Assembly Report

Experiment Details

ExperimentID:	Experiment 59
Sequencing Coverage:	29
Number of Partitions:	4
Allowed Mismatch Count in (Base):	0
Length of Sliding Window:	63

Reads Dataset Details

Iteaus Dataset Details	
Total Reads Count:	1209
Total Dataset Size in (Base):	301119
Valid Read Count:	1209
Rejected Read Count:	0
Maximum Read Length:	251
Minimum Read Length:	212

Reference Genome Details

Length of Reference Genome (Base):	10080
Number of K-mers:	9830
Length of K-mer	451

Assembly Details

Number of Contigs:	15
Contig N50:	1927
Contig N90:	1126
Number of Scaffold	3
Scaffold N50:	3284
Scaffold N90:	3284
Mis-assembly Count:	0
TotalAssembly Size:	11596

Repeat Details

Total Reads Count(Non-Repeat) :	261
Total Reads Count(Repeat):	136
Retetitve Read Count based on (Partitions Identifier):	135
Retetitve Read Count (Entire Read Frequency Identifier):	3
Retetitve Read Count (Contained Read Frequency Identifier):	3
Total Repetitive Sequences Count	1039
Total Unique Repetitive Sequences Count	3

Total Repeat Size (Base)		3500				
Starting	Ending	Repetitive Sequences	Repeat Count	Length	Positions	
1	1907	GCTTTTCATTC TGACTGCAAC GGGCAATATG TCTCTGTGTGG ATTAAAAAAAA GAGTGTCTGATA GCAGCTTCTG AACTGGTTACC TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA CAGAGTACAC AACATCCATGA AACGCATTAGC ACCACCATCA CCACCATCA CCATTACCAC GGTAACGGTG CGGCTGACG CGGCTGACG CGTACAGGAA ACCCACCATCA CACCACCATCA CACCACCACC TGACAGGAA ACACCATGCG GGCTTTTTTT CGACCAAAGG TAACGAGGTAA CAACCATGCG AGTGTTGAAGT	2	350	Start En Positio Po n n 1 350 799 114	sitio O

	1	 				1
		CGGTCGAAAA				
		ACTGCTGGCA				
		GTGGGGCATT				
		ACCTCGAATCT				
		ACCGTCGATAT				
		TGCTGAGTCC				
		ACCCGCCGTA				
		TTGCGGCAAG				
		TCGTATTCCGG				
		CTGATCACATG				
		GTGCTGATGG				
		CAGGTTTCACC				
		GCCGGTAATG				
		AAAAAGGCGA				
		ACTGGTGGTG			Start	End
		CTTGGACGCA			Positio	Positio
1375	4658	ACGGTTCCGA	2	350	n	n
1373		CTACTCTGCTG			1376	1725
		CGGTGCTGGC			1370	1725
		TGCCTGTTTAC			4127	4476
		GCGCCGATTG				
		TTGCGAGATTT				
		GGACGGACGT				
		TGACGGGGTC				
		TATACCTGCGA				
		CCCGCGTCAG				
		GTGCCCGATG				
		CGAGGTTGTT				
		GAAGTCGATG				
		TCCTACCAGG				
		AAGCGATGGA				
		GCTTTCCTACT				
		TCGGCGCTCT				
		AGGTCAGGCC				

	1	 	1			1
		CGGTCGAAAA				
		ACTGCTGGCA				
		GTGGGGCATT				
		ACCTCGAATCT				
		ACCGTCGATAT				
		TGCTGAGTCC				
		ACCCGCCGTA				
		TTGCGGCAAG				
		TCGTATTCCGG				
		CTGATCACATG				
		GTGCTGATGG				
		CAGGTTTCACC				
		GCCGGTAATG				
		AAAAAGGCGA			Start	End
		ACTGGTGGTG			Positio	Positio
	10080	CTTGGACGCA		350	n	n Ositio
3676		ACGGTTCCGA	3 35			
3070		CTACTCTGCTG			4127	4476
		CGGTGCTGGC			6570	6919
		TGCCTGTTTAC			8665	9014
		GCGCCGATTG			0000	3014
		TTGCGAGATTT				
		GGACGGACGT				
		TGACGGGGTC				
		TATACCTGCGA				
		CCCGCGTCAG				
		GTGCCCGATG				
		CGAGGTTGTT				
		GAAGTCGATG				
		TCCTACCAGG				
		AAGCGATGGA				
		GCTTTCCTACT				
		TCGGCGCTCT				
		AGGTCAGGCC		Į.		

		г т		1		1
		GATTCATTCGG				
		GATGGTCTGT				
		GTGGATTAAAA				
		AAAGAGTGTCT				
		GATAGCAGCTT				
		CTGAACTGGTT				
		ACCTGCCGTG				
		AGTAAATTAAA				
		ATTTTATTGAC				
		TTAGGTCACTA				
		AATACTTTAAC				
		CAATATAGGCA				
		TAGCGCACAG				
		ACAGATAAAAA			Start	End
		TTACAGAGTAC			Positio	Positio
		ACAACATCCTC			n	n
3676	10080	AAAGCCTACC	3	350	4858	5207
		GGTGACAGTG				
		CGGGCTTTTTT			7202	7551
		TTCGACCAAAG			9332	9681
		GTAACGAGGT				
		AACAACCATGC				
		GAGTGTTGAA				
		GTCAGGAGAT				
		CCTAAAGGCC				
		TGTACCCGTTA				
		CCTAGCCAGTT				
		GGCATTAAAC				
		GTATACGGTAC				
		CTAGGCATGTA				
		CGTAATCGTAG				
		CCTTAGCAATC				
		TCCAGTCC				

SRGD Performance Metrics

Initial Reads Count:	1209
Reads Count after Removing Duplication:	397

Reads Count after Overlapping:		219			
Initial Dataset Size	in (Base):		301119		
Dataset Sizet after	Removing Duplicati	on:	126674		
Dataset Size after 0	Overlapping:		61970		
Overlapping Metri	CS		· · · · · · · · · · · · · · · · · · ·		
Repeat Identification	n Time:		00h:00n	n:06s:000ms	
Overlapping Time:			00h:01n	n:58s:000ms	
Reads Alignment T	Reads Alignment Time:		00h:00m:08s:000ms		
Total Hybrid Assem	nbly Time:		00h:02m:06s:000ms		
Repeat Annotation	Time:		00h:00m:39s:000ms		
Overlapping Length	O(N)2 Time Complexity	Hit Index (Count	Overlapping Matched Count	RI
247	68121	19		1	0
226	67600	258		122	0
221	19044	8		1	0
209	18769	19		1	0
201	18496	9		4	0
176	17424	111		49	0