## Report

	Gold_Assembly	IDBA_UD	Ray	SOAPdenovo2	SPAdes
# contigs (>= 1000 bp)	522	52	0	2	79
# contigs (>= 5000 bp)	0	6	0	0	15
# contigs (>= 10000 bp)	0	2	0	0	7
# contigs (>= 25000 bp)	0	0	0	0	1
# contigs (>= 50000 bp)	0	0	0	0	0
Total length (>= 1000 bp)	712757	135801	0	2400	302281
Total length (>= 5000 bp)	0	54264	0	0	174956
Total length (>= 10000 bp)	0	28393	0	0	120547
Total length (>= 25000 bp)	0	0	0	0	34515
Total length (>= 50000 bp)	0	0	0	0	0
# contigs	2251	479	1	29	658
Largest contig	3535	17153	564	1333	34515
Total length	1913455	408856	564	18341	667514
Reference length	4628173	4628173	4628173	4628173	4628173
GC (%)	69.31	68.11	64.54	66.69	68.22
Reference GC (%)	68.77	68.77	68.77	68.77	68.77
N50	861	753	564	570	850
N75	661	586	564	527	606
L50	785	133	1	12	114
L75	1420	291	1	21	354
# misassemblies	7	8	0	1	4
# misassembled contigs	6	8	0	1	4
Misassembled contigs length	8046	7457	0	1333	4024
# local misassemblies	4	1	0	0	0
# structural variations	0	0	0	0	0
# unaligned contigs	0 + 35 part	0 + 87 part	0 + 0 part	0 + 1 part	0 + 142 part
Unaligned length	8385	118167	0	723	284666
Genome fraction (%)	40.755	6.269	0.012	0.376	8.240
Duplication ratio	1.010	1.002	1.000	1.012	1.004
# N's per 100 kbp	0.00	0.00	0.00	81.78	0.00
# mismatches per 100 kbp	1553.97	1868.66	0.00	1499.57	2533.85
# indels per 100 kbp	28.42	42.39	0.00	34.47	32.52
Largest alignment	3535	2198	564	1067	1594
NA50	856	560	564	545	506
NGA50	-	1	-	-	-
NA75	657	i	564	526	-
LA50	791	287	1	14	515
LA75	1431	-	1	22	-

All statistics are based on contigs of size >= 500 bp, unless otherwise noted (e.g., "# contigs (>= 0 bp)" and "Total length (>= 0 bp)" include all contigs).

## Misassemblies report

	Gold_Assembly	IDBA_UD	Ray	SOAPdenovo2	SPAdes
# misassemblies	7	8	0	1	4
# relocations	2	4	0	0	1
# translocations	5	3	0	1	3
# inversions	0	1	0	0	0
# possibly misassembled contigs	2	6	0	0	6
# misassembled contigs	6	8	0	1	4
Misassembled contigs length	8046	7457	0	1333	4024
# local misassemblies	4	1	0	0	0
# structural variations	0	0	0	0	0
# mismatches	29311	5422	0	261	9663
# indels	536	123	0	6	124
# short indels	488	115	0	4	118
# long indels	48	8	0	2	6
Indels length	1246	240	0	28	220

All statistics are based on contigs of size >= 500 bp, unless otherwise noted (e.g., "# contigs (>= 0 bp)" and "Total length (>= 0 bp)" include all contigs).

## Unaligned report

	Gold_Assembly	IDBA_UD	Ray	SOAPdenovo2	SPAdes
# fully unaligned contigs	0	0	0	0	0
Fully unaligned length	0	0	0	0	0
# partially unaligned contigs	35	87	0	1	142
# with misassembly	0	1	0	0	1
# both parts are significant	0	6	0	0	5
Partially unaligned length	8385	118167	0	723	284666
# N's	0	0	0	15	0

All statistics are based on contigs of size >= 500 bp, unless otherwise noted (e.g., "# contigs (>= 0 bp)" and "Total length (>= 0 bp)" include all contigs).



















