAAT CTCCAGTCC	5	220	Start Position	End Position
					11805	12024
					12025	12244
					14483	14702
					15074	15293
					17242	17461

SRGD Performance Metrics

Initial Reads Count:	2205
Reads Count after Removing Duplication:	804
Reads Count after Overlapping:	372
Initial Dataset Size in (Base):	440864
Dataset Sizet after Removing Duplication:	182580

Dataset Size after Overlapping:	84672

Overlapping Metrics

Repeat Identification Time:	00h:00m:03s:000ms
Overlapping Time:	00h:03m:09s:000ms
Reads Alignment Time:	00h:00m:13s:000ms
Total Hybrid Assembly Time:	00h:03m:22s:000ms
Repeat Annotation Time:	00h:00m:00s:000ms

Overlapping Length	O(N)2 Time Complexity	Hit Index Count	Overlapping Matched Count	RI
200	636804	252	6	0
199	627264	319	18	0
198	599076	254	9	0
197	585225	245	1	0
195	583696	218	6	0
194	574564	245	8	0
193	562500	185	2	0
192	559504	235	1	0
189	558009	222	5	0
187	550564	200	1	0
185	549081	200	1	0
183	547600	200	1	0
180	546121	219	2	0
176	543169	886	355	0
174	145924	85	2	0
173	144400	53	1	0
169	143641	65	1	0

168	142884	49	1	0
166	142129	39	1	0
161	141376	54	1	0
158	140625	67	1	0
155	139876	63	1	0
151	139129	59	4	0
144	136161	51	1	0
143	135424	37	1	0
141	134689	57	1	0