Assembly Report

Experiment Details

ExperimentID:	Experiment 73
Sequencing Coverage:	29
Number of Partitions:	3
Allowed Mismatch Count in (Base):	0
Length of Sliding Window:	84

Reads Dataset Details

IVEGOS DAIGSEL DEIGIIS	
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	549

Assembly Details

Number of Contigs:	15
Contig N50:	1358
Contig N90:	1130
Number of Scaffold	4
Scaffold N50:	2859
Scaffold N90:	2140
Mis-assembly Count:	0
TotalAssembly Size:	11191

Repeat Details

Total Reads Count(Non-Repeat) :	251
Total Reads Count(Repeat):	139
Retetitve Read Count based on (Partitions Identifier):	138
Retetitve Read Count (Entire Read Frequency Identifier):	3
Retetitve Read Count (Contained Read Frequency Identifier):	3
Total Repetitive Sequences Count	1099
Total Unique Repetitive Sequences Count	3

Total Repeat Size (Base)			7350			
Starting	Ending	Repetitive Sequences	Repeat Count	Length	Position	s
1	2140	GCTTTTCATTC TGACTGCAAC GGGCAATATG TCTCTGTGTGG ATTAAAAAAAA GAGTGTCTGATA GCAGCTTCTG AACTGGTTACC TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA CAGAGTACAC AACATCCATGA AACGCATTAGC ACCACCATCA CCACCATCAC CCACCACCATCA CGGGCTGACG CGGCTGACG CGGCTGACG CGGCTGACG CGTACAGGAA ACACCATCAC CACCACCATCA CCATTACCAC CCATTACCAC CCATTACCAC CACCACCATCA CACCACCACC TGACAGGAA ACACAGAAAAA AGCCCGCACC TGACAGTGCG GGCTTTTTTT CGACCAAAGG TAACGAGGTAA CAACCATGCG AGTGTTGAAGT	3	350	Start Positio n 1 854 1295	End Positio n 350 1203 1644

		1	I			1
		CGGTCGAAAA				
		ACTGCTGGCA				
		GTGGGGCATT				
		ACCTCGAATCT				
		ACCGTCGATAT				
		TGCTGAGTCC				
		ACCCGCCGTA				
		TTGCGGCAAG				
		TCGTATTCCGG				
		CTGATCACATG				
		GTGCTGATGG				
		CAGGTTTCACC				
		GCCGGTAATG			Start	End
		AAAAAGGCGA			Positio	Positio
	7490	ACTGGTGGTG			n	n
		CTTGGACGCA			3561	3910
2626		ACGGTTCCGA	5			
2020		CTACTCTGCTG			3964	4313
		CGGTGCTGGC			5117	5466
		TGCCTGTTTAC			5910	6259
		GCGCCGATTG				
		TTGCGAGATTT			7138	7487
		GGACGGACGT				
		TGACGGGGTC				
		TATACCTGCGA				
		CCCGCGTCAG				
		GTGCCCGATG				
		CGAGGTTGTT				
		GAAGTCGATG				
		TCCTACCAGG				
		AAGCGATGGA				
		GCTTTCCTACT				
		TCGGCGCTCT				
		AGGTCAGGCC				

		ı				
		GATTCATTCGG				
		GATGGTCTGT				
		GTGGATTAAAA				
		AAAGAGTGTCT				
		GATAGCAGCTT				
		CTGAACTGGTT				
		ACCTGCCGTG				
		AGTAAATTAAA				
		ATTTTATTGAC				
		TTAGGTCACTA				
		AATACTTTAAC				
		CAATATAGGCA				
		TAGCGCACAG			Start	End
		ACAGATAAAAA				Positio
		TTACAGAGTAC			n n	n
		ACAACATCCTC			2402	
2626	7490	AAAGCCTACC	4	350	3182	3531
		GGTGACAGTG			4730	5079
		CGGGCTTTTTT			5529	5878
		TTCGACCAAAG			6700	7070
		GTAACGAGGT			6730	7079
		AACAACCATGC				
		GAGTGTTGAA				
		GTCAGGAGAT				
		CCTAAAGGCC				
		TGTACCCGTTA				
		CCTAGCCAGTT				
		GGCATTAAAC				
		GTATACGGTAC				
		CTAGGCATGTA				
		CGTAATCGTAG				
		CCTTAGCAATC				
		TCCAGTCC				

	Ī					1
		GCTTTTCATTC				
		TGACTGCAAC				
		GGGCAATATG				
		тстстдтдтдд				
		ATTAAAAAAAAG				
		AGTGTCTGATA				
		GCAGCTTCTG				
		AACTGGTTACC				
		TGCCGTGAGT				
		AAATTAAAATT				
		TTATTGACTTA				
		GGTCACTAAAT				
		ACTTTAACCAA				
		TATAGGCATAG			Start	End
		CGCACAGACA			Positio	Positio
		GATAAAAATTA			n	n
2626	7490	CAGAGTACAC	3	350	2705	3054
		AACATCCATGA				
		AACGCATTAGC			4337	4686
		ACCACCATTAC			6359	6708
		CACCACCATCA				
		CCATTACCACA				
		GGTAACGGTG				
		CGGGCTGACG				
		CGTACAGGAA				
		ACACAGAAAAA				
		AGCCCGCACC				
		TGACAGTGCG				
		GGCTTTTTTTT				
		CGACCAAAGG				
		TAACGAGGTAA				
		CAACCATGCG				
		AGTGTTGAAGT				

			i	1		1
		CGGTCGAAAA				
		ACTGCTGGCA				
		GTGGGGCATT				
		ACCTCGAATCT				
		ACCGTCGATAT				
		TGCTGAGTCC				
		ACCCGCCGTA				
		TTGCGGCAAG				
		TCGTATTCCGG				
		CTGATCACATG				
		GTGCTGATGG				
		CAGGTTTCACC				
		GCCGGTAATG				
		AAAAAGGCGA				
		ACTGGTGGTG			Start	End
	10080	CTTGGACGCA			Positio	Positio
7222		ACGGTTCCGA		350	n	n
1222		CTACTCTGCTG 2	2		8386	8735
		светветве				
		TGCCTGTTTAC			9149	9498
		GCGCCGATTG				
		TTGCGAGATTT				
		GGACGGACGT				
		TGACGGGGTC				
		TATACCTGCGA				
		CCCGCGTCAG				
		GTGCCCGATG				
		CGAGGTTGTT				
		GAAGTCGATG				
		TCCTACCAGG				
		AAGCGATGGA				
		GCTTTCCTACT				
		TCGGCGCTCT				
		AGGTCAGGCC				

		GATTCATTCGG GATGGTCTGT GTGGATTAAAA AAAGAGTGTCT GATAGCAGCTT CTGAACTGGTT ACCTGCCGTG AGTAAATTAAA ATTTTATTGAC TTAGGTCACTA AATACTTTAAC			
7222	10080	ACAACATCCTC AAAGCCTACC GGTGACAGTG CGGGCTTTTTT TTCGACCAAAG GTAACGAGGT AACAACCATGC GAGTGTTGAA GTCAGGAGAT CCTAAAGGCC TGTACCCGTTA CCTAGCCAGTT GGCATTAAAC GTATACGGTAC CTAGGCATGTA CGTAATCGTAG CCTTAGCAATC TCCAGTCC	350	9552	9901

			1			
		GCTTTTCATTC				
		TGACTGCAAC				
		GGGCAATATG				
		тстстдтдтдд				
		ATTAAAAAAAAG				
		AGTGTCTGATA				
		GCAGCTTCTG				
		AACTGGTTACC				
		TGCCGTGAGT				
		AAATTAAAATT				
		TTATTGACTTA				
		GGTCACTAAAT				
		ACTTTAACCAA				
		TATAGGCATAG				
	10080	CGCACAGACA		350	Start	End
		GATAAAAATTA			Positio	Positio
7222		CAGAGTACAC	2		n	n
		AACATCCATGA			7574	7923
		AACGCATTAGC			8752	9101
		ACCACCATTAC			0.02	0.01
		CACCACCATCA				
		CCATTACCACA				
		GGTAACGGTG				
		CGGGCTGACG				
		CGTACAGGAA				
		ACACAGAAAAA				
		AGCCCGCACC				
		TGACAGTGCG				
		GGCTTTTTTTT				
		CGACCAAAGG				
		TAACGAGGTAA				
		CAACCATGCG				
		AGTGTTGAAGT				

SRGD Performance Metrics

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

Reads Count after Overlapping:		204			
Initial Dataset Size in (Base):		301119			
Dataset Sizet after Removing Duplication:		124917			
Dataset Size after Overlapping:		57251			
Overlapping Metric	CS				
Repeat Identification Time:		00h:00m:11s:000ms			
Overlapping Time:		00h:06m:25s:000ms			
Reads Alignment Time:		00h:01m:20s:000ms			
Total Hybrid Assembly Time:		00h:07m:45s:000ms			
Repeat Annotation Time:		00h:03m:10s:000ms			
Overlapping Length	O(N)2 Time Complexity	Hit Index Count		Overlapping Matched Count	RI
250	63001	104		9	0
249	58564	83		5	0
248	56169	97		5	0
247	53824	88		8	0
245	50176	57		3	0
244	48841	91		6	0
241	46225	47		1	0
237	45796	70		2	0
236	44944	46		2	0
233	44100	82		3	0
232	42849	51		1	0
229	42436	78		1	0

228	42025	64	1	0	
226	41616	221	90	0	
219	12996	25	1	0	
201	12769	20	4	0	
194	11881	18	1	0	
189	11664	5	1	0	
184	11449	9	1	0	
180	11236	18	2	0	
176	10816	71	39	0	