Assembly Report

Experiment Details

ExperimentID:	Experiment 49
Sequencing Coverage:	23
Number of Partitions:	4
Allowed Mismatch Count in (Base):	0
Length of Sliding Window:	51

Reads Dataset Details

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Total Reads Count:	1212
Total Dataset Size in (Base):	241272
Valid Read Count:	1212
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	326

Assembly Details

Number of Contigs:	25
Contig N50:	901
Contig N90:	676
Number of Scaffold	1
Scaffold N50:	10080
Scaffold N90:	10080
Mis-assembly Count:	0
TotalAssembly Size:	10080

Repeat Details

Total Reads Count(Non-Repeat) :	165
Total Reads Count(Repeat):	231
Retetitve Read Count based on (Partitions Identifier):	231
Retetitve Read Count (Entire Read Frequency Identifier):	3
Retetitve Read Count (Contained Read Frequency Identifier):	3
Total Repetitive Sequences Count	2904
Total Unique Repetitive Sequences Count	5

Total Repeat Size (Base)		7215				
Starting	Ending	Repetitive Sequences	Repeat Count	Length	Position	S
1	10080	AAAGAGTGTCT GATAGCAGCTT CTGAACTGGTT ACCTGCCGTG AGTAAATTAAA ATTTTATTGAC TTAGGTCACTA AATACTTTAAC CAATATAGGCA TAGCGCACAG ACAGATAAAAA TTACAGAGTAC ACAACATCCAT GAAACGCATTA GCACCACCATT ACCACCACCAT CACCATTACCA CAGGTAACGG TGCGGGA	3	202	Start Positio n 1227 5951 8498	End Positio n 1428 6152 8699

1	10080	CGGTCGAAAA ACTGCTGGCA GTGGGGCATT ACCTCGAATCT ACCGTCGATAT TGCTGAGTCC ACCCGCCGTA TTGCGGCAAG TCGTATTCCGG CTGATCACATG GTGCTGATGG CAGGTTTCACC GCCGGTAATG AAAAAGGCGA ACTGGTGGTG CTTGGACGCA CTACTCTGCTG CGGTGCTGGC CGGTGCTGGC TGCCTGTTTAC GCGCCGATTT GGACGCA	8	n 1539 3069 3377 4616 5414 6700 7986	End Positio n 1788 3318 3626 4865 5663 6949 8235 9153
		TGACGGGGTC TA			

1 10080	CTGCTTTTCAT TCTGACTGCAA CGGGCAATAT GTCTCTGTGTG GATTAAAAAAA GAGTGTCTGAT AGCAGCTTCT GAACTGGTTAC CTGCCGTGAG TAAATTAAAAT AGGTCACTAAA TACTTTAACCA ATATAGGCATA GCGCACAGAC AGATAAAAATT ACAGAGTACA CAACATCCATG AAACGCATTA	203	Start End Positio Positio n n 777 979 1176 1378 7168 7370
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1 10080	GATTCATTCGG GATGGTCTGT GTGGATTAAAA AAAGAGTGTCT GATAGCAGCTT CTGAACTGGTT ACCTGCCGTG AGTAAATTAAA ATTTTATTGAC TTAGGTCACTA AATACTTTAAC CAATATAGGCA TAGCGCACAG ACAGATAAAAA TTACAGAGTAC ACAACATCCTC AAAGCCTACC GGTGACAGTG CGGGCTTTTTT TTCGACCAAAG GTAACGAGGT AACAACCATGC GAGTGTTGAA GTCA	250	Start End Positio Position n 374 623 1975 222 2790 303 4278 452 5006 525 6355 660 7714 796 9343 959	3 24 39 27 55 04
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SRGD Performance Metrics

Initial Reads Count:	1212
Reads Count after Removing Duplication:	396
Reads Count after Overlapping:	314
Initial Dataset Size in (Base):	241272
Dataset Sizet after Removing Duplication:	100773
Dataset Size after Overlapping:	65243

Overlapping Metrics Repeat Identification Time: 00h:00m:12s:000ms Overlapping Time: 00h:03m:19s:000ms Reads Alignment Time: 00h:00m:36s:000ms Total Hybrid Assembly Time: 00h:03m:55s:000ms Repeat Annotation Time: 00h:14m:49s:000ms O(N)2 Time Overlapping Overlapping Length Hit Index Count RΙ Complexity **Matched Count** 197 23 0 27225 193 20 2 0 26896

24

141

6

26244

25600

7921

184

176

151

2

71

6

0

0

0