

Generate a
sequencing library



in just **3** hours

TELL-Seq™

Transposase Enzyme Linked Long-read Sequencing

Transposase Enzyme Linked Long-read Sequencing is a simple and scalable NGS library technology that generates barcoded linked reads for genome scale sequencing applications. The whole barcoding procedure can be carried out in a PCR tube without the need for expensive instrumentation

TELL-Seq Library Prep kit

- One tube process, simple, fast and economic.
- Enable a short-read sequencer to produce super long-read results, average 20kb to 200kb, or longer
- Require ultra low DNA input, 3-5ng for human genome, 0.1-0.5ng for microbial genomes and target sequencing panels



TELL-Seq library

Illumina short-read

TELL-Seq applications:

- ✓ De novo Sequencing (small and large genomes)
- ✓ Microbiology and metagenomics
- ✓ Whole human genome phasing
- ✓ Whole exome and target phasing
- ✓ Structure variation detection



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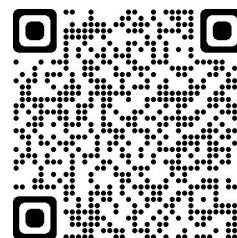
we offer a
full product
guarantee



outstanding
technical
support

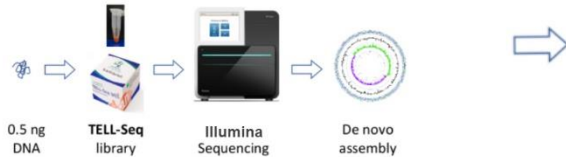


find out more:



Microbial de novo Assembly

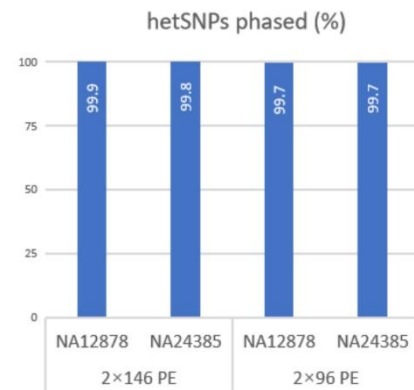
Turn 0.5 ng Microbial DNA Into an Accurate Genome



<i>E. coli</i> MG1655	TELL-seq
Genome fraction (%)	99.92
Largest alignment	4,630,233
Total aligned length	4,684,057
NA50	4,630,233
# misassemblies	0
# mismatches per 100 kbp	3.15
# indels per 100 kbp	0.34
# N's per 100 kbp	0

Human Genome Phasing Application

Method	TELL-Seq			
	NA12878		NA24385	
Coverage Depth (Unique)	38x	25x	46x	28x
Longest Phased Block	67.5 Mb	39.9 Mb	59.2 Mb	35.0 Mb
N50 Phased Block	14.4 Mb	8.0 Mb	13.4 Mb	9.4 Mb
Switch Error Rate	0.04%	0.05%	0.08%	0.12%



Metagenomics

Metagenomic de novo Assembly and Taxonomic Analysis & Quantification

