## **Assembly Report**

**Experiment Details** 

ExperimentID:	Experiment 66
Sequencing Coverage:	23
Number of Partitions:	1
Allowed Mismatch Count in (Base):	0
Length of Sliding Window:	201

**Reads Dataset Details** 

Iteaus Dataset Details	
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	414

Assembly Details

Number of Contigs:	28
Contig N50:	833
Contig N90:	755
Number of Scaffold	6
Scaffold N50:	2823
Scaffold N90:	2140
Mis-assembly Count:	0
TotalAssembly Size:	11541

Repeat Details

Total Reads Count(Non-Repeat) :	381
Total Reads Count(Repeat):	7
Retetitve Read Count based on (Partitions Identifier):	0
Retetitve Read Count (Entire Read Frequency Identifier):	4
Retetitve Read Count (Contained Read Frequency Identifier):	3
Total Repetitive Sequences Count	12
Total Unique Repetitive Sequences Count	3

Total Repeat Size (Base)		6650				
Starting	Ending	Repetitive Sequences	Repeat Count	Length	Position	S
1	2140	GCTTTTCATTC TGACTGCAAC GGGCAATATG TCTCTGTGTGG ATTAAAAAAAAG AGTGTCTGATA GCAGCTTCTG AACTGGTTACC TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA CAGAGTACAC AACATCCATGA AACGCATTAC CACCACTAC CACCACCATCA CCATTACCACA GGTAACGGTG CGGGCTGACG CGGCTGACG CGTACAGGAA ACACAGGAAAAA AGCCCGCACC TGACAGGAA ACACAGGAAAAA AGCCCGCACC TGACAGGTAC CGACCATCAC CATTTTTTT CGACCAAAGG TAACGAGGTAA CAACCATGCG AGTGTTGAAGT	3	350	Start Positio n 1 854 1295	End Positio n 350 1203 1644

	i	<del>                                     </del>				1
		CGGTCGAAAA				
		ACTGCTGGCA				
		GTGGGGCATT				
		ACCTCGAATCT				
		ACCGTCGATAT				
		TGCTGAGTCC				
		ACCCGCCGTA				
		TTGCGGCAAG				
		TCGTATTCCGG				
		CTGATCACATG				
		GTGCTGATGG				
		CAGGTTTCACC				
		GCCGGTAATG				
		AAAAAGGCGA			Start	End
		ACTGGTGGTG			Positio	Positio
		CTTGGACGCA				n
1526	4348	ACGGTTCCGA	3	350	ln 	
1520	14346	CTACTCTGCTG	3	330	1756	2105
		CGGTGCTGGC			3561	3910
		TGCCTGTTTAC			3964	4313
		GCGCCGATTG			3904	4313
		TTGCGAGATTT				
		GGACGGACGT				
		TGACGGGGTC				
		TATACCTGCGA				
		CCCGCGTCAG				
		GTGCCCGATG				
		CGAGGTTGTT				
		GAAGTCGATG				
		TCCTACCAGG				
		AAGCGATGGA				
		GCTTTCCTACT				
		TCGGCGCTCT				
		AGGTCAGGCC				

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		GATTCATTCGG				
		GATGGTCTGT				
		GTGGATTAAAA				
		AAAGAGTGTCT				
		GATAGCAGCTT				
		CTGAACTGGTT				
		ACCTGCCGTG				
		AGTAAATTAAA				
		ATTTTATTGAC				
		TTAGGTCACTA				
		AATACTTTAAC				
		CAATATAGGCA				
		TAGCGCACAG				
		ACAGATAAAAA			<u> </u>	
		TTACAGAGTAC			Start	End
		ACAACATCCTC			Positio	Positio
1526 4	348	AAAGCCTACC	2	350	n	n
		GGTGACAGTG			2228	2577
		CGGGCTTTTTT			3182	3531
		TTCGACCAAAG			0102	
		GTAACGAGGT				
		AACAACCATGC				
		GAGTGTTGAA				
		GTCAGGAGAT				
		CCTAAAGGCC				
		TGTACCCGTTA				
		CCTAGCCAGTT				
		GGCATTAAAC				
		GTATACGGTAC				
		CTAGGCATGTA				
		CGTAATCGTAG				
		CCTTAGCAATC				
		TCCAGTCC				

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		CGGTCGAAAA				
		ACTGCTGGCA				
		GTGGGGCATT				
		ACCTCGAATCT				
		ACCGTCGATAT				
		TGCTGAGTCC				
		ACCCGCCGTA				
		TTGCGGCAAG				
		TCGTATTCCGG				
		CTGATCACATG				
		GTGCTGATGG				
		CAGGTTTCACC				
		GCCGGTAATG				
		AAAAAGGCGA				
		ACTGGTGGTG			Start	End
		CTTGGACGCA			Positio	Positio
4113	6294	ACGGTTCCGA	2	350	n	n
4113	0294	CTACTCTGCTG	2		5117	5466
		CGGTGCTGGC				
		TGCCTGTTTAC			5910	6259
		GCGCCGATTG				
		TTGCGAGATTT				
		GGACGGACGT				
		TGACGGGGTC				
		TATACCTGCGA				
		CCCGCGTCAG				
		GTGCCCGATG				
		CGAGGTTGTT				
		GAAGTCGATG				
		TCCTACCAGG				
		AAGCGATGGA				
		GCTTTCCTACT				
		TCGGCGCTCT				
		AGGTCAGGCC				

		CATTCATTCCC				
		GATTCATTCGG				
		GATGGTCTGT				
		GTGGATTAAAA				
		AAAGAGTGTCT				
		GATAGCAGCTT				
		CTGAACTGGTT				
		ACCTGCCGTG				
		AGTAAATTAAA				
		ATTTTATTGAC				
		TTAGGTCACTA				
		AATACTTTAAC				
		CAATATAGGCA				
		TAGCGCACAG				
		ACAGATAAAAA			Start	End
		TTACAGAGTAC			Positio	Positio
		ACAACATCCTC				
4113	6294	AAAGCCTACC	2	350	n	n
		GGTGACAGTG			4730	5079
		CGGGCTTTTTT			5529	5878
		TTCGACCAAAG				
		GTAACGAGGT				
		AACAACCATGC				
		GAGTGTTGAA				
		GTCAGGAGAT				
		CCTAAAGGCC				
		TGTACCCGTTA				
		CCTAGCCAGTT				
		GGCATTAAAC				
		GTATACGGTAC				
		CTAGGCATGTA				
		CGTAATCGTAG				
		CCTTAGCAATC				
		TCCAGTCC				

6076	9108	CGGTCGAAAA ACTGCTGGCA GTGGGGCATT ACCTCGAATCT ACCGTCGATAT TGCTGAGTCC ACCCGCCGTA TTGCGGCAAG TCGTATTCCGG CTGATCACATG GTGCTGATGG CAGGTTTCACC GCCGGTAATG AAAAAGGCGA ACTGGTGGTG CTTGGACGCA ACGGTTCCGA CTACTCTGCTG CGGTGCTGGC TGCCTGTTTAC GCGCCGATTG TTGCGAGATTT GGACGCATTG TTGCGAGATTT GGACGCATTG TTGCGAGTTT CGGCGCTCTG CGGTGCTGCC TGCCTGTTTAC GCGCCGATTG TTGCGAGATTT GAACGGGTC TGACGGGTC TGACGGGTC TGCCGGTCAG CCCGCGTCAG CCCGCGTCAG CCGCGTCAG CCGCGTCAC CCGCGCTCT C	2	350	Start Positio n 7138 8386	End Positio n 7487 8735
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		1	1	<del></del>
		GATTCATTCGG		
		GATGGTCTGT		
		GTGGATTAAAA		
		AAAGAGTGTCT		
		GATAGCAGCTT		
		CTGAACTGGTT		
		ACCTGCCGTG		
		AGTAAATTAAA		
		ATTTTATTGAC		
		TTAGGTCACTA		
		AATACTTTAAC		
		CAATATAGGCA		
		TAGCGCACAG		
		ACAGATAAAAA		
		TTACAGAGTAC		Start End
		ACAACATCCTC		Positio Positio
6076	9108	AAAGCCTACC 2	350	n n
		GGTGACAGTG		6730 7079
		CGGGCTTTTTT		8014 8363
		TTCGACCAAAG		0011  0000
		GTAACGAGGT		
		AACAACCATGC		
		GAGTGTTGAA		
		GTCAGGAGAT		
		CCTAAAGGCC		
		TGTACCCGTTA		
		CCTAGCCAGTT		
		GGCATTAAAC		
		GTATACGGTAC		
		CTAGGCATGTA		
		CGTAATCGTAG		
		CCTTAGCAATC		
		TCCAGTCC		

GCTTTTCATTC TGACTGCAAC GGGCAATATG TCTCTGTGTGG ATTAAAAAAAG AGTGTCTGATA GCAGCTTCTG AACTGGTTACC TGCCGTGAGT AAATTAAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA CGACATTAGC AACACCATTAGC AACACCATTAC CACCACCATCA CCATTACCAC GGTAACGG CGGCTGACG CGGCTGACG CGGCTGACG CGGCTGACG CGGCTGACG CGGCACAAA ACGCCACCAC GGTAACGAA ACGCCACCAC GGTACGGAA ACACCACCACC TGACAGGAA ACACCACCAC GGCTTTTTTTT CGACCAAAGG TAACGAGGTAA CAACCATGCG AGTGTTGAAGT		1	i	ı	i		
GGGCAATATG TCTCTGTGGG ATTAAAAAAAG AGTGTCTGATA GCAGCTTCTG AACTGGTTACC TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTITAACCAA TATAGCATAG CGCACAGACA GATAAAAATTA ACTITAACCAA AACATCCATGA AACACCATTAC ACACCATTAC CACCACCATCA CCATTACCACA GGTAACGGTG CGGCTGACG CGGCTTTTTTT CGACCAAAGG TAACAGGTAA CAACCATGCG TAACGAGGTAA CAACCATGCG			GCTTTTCATTC				
TCTCTGTGTGG ATTAAAAAAG AGTGTCTGATA GCAGCTTCTG AACTGGTTACC TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTITAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA CAGACTACAC AACATCCATGA AACGCATTAGC ACACCACTTAC CACCACCACA CCATTACCACA GGTAACGGTG CGGCTGACG CGTACAGGAA ACCCGCACC CCATTACCACA GGTAACGGTG CGGCTGACG CGTACAGGAA ACCCGCACC TGACAGGAA ACCCGCACC TGACAGGCG GGCTTTTTTT CGACCAAAGG TAACGAGGTAA CAACCATGCG			TGACTGCAAC				
ATTAAAAAAG AGTGTCTGATA GCAGCTTCTG AACTGGTTACC TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA ACATCAATGA AACACCATTAGC ACCACCATCA CCATTACCACA GGTAACGGTG CGGGCTGACG CGTACAGGAA ACACAGAAAAA ACACCAGTGC CGGGCTGACG CGTACAGGAA ACACACACCAC GGTACAGCA GGTAACGGTG CGGCCCC TGACAGGAA ACACCACCAC GGCTTTTTTT CGACCAAAGG TAACGAGTAA CAACCATGCG			GGGCAATATG				
AGTGTCTGATA GCAGCTTCTG AACTGGTTACC TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA  6076  9108  CAGAGTACAC AACACCATGA AACGCATTAGC ACCACCATTAC CACCACTACA CCATTACCACA GGTAACGGAA ACGCATTACC CACCACTCA CCATTACCACA GGTACAGAA ACACACAAAA ACACACAAAA ACACACAAAA ACACACAACA			TCTCTGTGTGG				
GCAGCTTCTG AACTGGTTACC TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA  6076  9108  CAGAGTACC AACATCCATGA AACGCATTAGC ACCACCATTAC CACCACCATCA CCATTACCACA GGTAACGGTG CGGGCTGACG CGTACAGGAA ACCACGACA GGTAACGGTG CGGCTGACG CGTACAGGAA ACCCAGCACC TGACAGGAAA AACCCCGCCC TGACAGGAAA CAACCATCAG GGTTTTTTT CGACCAAAGG TAACGAGTAA CAACCATGCG			ATTAAAAAAAAG				
AACTGGTTACC TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA 6076  9108  CAGAGTACAC AACATCCATGA AACGCATTAC CACCACCATTAC CACCACCATCAC CCATTACCACA GGTAACGGTG CGGGCTGACG CGTACAGGAA ACACCAGCAC GGTAACGGTG CGGGCTGACG CGTACAGGAA ACACCAGCAC GGTACGGAC GGTACGGC GGCTTTTTTTT CGACCAAAGG TAACGAGGTAA CAACCATGCG			AGTGTCTGATA				
TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA  6076  9108  CAGAGTACAC AACATCCATGA AACGCATTACC ACCACCACTACA CCACTACACA CCATTACCACA GGTAACGCG GGCTGACG CGGCTGACG CGGCTGACG CGGCTGACG CGGCTGACG CGGCTTTTTTTT CGACCAAAGG TACGAGGTAA CAACCATGCG			GCAGCTTCTG				
AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA CAGAGTACAC AACATCCATGA AACGCATTAGC ACCACCATTAC CACCACCATCA CCATTACCACA GGTAACGGTG CGGGCTGACG CGGCTGACG CGTACAGGAA ACACCAGGAA ACACCAGCAC GGTACAGGAA ACACCAGCAC GGTACAGGAA ACACCAGCAC CCATTACCCAC CCATTACCAC CCATTACCAC CCATTACCAC CCATTACCAC CCATTACCAC CCATTACCAC CCATTACCAC CCATTACCAC CCATCACGC CGGCTGACG CGGCTGACG CGGCTGACG CGGCTACAGGAA ACACCAGAAAAA AGCCCGCACC TGACAGGAA CACCAGAGG TAACGAGGTAA CAACCATGCG			AACTGGTTACC				
TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA 6076  9108  CAGAGTACAC AACATCCATGA AACGCATTAGC ACCACCATTAC CCACCACCACA GGTAACGGTG CGGGCTGACG CGTACAGGAA ACACCACCAC GGTACAGGAA ACACCACCAC GGTACAGGAA ACACCACCAC GGTACAGGAA ACACCACCAC GGTACAGGAA ACACCACCAC CCATTTTTTT CGACCAAAGG TAACGAGTAA CAACCATGCG			TGCCGTGAGT				
GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA 6076  9108  CAGAGTACAC AACATCCATGA AACGCATTAGC ACCACCATTAC CACCACCATCA CCATTACCACA GGTAACGGTG CGGGCTGACG CGGCTGACG CGTACAGGAA AACACCGCACC TGACAGAAAAA AGCCCGCACC TGACAGTCA GGTTTTTTT CGACCAAAGG TAACGAGTAA CAACCATGCG			AAATTAAAATT				
ACTITAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA 6076  9108  CAGAGTACAC AACGCATTAGC ACCACCATTAC CACCACCATCA CCATTACCACA GGTAACGGTG CGGCTGACG CGTACAGGAA ACCCCGCACC TGACAGGAA ACCCCCACCC TGACAGTCG GGCTTTTTTTT CGACCAAAGG TAACGAGTAA CAACCATCGC			TTATTGACTTA				
TATAGGCATAG CGCACAGACA GATAAAAATTA GO76  9108  CAGAGTACAC AACATCCATGA AACGCATTAGC ACCACCATTAC CCACCACCATCA CCATTACCACA GGTAACAGGAA ACACCAGAAAA ACACCAGAAAAA ACACCAGAAAAA ACACCAGAAAAA AGCCCGCACC TGACAGTGCG GGCTTTTTTT CGACCAAAGG TAACGAGTAA CAACCATGCG			GGTCACTAAAT				
CGCACAGACA GATAAAAATTA CAGAGTACAC AACATCCATGA AACGCATTACC CACCACCATCA CCATTACCACA GGTAACGGTG CGGCTGACG CGTACAGGAA ACACAGAAAAA ACCCGCACC TGACAGGAC ACCACCACC TGACAGTGC GGCTTTTTTT CGACCAAAGG TAACGAGTAA CAACCATGCG			ACTTTAACCAA				
GATAAAAATTA CAGAGTACAC AACATCCATGA AACGCATTAGC ACCACCATCA CCACTACC CACCACCACA GGTAACGGTG CGGCTGACG CGTACAGGAA ACCACGACAC CGTACAGGAA ACCACGACAC CGATCACGC CGACCACCAC CGACCACCAC CGACCACCAC CGACCACCAC CCATTACC CACCACCAC CCATTACCAC CGACCACC TGACAGGAA ACACAGGAAAAA AGCCCGCACC TGACAGTGCG GGCTTTTTTT CCGACCAAAGG TAACGAGGTAA CAACCATGCG			TATAGGCATAG			Start	End
6076  9108  CAGAGTACAC  AACATCCATGA  AACGCATTAGC  ACCACCATTAC  CACCACCATCA  CCATTACCACA  GGTAACGGTG  CGGGCTGACG  CGTACAGGAA  ACACAGAAAAA  AGCCCGCACC  TGACAGTGCG  GGCTTTTTTT  CGACCAAAGG  TAACGAGGTAA  CAACCATGCG			CGCACAGACA			Positio	Positio
AACATCCATGA AACGCATTAGC ACCACCATTAC CACCACCATCA CCATTACCACA GGTAACGGTG CGGCTGACG CGTACAGGAA ACACAGAAAAA AGCCCGCACC TGACAGTGCG GGCTTTTTTT CGACCAAAGG TAACGAGTAA CAACCATGCG			GATAAAAATTA			n	n
AACATCCATGA AACGCATTAGC ACCACCATTAC CACCACCATCA CCATTACCACA GGTAACGGTG CGGGCTGACG CGTACAGGAA ACACAGAAAAA AGCCCGCACC TGACAGTGCG GGCTTTTTTTT CGACCAAAGG TAACGAGTAA CAACCATGCG	6076	9108	CAGAGTACAC	3	350	6359	6708
ACCACCATTAC  ACCACCATTAC  CACCACCATCA  CCATTACCACA  GGTAACGGTG  CGGCTGACG  CGTACAGGAA  ACACAGAAAAA  AGCCCGCACC  TGACAGTGCG  GGCTTTTTTT  CGACCAAAGG  TAACGAGGTAA  CAACCATGCG			AACATCCATGA				
CACCACCATCA CCATTACCACA GGTAACGGTG CGGGCTGACG CGTACAGGAA ACACAGAAAAA AGCCCGCACC TGACAGTGCG GGCTTTTTTT CGACCAAAGG TAACGAGGTAA CAACCATGCG			AACGCATTAGC			7574	7923
CCATTACCACA GGTAACGGTG CGGCTGACG CGTACAGGAA ACACAGAAAAA AGCCCGCACC TGACAGTGCG GGCTTTTTTT CGACCAAAGG TAACGAGGTAA CAACCATGCG			ACCACCATTAC			8752	9101
GGTAACGGTG CGGGCTGACG CGTACAGGAA ACACAGAAAAA AGCCCGCACC TGACAGTGCG GGCTTTTTTT CGACCAAAGG TAACGAGGTAA CAACCATGCG			CACCACCATCA				
CGGGCTGACG CGTACAGGAA ACACAGAAAAA AGCCCGCACC TGACAGTGCG GGCTTTTTTT CGACCAAAGG TAACGAGGTAA CAACCATGCG			CCATTACCACA				
CGTACAGGAA ACACAGAAAAA AGCCCGCACC TGACAGTGCG GGCTTTTTTT CGACCAAAGG TAACGAGGTAA CAACCATGCG			GGTAACGGTG				
ACACAGAAAAA AGCCCGCACC TGACAGTGCG GGCTTTTTTT CGACCAAAGG TAACGAGGTAA CAACCATGCG			CGGGCTGACG				
AGCCCGCACC TGACAGTGCG GGCTTTTTTT CGACCAAAGG TAACGAGGTAA CAACCATGCG			CGTACAGGAA				
TGACAGTGCG GGCTTTTTTT CGACCAAAGG TAACGAGGTAA CAACCATGCG			ACACAGAAAAA				
GGCTTTTTTT CGACCAAAGG TAACGAGGTAA CAACCATGCG			AGCCCGCACC				
CGACCAAAGG TAACGAGGTAA CAACCATGCG			TGACAGTGCG				
TAACGAGGTAA CAACCATGCG			GGCTTTTTTTT				
CAACCATGCG			CGACCAAAGG				
			TAACGAGGTAA				
AGTGTTGAAGT			CAACCATGCG				
			AGTGTTGAAGT				

## SRGD Performance Metrics

Initial Reads Count:	1212
Reads Count after Removing Duplication:	388

Reads Count after Overlapping:			134		
Initial Dataset Size in (Base):			241272		
Dataset Sizet after	Removing Duplication	n:	99165		
Dataset Size after 0	Overlapping:		30984		
Overlapping Metri	CS				
Repeat Identificatio	n Time:		00h:00m:09s:000ms		
Overlapping Time:			00h:03m:53s:000ms		
Reads Alignment Time:			00h:00m:18s:000ms		
Total Hybrid Assembly Time:			00h:04m:11s:000ms		
Repeat Annotation Time:			00h:00m:02s:000ms		
Overlapping Length	O(N)2 Time Complexity	Hit Index Count		Overlapping Matched Count	RI
200	145161	207		33	0
199	121104	201		19	0
198	108241	172		15	0
197	98596	150		21	0
196	85849	114		6	0
195	82369	79		2	0
194	81225	119		8	0
193	76729	78		6	0
191	73441	70		1	0
188	72900	83		4	0
187	70756	87		1	0
186	70225	84		2	0

69169	108	1	0
68644	88	2	0
67600	116	1	0
67081	116	2	0
66049	121	1	0
65536	111	1	0
65025	302	114	0
19881	33	1	0
19600	45	1	0
19321	23	1	0
19044	14	1	0
18769	27	3	0
17956	21	1	0
17689	25	3	0
16900	23	1	0
16641	22	1	0
16384	21	1	0
	68644 67600 67081 66049 65536 65025 19881 19600 19321 19044 18769 17956 17689 16900 16641	68644       88         67600       116         67081       116         66049       121         65536       111         65025       302         19881       33         19600       45         19321       23         19044       14         18769       27         17956       21         17689       25         16900       23         16641       22	68644       88       2         67600       116       1         67081       116       2         66049       121       1         65536       111       1         65025       302       114         19881       33       1         19600       45       1         19321       23       1         19044       14       1         18769       27       3         17956       21       1         17689       25       3         16900       23       1         16641       22       1