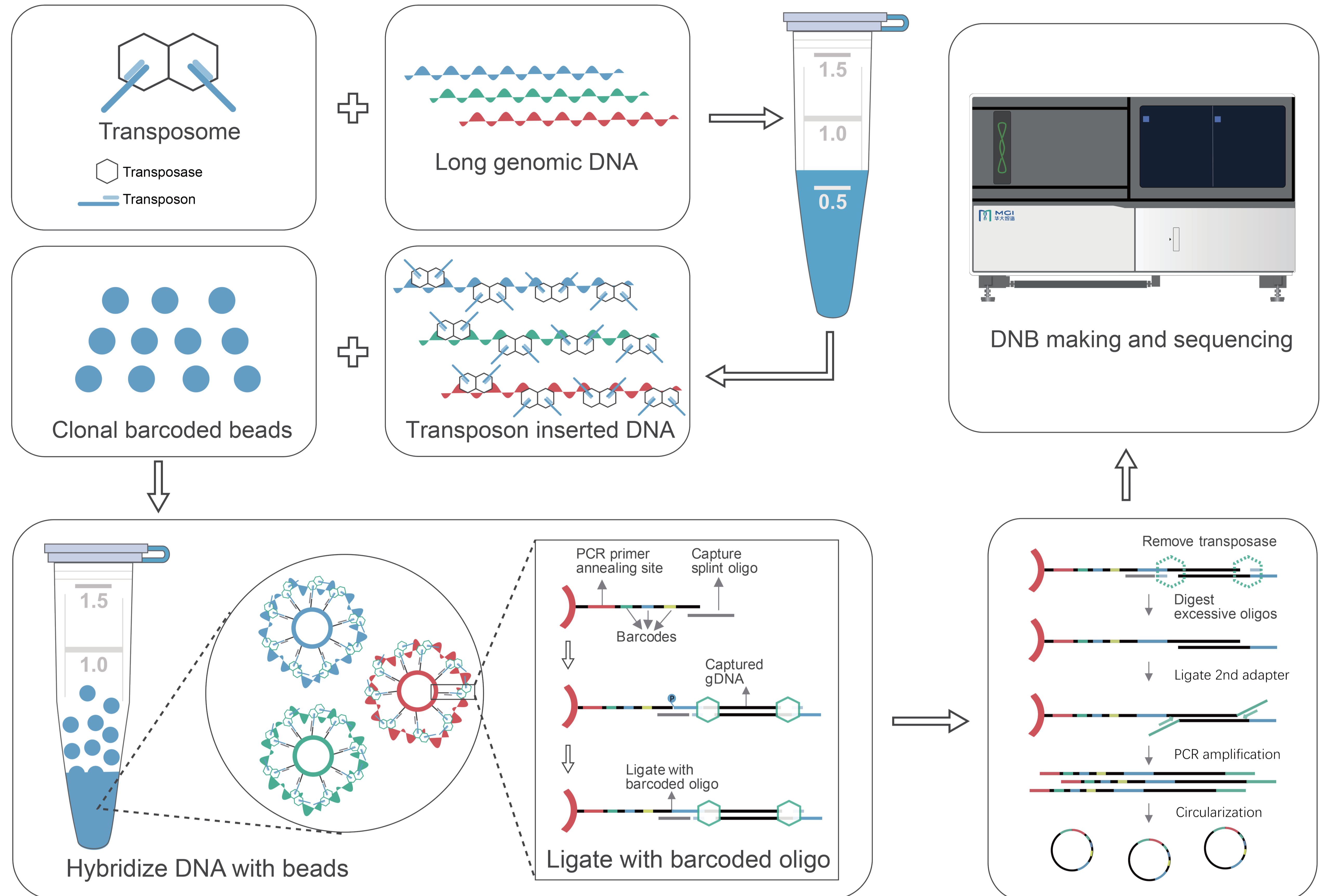


stLFR Efficient Long Single Molecule sequencing by NGS

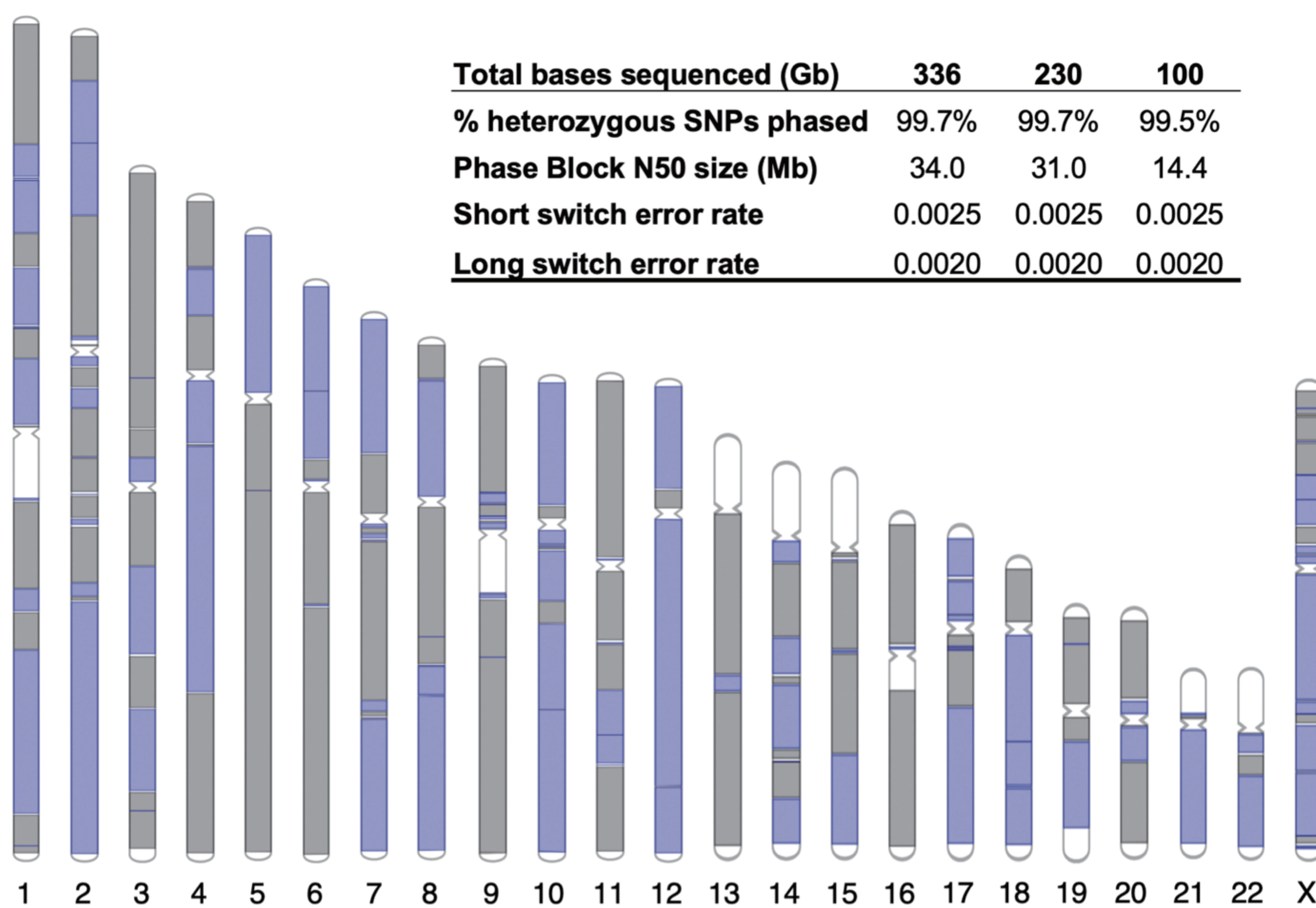
single-tube long fragment read (stLFR) technology can generate short reads and long reads in one library in a single NGS run to deliver an even more perfect WGS.



Highlights

- cost effective expansion of NGS applications
- industry record #of barcodes per genome
- accurate fetus WGS for NIPT- *de novo* WGS for all species
- full length DNA, HIV, mitochondria

stLFR haplotype phased performance



The 221 phased blocks from the stLFR-1 library are depicted on chromosomes as alternating colors of grey and purple. Unphased regions are depicted in white. The inset table shows the performance of phasing with different sequence read coverage levels.

The scaffolds from the *de novo* assemblies of stLFR were compared against chromosomes from GRCh38 using dot plots.

<https://www.biorxiv.org/cotent/ealy/2018/05/17/324392>

