

Assembly Report

Experiment Details

ExperimentID:	Experiment 80
Sequencing Coverage:	35
Number of Partitions:	5
Allowed Mismatch Count in (Base):	0
Length of Sliding Window:	61

Reads Dataset Details

Total Reads Count:	1203
Total Dataset Size in (Base):	359763
Valid Read Count:	1203
Rejected Read Count:	0
Maximum Read Length:	301
Minimum Read Length:	262

Reference Genome Details

Length of Reference Genome (Base):	10080
Number of K-mers:	9780
Length of K-mer	476

Assembly Details

Number of Contigs:	13
Contig N50:	2946
Contig N90:	2378
Number of Scaffold	1
Scaffold N50:	10080
Scaffold N90:	10080
Mis-assembly Count:	0
TotalAssembly Size:	10080

Repeat Details

Total Reads Count(Non-Repeat) :	34
Total Reads Count(Repeat):	358
Retetitive Read Count based on (Partitions Identifier):	357
Retetitive Read Count (Entire Read Frequency Identifier):	3
Retetitive Read Count (Contained Read Frequency Identifier):	3
Total Repetitive Sequences Count	10642
Total Unique Repetitive Sequences Count	4

Total Repeat Size (Base)			7706										
Starting	Ending	Repetitive Sequences	Repeat Count	Length	Positions								
1	10080	CGGTCGAAAA	3	351	<table><tr><td>Start Position</td><td>End Position</td></tr><tr><td>3561</td><td>3911</td></tr><tr><td>8386</td><td>8736</td></tr><tr><td>9149</td><td>9499</td></tr></table>	Start Position	End Position	3561	3911	8386	8736	9149	9499
		Start Position				End Position							
		3561				3911							
		8386				8736							
		9149				9499							
		ACTGCTGGCA											
		GTGGGGCATT											
		ACCTCGAATCT											
		ACCGTCGATAT											
		TGCTGAGTCC											
		ACCCGCCGTA											
		TTGCGGCAAG											
		TCGTATTCCGG											
		CTGATCACATG											
		GTGCTGATGG											
		CAGGTTTCACC											
		GCCGGTAATG											
		AAAAAGGCGA											
		ACTGGTGGTG											
		CTTGGACGCA											
		ACGGTTCCGA											
		CTACTCTGCTG											
		CGGTGCTGGC											
		TGCCTGTTTAC											
		GCGCCGATTG											
		TTGCGAGATTT											
		GGACGGACGT											
		TGACGGGGTC											
		TATACCTGCGA											
		CCCGCGTCAG											
		GTGCCCCGATG											
		CGAGGTTGTT											
		GAAGTCGATG											
		TCCTACCAGG											
		AAGCGATGGA											
GCTTTCCTACT													
TCGGCGCTCT													
AGGTCAGGCC													
A													

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

1	10080	GCGGTCGAAA	3	351	<table><tr><td>Start Position</td><td>End Position</td></tr><tr><td>3560</td><td>3910</td></tr><tr><td>5909</td><td>6259</td></tr><tr><td>9148</td><td>9498</td></tr></table>	Start Position	End Position	3560	3910	5909	6259	9148	9498
		Start Position				End Position							
		3560				3910							
		5909				6259							
		9148				9498							
		AACTGCTGGC											
		AGTGGGGCAT											
		TACCTCGAATC											
		TACCGTCGATA											
		TTGCTGAGTCC											
		ACCCGCCGTA											
		TTGCGGCAAG											
		TCGTATTCCGG											
		CTGATCACATG											
		GTGCTGATGG											
		CAGGTTTCACC											
		GCCGGTAATG											
		AAAAAGGCGA											
		ACTGGTGGTG											
		CTTGGACGCA											
ACGGTTCCGA													
CTACTCTGCTG													
CGGTGCTGGC													
TGCCTGTTTAC													
GCGCCGATTG													
TTGCGAGATTT													
GGACGGACGT													
TGACGGGGTC													
TATACCTGCGA													
CCCGCGTCAG													
GTGCCCCGATG													
CGAGGTTGTT													
GAAGTCGATG													
TCCTACCAGG													
AAGCGATGGA													
GCTTTCCTACT													
TCGGCGCTCT													
AGGTCAGGCC													

1	10080	GCTTTTCATTC TGA CTGCAAC GGGCAATATG TCTCTGTGTGG ATTAAAAAAG AGTGTCTGATA GCAGCTTCTG AACTGGTTACC TGCCGTGAGT AAATTAAAATT TTATTGACTTA GGTCACTAAAT ACTTTAACCAA TATAGGCATAG CGCACAGACA GATAAAAATTA CAGAGTACAC AACATCCATGA AACGCATTAGC ACCACCATTAC CACCACCATCA CCATTACCACA GGTAACGGTG CGGGCTGACG CGTACAGGAA ACACAGAAAAA AGCCCGCACCC TGACAGTGCG GGCTTTTTTTTT CGACCAAAGG TAACGAGGTAA CAACCATGCG AGTGTTGAAGT	8	350		
					Start Positio n	End Positio n
					1	350
					854	1203
					1295	1644
					2705	3054
					4337	4686
					6359	6708
					7574	7923
					8752	9101

SRGD Performance Metrics

Initial Reads Count:	1203
Reads Count after Removing Duplication:	392

Reads Count after Overlapping:	374
Initial Dataset Size in (Base):	359763
Dataset Siset after Removing Duplication:	150869
Dataset Size after Overlapping:	113299

Overlapping Metrics

Repeat Identification Time:	00h:00m:08s:000ms
Overlapping Time:	00h:02m:21s:000ms
Reads Alignment Time:	00h:00m:16s:000ms
Total Hybrid Assembly Time:	00h:02m:37s:000ms
Repeat Annotation Time:	00h:18m:33s:000ms

Overlapping Length	O(N)2 Time Complexity	Hit Index Count	Overlapping Matched Count	RI
276	1156	24	12	0
251	484	1	1	0
226	441	6	5	0