

# Assembly Report

## Experiment Details

ExperimentID:	Experiment 8
Sequencing Coverage:	20
Number of Partitions:	3
Allowed Mismatch Count in (Base):	0
Length of Sliding Window:	67

## Reads Dataset Details

Total Reads Count:	1054
Total Dataset Size in (Base):	211074
Valid Read Count:	1054
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	305

## Assembly Details

Number of Contigs:	21
Contig N50:	1176
Contig N90:	1076
Number of Scaffold	1
Scaffold N50:	10080
Scaffold N90:	10080
Mis-assembly Count:	0
TotalAssembly Size:	10080

## Repeat Details

Total Reads Count(Non-Repeat) :	318
Total Reads Count(Repeat):	76
Retetitive Read Count based on (Partitions Identifier):	74
Retetitive Read Count (Entire Read Frequency Identifier):	1
Retetitive Read Count (Contained Read Frequency Identifier):	1
Total Repetitive Sequences Count	929
Total Unique Repetitive Sequences Count	1

Total Repeat Size (Base)			2000			
Starting	Ending	Repetitive Sequences	Repeat Count	Length	Positions	
1	10080	GCTTTTCATTC	8	250		
		TGACTGCAAC			Start Position	End Position
		GGGCAATATG			1	250
		TCTCTGTGTGG			665	914
		ATTAAAAAAG			1200	1449
		AGTGTCTGATA			2846	3095
		GCAGCTTCTG			3826	4075
		AACTGGTTACC			6163	6412
		TGCCGTGAGT			7273	7522
		AAATTAAAATT			8425	8674
		TTATTGACTTA				
		GGTCACTAAAT				
		ACTTTAACCBA				
		TATAGGCATAG				
		CGCACAGACA				
		GATAAAAATTA				
		CAGAGTACAC				
		AACATCCATGA				
		AACGCATTAGC				
		ACCACCATTAC				
CACCACCATCA						
CCATTACCACA						
GGTAACGGTG						
CGGG						

SRGD Performance Metrics

Initial Reads Count:	1054
Reads Count after Removing Duplication:	394
Reads Count after Overlapping:	236
Initial Dataset Size in (Base):	211074

Dataset Siset after Removing Duplication:	86253
Dataset Size after Overlapping:	51391

Overlapping Metrics

Repeat Identification Time:	00h:00m:05s:000ms
Overlapping Time:	00h:05m:15s:000ms
Reads Alignment Time:	00h:00m:07s:000ms
Total Hybrid Assembly Time:	00h:05m:22s:000ms
Repeat Annotation Time:	00h:00m:52s:000ms

Overlapping Length	O(N) <sup>2</sup> Time Complexity	Hit Index Count	Overlapping Matched Count	RI
200	101124	45	1	0
197	100489	43	1	0
177	99856	37	1	0
176	99225	349	152	0
175	26569	11	1	0
151	26244	9	2	0