

Table S1. Statistics of raw genomic reads used in the assembly process

| Measurement | Value | Ideal Value [†] |
|--|----------|--------------------------|
| Number of reads | 944.31 M | - |
| Read length | 150 bp | - |
| Mean read length after trimming | 138.5 b | 140 b |
| Raw coverage | 69.38 x | ~56 x |
| Effective read coverage | 42.19 x | ~42x for raw 56x |
| Fraction of Q30 bases in read 2 | 76.81 % | 75-85% |
| Median insert size | 361 b | 350-400 b |
| Fraction of proper read pairs | 87.93% | >=75% |
| Fraction of barcodes used | 1 | - |
| Estimated genome size | 2.04 Gb | - |
| Genome repetitivity index | 15.49% | - |
| High AT index | 0.07% | - |
| Dinucleotide content | 0.44% | - |
| Molecule count extending 10 kb on both sides | 17.06 | 10 kb |
| Mean distance between heterozygous SNPs | 1.72 Kb | - |
| Fraction of reads that are not barcoded | 6.31% | - |
| N50 reads per barcode | 744 | - |
| Fraction of reads that are duplicates | 28.48% | - |
| Nonduplicate and phased reads | 37.83% | 45-50% |

[†]the ideal statistics are define by Supernova ¹.

References

- 1 Weisenfeld, N. I., Kumar, V., Shah, P., Church, D. M. & Jaffe, D. B. Direct determination of diploid genome sequences. *Genome Res* 27, 757-767, doi:10.1101/gr.214874.116 (2017).