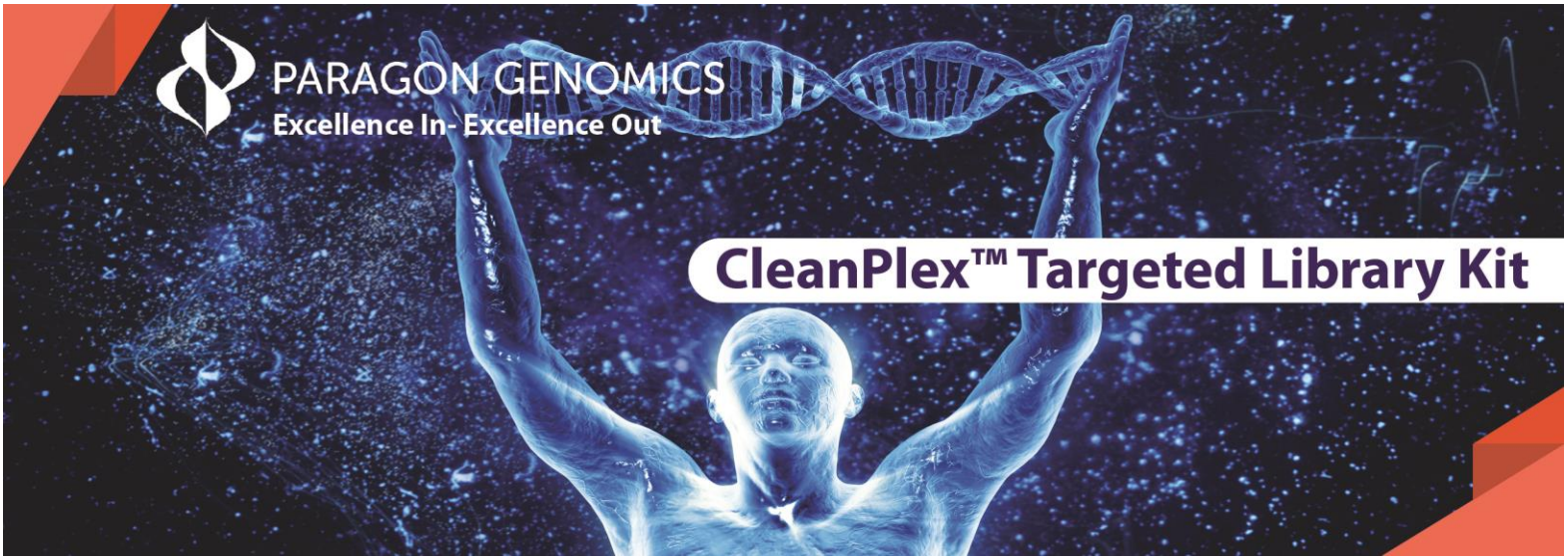


CleanPlex™ Targeted Library Kit

Simplify your Next-Generation Sequencing (NGS) target enrichment workflow to increase coverage uniformity and on-target reads to more than 98%. The CleanPlex™ Targeted Library Kit uses a multiplex PCR-based workflow which reduces targeted library prep time from over 36 hours to only 2.5 hours while removing up to 99% of non-specific PCR products. CleanPlex™ is currently compatible with Illumina® sequencers but will soon support Ion Torrent sequencers.

Be sequence-ready in 2.5 hours

CleanPlex™ Targeted Library Kits simplify the complex NGS target enrichment process into a simple, 2.5-hour process with only 30 minutes of hands-on time. CleanPlex™ Targeted Library Kits:

- Eliminate variability of traditional hybrid capture-based steps
- Accelerate DNA sequencing by 2 days
- Remove DNA fragmentation, ligation, hybridization and chemical modification of primers.

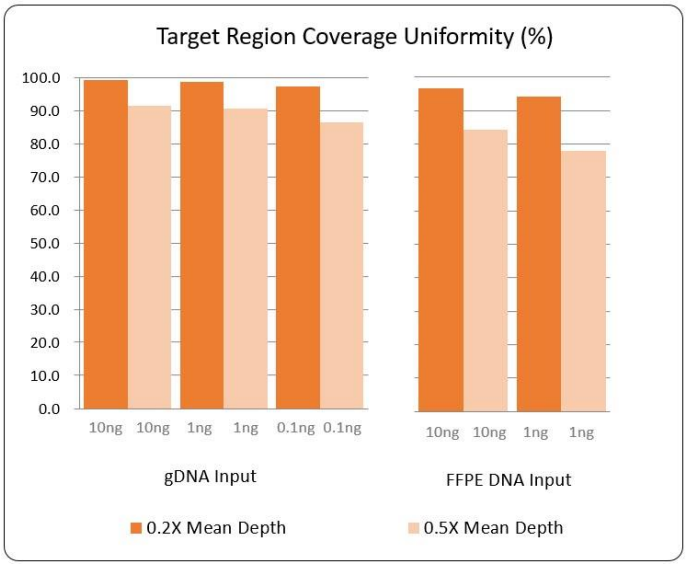
Maximize your enrichment

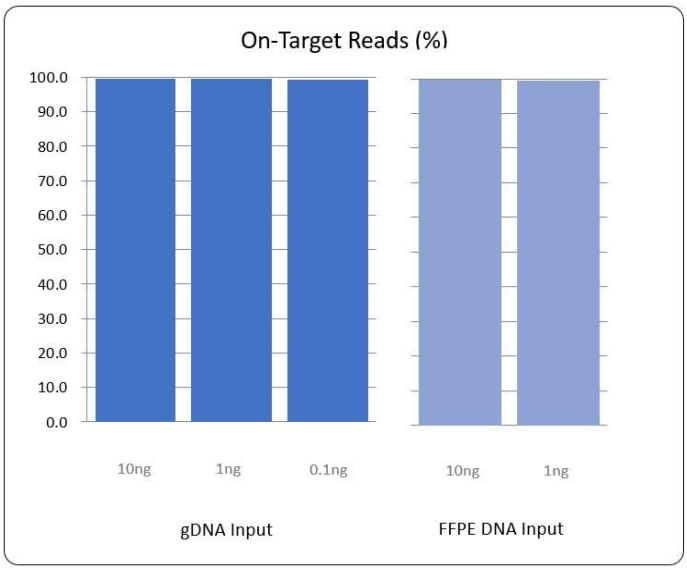
The CleanPlex™ Targeted Library Kit multiplex PCR buffer system has been optimized for:

- Coverage uniformity
- PCR specificity
- Sensitivity
- Target region yield

This results in better NGS data than other methods with >98% coverage uniformity and >98% on-target reads while minimizing GC bias and PCR error rates. Obtain more effective sequencing reads on hard-to-amplify genes or loci and view new ones previously undetected.

CleanPlex™ Technical Data





* data based on a multiplex PCR panel with 600 primer pairs. Mean amplicon coverage is between 2000-2500X.

Find low-frequency alleles by reducing PCR backgrounds

The CleanPlex™ multiplex PCR process uses a unique background cleaning technology that removes up to 99% of the non-specific PCR products which cause high backgrounds in NGS sequencing. The reduction in background noise increases variant calling accuracy enabling the detection of mutations with a frequency as low as 0.5% that might have previously been missed.

Run precious samples

CleanPlex™ Targeted Library Kits require only 100 pg - 10 ng of DNA making it much easier to enrich DNA-limited samples like FFPE, cfDNA, FNA and liquid biopsy.

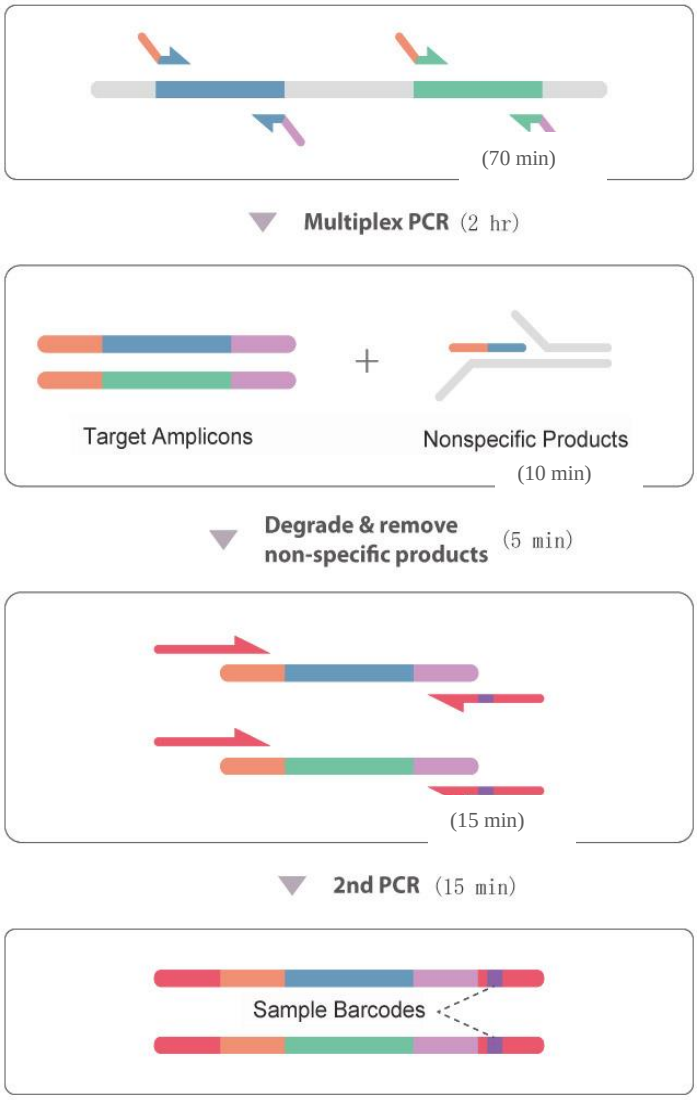
Take on difficult applications

Tackle difficult applications such as detecting TERT promoter mutations in human cancers and develop new applications which were otherwise impossible.

Simplify your workflow

The CleanPlex™ Targeted Library Kit workflow easily integrates into current liquid handling and automation routines. All PCR, bead purification and background cleaning reactions happen in a single tube. By using sample barcodes during the second PCR, 384 samples can be sequenced simultaneously. Scale up or down from 7 - 4,000 PCR reactions per tube.

CleanPlex™ targeted library prep workflow



Ordering information	
Product Name	**Sku**
CleanPlex™ Targeted Library Kit (8 rxns)	816001
CleanPlex™ Targeted Library Kit (96 rxns)	816002
CleanPlex™ Targeted Library Kit (384 rxns)	816003

PARAGON GENOMICS
385 Oyster Point Blvd Ste 5-6 | South San Francisco, California 94080 415-545-8783 | sales@paragongenomics.com