## **Assembly Report**

Experiment Details

ExperimentID:	Experiment 75
Sequencing Coverage:	29
Number of Partitions:	5
Allowed Mismatch Count in (Base):	0
Length of Sliding Window:	51

**Reads Dataset Details** 

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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	576

Assembly Details

Number of Contigs:	16
Contig N50:	1539
Contig N90:	1176
Number of Scaffold	1
Scaffold N50:	10080
Scaffold N90:	10080
Mis-assembly Count:	0
TotalAssembly Size:	10080

Repeat Details

Total Reads Count(Non-Repeat) :	53
Total Reads Count(Repeat):	337
Retetitve Read Count based on (Partitions Identifier):	337
Retetitve Read Count (Entire Read Frequency Identifier):	3
Retetitve Read Count (Contained Read Frequency Identifier):	3
Total Repetitive Sequences Count	6529
Total Unique Repetitive Sequences Count	6

Total Repeat Size (Base)			10673			
Starting	Ending	Repetitive Sequences	Repeat Count	Length	Position	s
1	10080	AGGTCACTAAA TACTTTAACCA ATATAGGCATA GCGCACAGAC AGATAAAAATT ACAGAGTACA CAACATCCTCA AAGCCTACCG GTGACAGTGC GGGCTTTTTT TCGACCAAAG GTAACGAGGT AACAACCATGC GAGTGTTGAA GTCAGGAGAT CCTAAAGGCC TGTACCCGTTA CCTAGCCAGTT GGCATTAAAC GTATACGGTAC CTAGGCATGTA CCTAGGCATGTA CCTAGCCATGT CCTAGCCATC CTAGCCATCT CCTAGCCATC	3	253	Start Positio n 2327 4829 9651	End Positio n 2579 5081 9903

						1
		CGGTCGAAAA				
		ACTGCTGGCA				
		GTGGGGCATT				
		ACCTCGAATCT				
		ACCGTCGATAT				
		TGCTGAGTCC				
		ACCCGCCGTA				
		TTGCGGCAAG				
		TCGTATTCCGG				
		CTGATCACATG				
		GTGCTGATGG			Start	End
		CAGGTTTCACC			Positio	Positio
		GCCGGTAATG			n	n
		AAAAAGGCGA			1756	2105
		ACTGGTGGTG				
		CTTGGACGCA	8	350	3561	3910
1	10080	ACGGTTCCGA			3964	4313
'	10000	CTACTCTGCTG	O	330	5117	5466
		CGGTGCTGGC				
		TGCCTGTTTAC			5910	6259
		GCGCCGATTG			7138	7487
		TTGCGAGATTT			8386	8735
		GGACGGACGT				
		TGACGGGGTC			9149	9498
		TATACCTGCGA				
		CCCGCGTCAG				
		GTGCCCGATG				
		CGAGGTTGTT				
		GAAGTCGATG				
		TCCTACCAGG				
		AAGCGATGGA				
		GCTTTCCTACT				
		TCGGCGCTCT				
		AGGTCAGGCC				

	T	г	1			
		GATTCATTCGG				
		GATGGTCTGT				
		GTGGATTAAAA				
		AAAGAGTGTCT				
		GATAGCAGCTT				
		CTGAACTGGTT				
		ACCTGCCGTG				
		AGTAAATTAAA				
		ATTTTATTGAC				
		TTAGGTCACTA			Ctout	
		AATACTTTAAC			Start	End
		CAATATAGGCA			Positio	Positio
		TAGCGCACAG			n	n
		ACAGATAAAAA			409	758
		TTACAGAGTAC			2228	2577
		ACAACATCCTC				
1	10080	AAAGCCTACC	8	350	3182	3531
		GGTGACAGTG			4730	5079
		CGGGCTTTTTT			5529	5878
		TTCGACCAAAG				
		GTAACGAGGT			6730	7079
		AACAACCATGC			8014	8363
		GAGTGTTGAA			9552	9901
		GTCAGGAGAT			9332	19901
		CCTAAAGGCC				
		TGTACCCGTTA				
		CCTAGCCAGTT				
		GGCATTAAAC				
		GTATACGGTAC				
		CTAGGCATGTA				
		CGTAATCGTAG				
		CCTTAGCAATC				
		TCCAGTCC				

	·		1			
		GCTTTTCATTC				
		TGACTGCAAC				
		GGGCAATATG				
		тстствтвтв				
		ATTAAAAAAAAG				
		AGTGTCTGATA				
		GCAGCTTCTG				
		AACTGGTTACC				
		TGCCGTGAGT				
		AAATTAAAATT			C4 = "4	C to al
		TTATTGACTTA			Start	End
		GGTCACTAAAT				Positio
		ACTTTAACCAA			n	n
		TATAGGCATAG			1	350
		CGCACAGACA			854	1203
		GATAAAAATTA				
1	10080	CAGAGTACAC	8	350	1295	1644
		AACATCCATGA			2705	3054
		AACGCATTAGC			4337	4686
		ACCACCATTAC				
		CACCACCATCA			6359	6708
		CCATTACCACA			7574	7923
		GGTAACGGTG			8752	9101
		CGGGCTGACG			0732	9101
		CGTACAGGAA				
		ACACAGAAAAA				
		AGCCCGCACC				
		TGACAGTGCG				
		GGCTTTTTTTT				
		CGACCAAAGG				
		TAACGAGGTAA				
		CAACCATGCG				
		AGTGTTGAAGT				

1	10080	GTGATTCATTC GGGATGGTCT GTGTGGATTAA AAAAAGAGTGT CTGATAGCAG CTTCTGAACTG GTTACCTGCC GTGAGTAAATT AAAATTTTATT GACTTAGGTCA CTAAATACTTT AACCAATATAG GCATAGCGCA CAGACAGATAA AAATTACAGAG TACACAACATC CTCAAAGCCTA CCGGTGACAG TGCGGGCTTTT TTTTCGACCAA AGGTAACAACAT GCGAGTGTCG	2	253	Start Positio n 2226 4728	End Positio n 2478 4980
		GTAACAACCAT GCGAGTGTTG AAGTCAG				

	i					
		TGCTTTTCATT				
		CTGACTGCAA				
		CGGGCAATAT				
		<b>GTCTCTGTGTG</b>				
		GATTAAAAAAA				
		GAGTGTCTGAT				
		AGCAGCTTCT				
		GAACTGGTTAC				
		CTGCCGTGAG			Start	End
		TAAATTAAAAT			Positio	Positio
		TTTATTGACTT		252	n	n
	40000	AGGTCACTAAA	14 I		853	1104
1	10080	TACTTTAACCA			4004	4545
		ATATAGGCATA			1294	1545
		GCGCACAGAC			2704	2955
		AGATAAAAATT			7573	7824
		ACAGAGTACA			10.0	1.02.
		CAACATCCATG				
		AAACGCATTAG				
		CACCACCATTA				
		CCACCACCAT				
		CACCATTACCA				
		CAGGTAACGG				
		TGCGGGC				

SRGD Performance Metrics

Initial Reads Count:	1209
Reads Count after Removing Duplication:	390
Reads Count after Overlapping:	359
Initial Dataset Size in (Base):	301119
Dataset Sizet after Removing Duplication:	124917
Dataset Size after Overlapping:	91159

**Overlapping Metrics** Repeat Identification Time: 00h:00m:07s:000ms Overlapping Time: 00h:01m:54s:000ms Reads Alignment Time: 00h:00m:21s:000ms Total Hybrid Assembly Time: 00h:02m:15s:000ms Repeat Annotation Time: 00h:19m:37s:000ms O(N)2 Time Overlapping Overlapping Length Hit Index Count RΙ Complexity **Matched Count**