Assembly Report

Experiment Details

ExperimentID:	Experiment 74
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	519

Assembly Details

Number of Contigs:	16
Contig N50:	1694
Contig N90:	1076
Number of Scaffold	2
Scaffold N50:	4605
Scaffold N90:	4605
Mis-assembly Count:	0
TotalAssembly Size:	10999

Repeat Details

Total Reads Count(Non-Repeat) :	111
Total Reads Count(Repeat):	279
Retetitve Read Count based on (Partitions Identifier):	279
Retetitve Read Count (Entire Read Frequency Identifier):	3
Retetitve Read Count (Contained Read Frequency Identifier):	3
Total Repetitive Sequences Count	3921
Total Unique Repetitive Sequences Count	3

Total Repea	it Size (Base)		9100		
Starting	Ending	Repetitive Sequences	Repeat Count	Length	Positions
1	6394	CGGTCGAAAA ACTGCTGGCA GTGGGGCATT ACCTCGAATCT ACCGTCGATAT TGCTGAGTCC ACCCGCCGTA TTGCGGCAAG TCGTATTCCGG CTGATCACATG GTGCTGATGG CAGGTTTCACC GCCGGTAATG AAAAAGGCGA ACTGGTGGTG CTTGGACGCA ACTGCTGGTGCTGCC TGCCTGTTTAC GCGCCGATTG TGCGAGATTT GGACGCA CTACTCTGCTG CGGTGCTGGC TGCCTGTTTAC GCGCCGATTG TTGCGAGATTT GGACGGACGT TGACGGGTC TGCCTGTTTAC GCGCCGATTG TTGCGAGATTT GGACGGACGT TGACGGGTC TATACCTGCGA CCCGCGTCAG GTGCCCGATG CGAGGTTGTT GAAGTCGATG TCCTACCAGG AAGCGATGGA GCTTTCCTACT TCGGCGCTCT AGGTCAGGCC	5	350	Start End Positio n n 1756 2105 3561 3910 3964 4313 5117 5466 5910 6259

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		GATTCATTCGG				
		GATGGTCTGT				
		GTGGATTAAAA				
		AAAGAGTGTCT				
		GATAGCAGCTT				
		CTGAACTGGTT				
		ACCTGCCGTG				
		AGTAAATTAAA				
		ATTTTATTGAC				
		TTAGGTCACTA				
		AATACTTTAAC				
		CAATATAGGCA			G	
		TAGCGCACAG			Start	End
		ACAGATAAAAA			Positio	Positio
		TTACAGAGTAC			n	n
		ACAACATCCTC			409	758
1	6394	AAAGCCTACC	5	350	2228	2577
		GGTGACAGTG				
		CGGGCTTTTTT			3182	3531
		TTCGACCAAAG			4730	5079
		GTAACGAGGT			5529	5878
		AACAACCATGC			0029	3070
		GAGTGTTGAA				
		GTCAGGAGAT				
		CCTAAAGGCC				
		TGTACCCGTTA				
		CCTAGCCAGTT				
		GGCATTAAAC				
		GTATACGGTAC				
		CTAGGCATGTA				
		CGTAATCGTAG				
		CCTTAGCAATC				
		TCCAGTCC				

GCTTTTCATTC TGACTGCAAC GGGCAATATG TCTCTGTGTGG ATTAAAAAAG AGTGTCTGATA GCAGCTTCTG AACTGGTTACC TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAAGCATAG CGCACAGACA GATAAAAATTA CGCACACAGACA AACGCATTAGC AACACCATTAGC AACACCATTAC AACACCATTAC AACACCATTAC AACACCATTAC AACACCACTACA AACACCACTACA AACGCACTACC ACCACCACCACCA ACCACCACCACCA ACCACCACCACCACCACCACCACCACCACCACCACCACC			1				
GGGCAATATG TCTCTGTGTGG ATTAAAAAAG AGTGTCTGATA GCAGCTTCTG AACTGGTTACC TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA CAGAGTACAC AACATCACTGA AACACACCATTAC AACACACCATTAC ACCACCATCA CCACTACCAC ACCACCATCA CCATTACCACA GGTAACAGTG CGGCTGACAGGAA ACACAGAAAAA AGCCCGCACC CGTACAGGAA ACACAGAAAAA AGCCCGCACC TGACAGTGCG GGCTTTTTTT CGACCAAAGG CGCACCAAAGG CGCACCAAAGG CGCACCAAAGG CGCCCAAAAGG CCACCAAAAGG CCACCAAAAGG CCACCAAAAGG CCACCAAAAGG CCACCAAAAGG CCACCAAAAGG CCACCACAAAAGG CCACCACAAAAAAAAAA			GCTTTTCATTC				
TCTCTGTGTGG ATTAAAAAAG AGTGTCTGATA GCAGCTTCTG AACTGGTTACC TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA 1 6394 CAGAGTACAC AACATCCATGA AACGCATTAGC ACCACCATTAC CACCACCATCA CCATTACCACA GGTAACGGTG CGGCTGACG CGGCTGACG CGCGCACAGAA AACGCGTTGC CGGCTGACG CGTACAGGAA AACACCATTAC CACCACCATCA CCATTACCACA GGTAACGGTG CGGCTGACG CGTACAGGAA ACACAGAAAAA AGCCCGCACC TGACAGGAC GGCTTTTTTT CGACCAAAGG			TGACTGCAAC				
ATTAAAAAAAG AGTGTCTGATA GCAGCTTCTG AACTGGTTACC TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAAA TATAGGCATAG CGCACAGACA GATAAAAATTA 1 6394 CAGAGTACAC AACATCCATGA AACGCATTAGC ACCACCATTAC CACCACCATCA CCATTACCACA GGTAACGGTG CGGCTGACG CGGACAGAAA ACACGCGTGACG CGTACAGGAA ACACGCGTGACG CGTACAGGAA ACACACGAAAAA ACACCGCACC TGACAGGAA AACACGCACC TGACAGTCC TGACAGTCC GGCTTTTTTT CGACCAAAGG			GGGCAATATG				
AGTGTCTGATA GCAGCTTCTG AACTGGTTACC TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA 1 6394 CAGAGTACA AACGCATTAGC ACACCACTTAC CACCACCATTAC CACCACCATCA CCACTACCAC GGTAACGGTG CGGGCTGACG CGGGCTGACG CGGCTCACAG ACACCACCAC CGGGCTGACG CGGCCTACAG ACACCACACC			тстствтвтв				
GCAGCTTCTG AACTGGTTACC TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA 1			ATTAAAAAAAAG				
AACTGGTTACC TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA 1 6394 CAGAGTACAC AACATCCATGA AACGCATTAGC ACCACCATTAC CCACCACCATCA CCATTACCACA GGTAACGGTG CGGGCTGACG CGTACAGGAA ACACCGCACC TGACAGTACG GGCTTTTTTTT CGACCAAAGG			AGTGTCTGATA				
TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA 1 6394 CAGAGTACAC AACATCCATGA AACGCATTAGC ACCACCATTAC CCACCACCATCA CCATTACCACA GGTAACGGTG CGGGCTGACG CGGCTGACG CGTACAGGAA ACACCGCACC TGACAGTACG GGCTTTTTTTT CGACCAAAGG			GCAGCTTCTG				
AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA CAGGATCAC GATCACAC AACATCCATGA AACACCATTAC ACCACCATTAC CACCACCATCA CCATTACCACA GGTAACGGTG CGGCTGACAG ACACCACCA GGTACAC GCGCTGACAG ACACCACCAC GGTACACGAA ACCACCACCA GGTAACAGAA ACCACCACC CGGCTGACAG CGGCTGACAG CGGCTTTTTTTT CGACCAAAGG			AACTGGTTACC				
TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA 1 6394 CAGAGTACAC AACATCCATGA AACGCATTAGC ACCACCATTAC CACCACCATCA CCATTACCACA GGTAACGGTG CGGCTGACG CGTACAGGAA ACACCGCACC TGACAGGAA ACGCCGCACC TGACAGTGC GGCTTTTTTTT CGACCAAAGG			TGCCGTGAGT				
GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA 1 6394 CAGAGTACAC AACATCCATGA AACGCATTAGC ACCACCATTAC CACCACCATCA CCATTACCACA GGTAACGGTG CGGCTGACG CGGCTGACG CGGCTGACG CGGCTGACG CGTACAGGAA ACACCGCACC TGACAGTGC GGCTTTTTTTT CGACCAAAGG			AAATTAAAATT				
ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA 1 6394 CAGAGTACC AACATCCATGA AACGCATTAGC ACCACCATTAC CACCACCATCA CCATTACCACA GGTAACGGTG CGGGCTGACG CGGCTGACG CGTACAGGAA ACCCCCACC TGACAGTGC GGCTTTTTTT CGACCAAAGG			TTATTGACTTA				
TATAGGCATAG CGCACAGACA GATAAAAATTA 1 6394 CAGAGTACAC AACATCCATGA AACACCATTAGC ACCACCATTAC CACCACCATCA CCATTACCACA GGTAACGGTG CGGCTGACG CGGCTGACG CGTACAGGAA ACACCAGCAC GGTACAGGAA ACACAGAAAAAA ACACAGAAAAAA AGCCCGCACC TGACAGTGCG GGCTTTTTTTT CGACCAAAGG			GGTCACTAAAT				
1			ACTTTAACCAA				
1 6394 CAGAGTACAC AACATCCATGA AACACCATTAGC ACCACCATTAC CACCACCATCA CCATTACCACA GGTAACAGGTG CGGGCTGACG CGGCTGACG CGTACAGGAA AACACAGAAAAA AGCCCGCACC TGACAGTGC GGCTTTTTTT CGACCAAAGG			TATAGGCATAG			Positio	Positio
1			CGCACAGACA			n	n
AACATCCATGA AACGCATTAGC ACCACCATTAC CACCACCATCA CCATTACCACA GGTAACGGTG CGGGCTGACG CGTACAGGAA ACACAGAAAAA AGCCCGCACC TGACAGTGCG GGCTTTTTTT CGACCAAAGG			GATAAAAATTA			1	350
AACATCCATGA AACGCATTAGC ACCACCATTAC CCACCACCATCA CCATTACCACA GGTAACGGTG CGGGCTGACG CGTACAGGAA ACACAGAAAAA AGCCCGCACC TGACAGTGCG GGCTTTTTTTT CGACCAAAGG	1	6394	CAGAGTACAC	5	350	854	1203
ACCACCATTACC ACCACCATTAC CACCACCATCA CCATTACCACA GGTAACGGTG CGGGCTGACG CGTACAGGAA ACACAGAAAAA AGCCCGCACC TGACAGTGCG GGCTTTTTTT CGACCAAAGG			AACATCCATGA				
CACCACCATCA CCATTACCACA GGTAACGGTG CGGGCTGACG CGTACAGGAA ACACAGAAAAA AGCCCGCACC TGACAGTGCG GGCTTTTTTTT CGACCAAAGG			AACGCATTAGC			1295	1644
CCATTACCACA GGTAACGGTG CGGGCTGACG CGTACAGGAA ACACAGAAAAA AGCCCGCACC TGACAGTGCG GGCTTTTTTTT CGACCAAAGG			ACCACCATTAC			2705	3054
CCATTACCACA GGTAACGGTG CGGCTGACG CGTACAGGAA ACACAGAAAAA AGCCCGCACC TGACAGTGCG GGCTTTTTTT CGACCAAAGG			CACCACCATCA			1337	1686
CGGGCTGACG CGTACAGGAA ACACAGAAAAA AGCCCGCACC TGACAGTGCG GGCTTTTTTT CGACCAAAGG			CCATTACCACA			4001	7000
CGTACAGGAA ACACAGAAAAA AGCCCGCACC TGACAGTGCG GGCTTTTTTT CGACCAAAGG			GGTAACGGTG				
ACACAGAAAAA AGCCCGCACC TGACAGTGCG GGCTTTTTTT CGACCAAAGG			CGGGCTGACG				
AGCCCGCACC TGACAGTGCG GGCTTTTTTT CGACCAAAGG			CGTACAGGAA				
TGACAGTGCG GGCTTTTTTT CGACCAAAGG			ACACAGAAAAA				
GGCTTTTTTT CGACCAAAGG			AGCCCGCACC				
CGACCAAAGG			TGACAGTGCG				
			GGCTTTTTTTT				
			CGACCAAAGG				
TAACGAGGTAA			TAACGAGGTAA				
CAACCATGCG			CAACCATGCG				
AGTGTTGAAGT			AGTGTTGAAGT				

		 	 1			1
		CGGTCGAAAA				
		ACTGCTGGCA				
		GTGGGGCATT				
		ACCTCGAATCT				
		ACCGTCGATAT				
		TGCTGAGTCC				
		ACCCGCCGTA				
		TTGCGGCAAG				
		TCGTATTCCGG				
		CTGATCACATG				
		GTGCTGATGG				
		CAGGTTTCACC				
		GCCGGTAATG				
		AAAAAGGCGA			Start	End
		ACTGGTGGTG			Positio	Positio
		CTTGGACGCA			n	n
5476	10080	ACGGTTCCGA	1	350	5910	6259
3470	10000	CTACTCTGCTG	r		7138	7487
		CGGTGCTGGC				
		TGCCTGTTTAC			8386	8735
		GCGCCGATTG			9149	9498
		TTGCGAGATTT				
		GGACGGACGT				
		TGACGGGGTC				
		TATACCTGCGA				
		CCCGCGTCAG				
		GTGCCCGATG				
		CGAGGTTGTT				
		GAAGTCGATG				
		TCCTACCAGG				
		AAGCGATGGA				
		GCTTTCCTACT				
		TCGGCGCTCT				
		AGGTCAGGCC				

				
		GATTCATTCGG		
		GATGGTCTGT		
		GTGGATTAAAA		
		AAAGAGTGTCT		
		GATAGCAGCTT		
		CTGAACTGGTT		
		ACCTGCCGTG		
		AGTAAATTAAA		
		ATTTTATTGAC		
		TTAGGTCACTA		
		AATACTTTAAC		
		CAATATAGGCA		
		TAGCGCACAG		Start End
		ACAGATAAAAA		Positio Positio
		TTACAGAGTAC		n n
		ACAACATCCTC		
5476	10080	AAAGCCTACC 4	350	5529 5878
		GGTGACAGTG		6730 7079
		CGGGCTTTTTT		8014 8363
		TTCGACCAAAG		
		GTAACGAGGT		9552 9901
		AACAACCATGC		
		GAGTGTTGAA		
		GTCAGGAGAT		
		CCTAAAGGCC		
		TGTACCCGTTA		
		CCTAGCCAGTT		
		GGCATTAAAC		
		GTATACGGTAC		
		CTAGGCATGTA		
		CGTAATCGTAG		
		CCTTAGCAATC		
		TCCAGTCC		

CGCACAGACA Positio Pos	г	r		T	1		1
GGGCAATATG TCTCTGTGTGG ATTAAAAAAAG AGTGTCTGATA GCAGCTTCTG AACTGGTTACC TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA 5476 GGGCAATATG TCTCTGTGATA GCAGCATACA TATAGGCATACA TATAGGCATACACA TATAGGCATACACA TATAGGCATACACACA TATAGGCATACACACACACACACACACACACACACACACA			GCTTTTCATTC				
TCTCTGTGTGG ATTAAAAAAAG AGTGTCTGATA GCAGCTTCTG AACTGGTTACC TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA 5476 10080 TCTCTGTGTGG ATTAAAAAAG AGTGTCTGATA GCAGCTTACC TGCCGTGAGT AAATTAAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA 5476 TCTCTGTGTGG ATTAAAAAAAA Start End Positio Pos n n 6359 670			TGACTGCAAC				
ATTAAAAAAG AGTGTCTGATA GCAGCTTCTG AACTGGTTACC TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA 5476 10080 ATTAAAAAAG ACTGGTTACC AACTGGTTACC ACTGGTTACC ACTGCTGATA ACTGGTTACC ACTGGTACC ACTGGTTACC ACTGGTACC ACTG			GGGCAATATG				
AGTGTCTGATA GCAGCTTCTG AACTGGTTACC TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA 5476 10080 CAGAGTACAC 3 350 6359 670			TCTCTGTGTGG				
GCAGCTTCTG AACTGGTTACC TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA 5476 10080 GCAGCTTCTG AACTGGTTACC TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA ACTTTAACCAA TATAGGCATACA ACTTTAACCAA TATAGGCATACA ACTTTAACCAA TATAGGCATACA ACTTTAACCAA ACTTTAAAAATTA ACTTTAACCAA ACTTTAACCAAA ACTTTAACCAAA ACTTTAACCAAAAAAAA			ATTAAAAAAAAG				
AACTGGTTACC TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA 5476 10080 CAGAGTACAC 3 350 6359 670			AGTGTCTGATA				
TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA 5476 10080 TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA TATAGGCATACAC Start End Positio Pos n n 6359 670			GCAGCTTCTG				
AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA 5476 10080 CAGAGTACAC 3 350 6359 670			AACTGGTTACC				
TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA CAGAGTACAC 3 TTATTGACTTA GGTCACTAAAT ACTTTAACCAA Fositio Positio Positio n n 6359 670			TGCCGTGAGT				
GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAAATTA 5476 10080 GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA CAGAGTACAC 3 350 6359 670			AAATTAAAATT				
ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA CAGAGTACAC 3 ACTTTAACCAA Start End Positio Pos n n 6359 670			TTATTGACTTA				
TATAGGCATAG CGCACAGACA GATAAAAATTA CAGAGTACAC 3 350 6359 670			GGTCACTAAAT				
CGCACAGACA Positio Pos			ACTTTAACCAA				
GATAAAAATTA n n n n n n n n n			TATAGGCATAG			Start	End
5476 10080 CAGAGTACAC 3 350 6359 670			CGCACAGACA			Positio	Positio
			GATAAAAATTA			n	n
	5476	10080	CAGAGTACAC	3	350	6359	6708
AACATCCATGA			AACATCCATGA				
AACGCATTAGC 7574 792			AACGCATTAGC			7574	7923
ACCACCATTAC 8752 910			ACCACCATTAC			8752	9101
CACCACCATCA			CACCACCATCA				
CCATTACCACA			CCATTACCACA				
GGTAACGGTG			GGTAACGGTG				
CGGGCTGACG			CGGGCTGACG				
CGTACAGGAA			CGTACAGGAA				
ACACAGAAAAA			ACACAGAAAAA				
AGCCCGCACC			AGCCCGCACC				
TGACAGTGCG			TGACAGTGCG				
GGCTTTTTTT			GGCTTTTTTTT				
CGACCAAAGG			CGACCAAAGG				
TAACGAGGTAA			TAACGAGGTAA				
CAACCATGCG			CAACCATGCG				
AGTGTTGAAGT			AGTGTTGAAGT				

SRGD Performance Metrics

Initial Reads Count:	1209
Reads Count after Removing Duplication:	390

Reads Count after Overlapping:			316		
Initial Dataset Size in (Base):			301119		
Dataset Sizet after Removing Duplication:			124917		
Dataset Size after Overlapping:			81996		
Overlapping Metrics					
Repeat Identification Time:			00h:00m:06s:000ms		
Overlapping Time:			00h:01m:56s:000ms		
Reads Alignment Time:			00h:00m:18s:000ms		
Total Hybrid Assembly Time:			00h:02m:14s:000ms		
Repeat Annotation Time:			00h:04m:26s:000ms		
Overlapping Length	O(N)2 Time Complexity	Hit Index Count		Overlapping Matched Count	RI
240	12321	16		4	0
237	11449	22		2	0
233	11025	17		1	0
228	10816	14		1	0
226	10609	91		46	0
201	3249	5		2	0
187	3025	8		3	0
176	2704	25		15	0