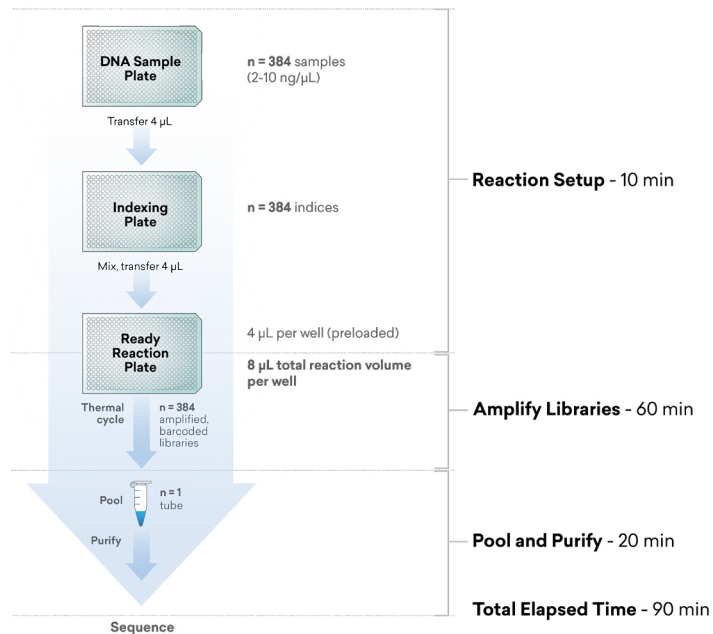


# ExpressPlex™ HT Library Prep Kit

Accelerate your Design-Build-Test-Learn Cycle with ExpressPlex HT<sup>†</sup>, the only library prep in 384-well plates with no upfront aliquoting or plate stamping. Designed for the ultimate in high-throughput library prep for plasmid and synthetic construct sequencing, ExpressPlex HT offers greater efficiency and multiplexing capabilities than any other method.

- Up to 6,144 barcodes available (combined dual indices)
- Everything included: no complex supply chain management of barcodes and primers
- Ready to go: no dispensing of reagents. Just add your DNA
- Reduce sequencing costs to the lowest possible overall price per sample



## Benefits of Using ExpressPlex HT

The simplicity of the ExpressPlex workflow makes it uniquely well-suited for automated, ultra-high throughput library prep from plasmids and synthetic constructs. Spend your time on data and results, not pipetting!

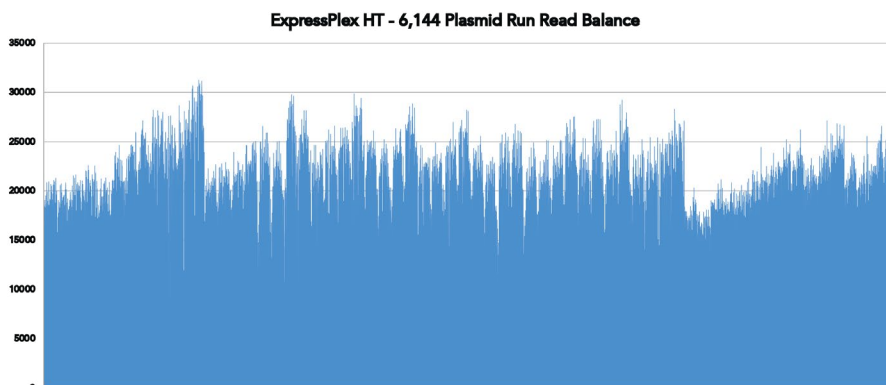
### ExpressPlex HT users can:

- Maximize deck-space usage via pre-arrayed 384-well plates
- Easily integrate the protocol with your automation platform of choice
- Multiplex up to 6,144 samples in a single run
- Eliminate the need for aliquoting of reagents and oligo inventory management
- Reduce tips/plastics use by up to 90%



## Massive Multiplexing + Normalization = Less Effort to Run Your Samples

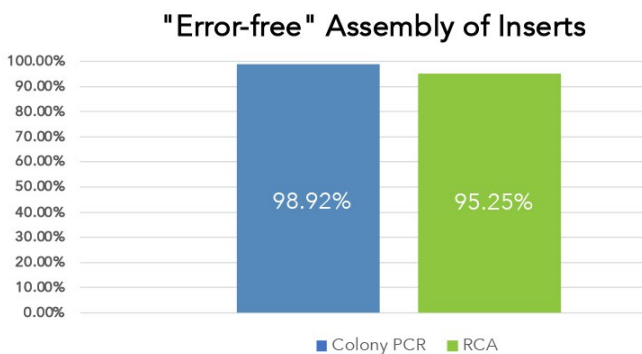
The ExpressPlex HT kit combines the largest ready-made CDI barcode set with a built-in read depth normalization feature, enabling greater capacity and consistent read depths across all samples.



The ExpressPlex HT kit was used to prepare fixed input (8ng) libraries for 6,144 total pUC19 samples across 16 separate 384-well plates. All samples were pooled into a single run on a NextSeq™ 2000 sequencer (P1 300 cycle @ 2x150). Library preparation was performed on either a Tecan Freedom Evo® or SPT apricot. As shown above, even when multiplexing 6,144 samples, ExpressPlex HT provides consistent read depths sufficient for easy assembly of plasmid samples.

## Skip Plasmid Prep for Faster Workflow

ExpressPlex HT is compatible with plasmid DNA prepared by rolling circle amplification (RCA) or direct colony PCR.



384 plasmids, ranging in size from 4 to 8kb, were picked from agar plates and amplified directly from colony lysates using RCA (EquiPhi29™ DNA Polymerase, Thermo Fisher), or colony PCR (KOD One™, Toyobo). 384-plex libraries were prepared from unpurified RCA and colony PCR reactions using ExpressPlex HT kits on the apricot S3 Liquid Handler (SPT Labtech). Sequencing was conducted on the MiSeq™ sequencing platform on a Micro v2 kit (384 samples per run).

## Interested in ExpressPlex HT? Contact seqWell today!



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