Supplemental Table S2. Illumina *k*-mer frequency cut-offs used to produce the valid *k*-mer lists.

Organism	Strain	Genome size (Mbp)	Quality cut-off	Illumina raw coverage *	Illumina net coverage†	Low freq. cut-off ‡	High freq. cut-off §
E. coli	K-12 MG1655	4.64	Q0	77	70	10	105
S. cerevisae	W303	12.1	Q20	232	189	27	280
C. elegans	Bristol N2	103	Q20	800	586	100	863
Drosophila	ISO1	180	Q10	77 ¶	46 (XY) 93 (autosomes)	13	150
Arabidopsis	Ler-0 (PacBio) Ler-1, Ler-0 (Illumina)	135	Q0	106	40	6	60
H. sapiens	GIAB HG002	3,000	Q0	278	144 (XY) 262 (autosomes)	76	393

* Calculated as Total k-mers / genome size. This value is larger than the net coverage because it includes the error k-mers. The accession numbers of the reads are in Supplemental Table S12.

[†] Calculated as peak of single-copy *k*-mer freq. *Drosophila* and human data came from the heterogametic sex, and in these cases the sex chromosomes form a separate peak, with half of the autosomal coverage.

‡ Intended to remove error k-mers. Set to approximately one seventh of the net coverage (single-copy peak)

§ Intended to remove *k*-mers with more than one copy in the genome. Set to approximately 1.5 fold the net coverage (single-copy peak).

¶ This value is the composite of two distributions: autosomes and sex-chromosomes (see Supplemental Fig. S5).