Assembly Report

Experiment Details

ExperimentID:	Experiment 44
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	376

Assembly Details

Number of Contigs:	28
Contig N50:	1026
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) :	334
Total Reads Count(Repeat):	67
Retetitve Read Count based on (Partitions Identifier):	64
Retetitve Read Count (Entire Read Frequency Identifier):	3
Retetitve Read Count (Contained Read Frequency Identifier):	3
Total Repetitive Sequences Count	382
Total Unique Repetitive Sequences Count	3

Total Repeat Size (Base)		3000				
Starting	Ending	Repetitive Sequences	Repeat Count	Length	Position	s
1	10080	CGGTCGAAAA ACTGCTGGCA GTGGGGCATT ACCTCGAATCT ACCGTCGATAT TGCTGAGTCC ACCCGCCGTA TTGCGGCAAG TCGTATTCCGG CTGATCACATG GTGCTGATGA CAGGTTTCACC GCCGGTAATG AAAAAGGCGA ACTGGTGGTG CTTGGACGCA CTACTCTGCTG CGGTGCTGGC TGCCTGTTTAC GCGCCGATTT GGACGGACGT TGCGAGATTT GGACGGACGT TGACGGGGTC TA	4	250	Start Positio n 1176 3630 5894 8864	End Positio n 1425 3879 6143 9113

1	10080	GATTCATTCGG GATGGTCTGT GTGGATTAAAA AAAGAGTGTCT GATAGCAGCTT CTGAACTGGTT ACCTGCCGTG AGTAAATTAAA ATTTTATTGAC TTAGGTCACTA AATACTTTAAC CAATATAGGCA TAGCGCACAG ACAGATAAAAA TTACAGAGTAC ACAACATCCTC AAAGCCTACC GGTGACAGTG CGGGCTTTTTT TTCGACCAAAG GTAACGAGGT AACAACCATGC	4	250	Start Positio n 2885 4257 6796 9434	End Positio n 3134 4506 7045 9683
		AACAACCATGC GAGTGTTGAA GTCA				

	1	i				1
		GCTTTTCATTC				
		TGACTGCAAC				
		GGGCAATATG				
		тстствтвтв				
		ATTAAAAAAAAG				
		AGTGTCTGATA				
		GCAGCTTCTG				
		AACTGGTTACC				
		TGCCGTGAGT			Start	End
		AAATTAAAATT		250 <u>1</u>	Positio	Positio
	10080	TTATTGACTTA			n	n
1		GGTCACTAAAT			1	250
		ACTTTAACCAA			699	948
		TATAGGCATAG			099	940
		CGCACAGACA			1738	1987
		GATAAAAATTA			8344	8593
		CAGAGTACAC				
		AACATCCATGA				
		AACGCATTAGC				
		ACCACCATTAC				
		CACCACCATCA				
		CCATTACCACA				
		GGTAACGGTG				
		CGGG				

SRGD Performance Metrics

Initial Reads Count:	1212
Reads Count after Removing Duplication:	401
Reads Count after Overlapping:	229
Initial Dataset Size in (Base):	241272
Dataset Sizet after Removing Duplication:	101778
Dataset Size after Overlapping:	50358

Overlapping Metrics Repeat Identification Time: 00h:00m:28s:000ms Overlapping Time: 00h:03m:30s:000ms Reads Alignment Time: 00h:00m:23s:000ms Total Hybrid Assembly Time: 00h:03m:53s:000ms Repeat Annotation Time: 00h:00m:31s:000ms O(N)2 Time Overlapping Overlapping Length Hit Index Count RΙ Complexity **Matched Count**