

Solid Tumor 22 Gene Panel

The **oncoReveal™ Solid Tumor 22 Gene Panel** is a robust NGS assay that interrogates 22 genes of interest* relevant to lung and colon cancer. This panel is optimized for use on the Beckman Coulter Biomek NGeniusS Next Generation Library Prep System, a purpose-built liquid handler for NGS library preparation. The panel uses proprietary Stem-Loop Inhibition-Mediated amplification (SLIMamp®) technology, a tiled amplicon-based library prep chemistry for efficient single-tube target enrichment.

oncoReveal™ Solid Tumor 22 Gene Panel

| | | | | |
|--------|-------|--------|--------|-------|
| AKT1 | EGFR | FGFR2 | NOTCH1 | STK11 |
| ALK | ERBB2 | FGFR3 | NRAS | TP53 |
| BRAF | ERBB4 | KRAS | PIK3CA | |
| CTNNB1 | FBXW7 | MAP2K1 | PTEN | |
| DDR2 | FGFR1 | MET | SMAD4 | |

Simple NGS library prep workflow

Maintain control of samples and results with single-tube, tiled amplification that can be performed in-house by any NGS lab

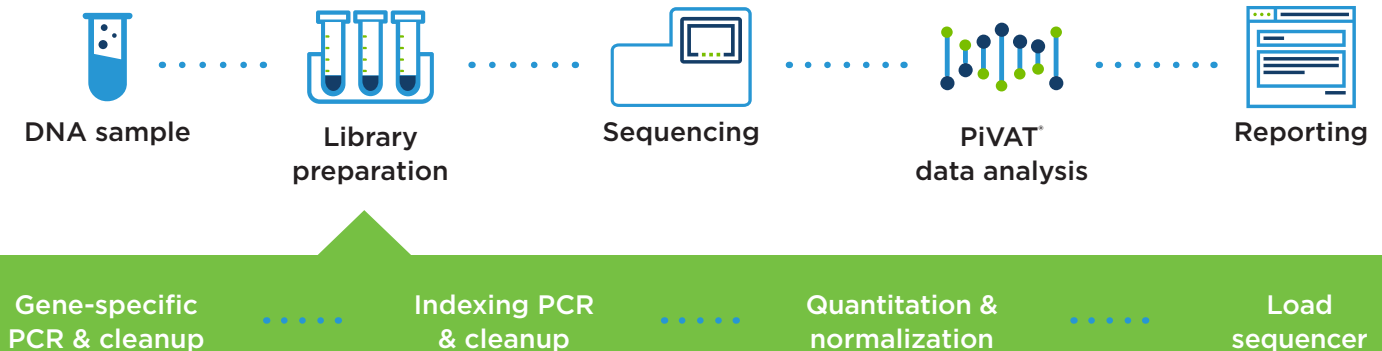
Sensitive and robust chemistry

Achieve variant detection as low as 1% VAF† even with limited DNA input or poor sample quality

Reduced fully-loaded lab costs

Improve lab efficiency and reduce “no calls”, repeat testing, and difficult interpretation decisions

Simple, one-day workflow



Panel specifications*

| | |
|---|--|
| Enrichment chemistry | Multiplex PCR using tiled amplicons |
| Number of pools | 1 pool |
| Number of genes/amplicons | 22/103 |
| Number of targets | >1,800 hotspots in 22 genes; 10.3kb total size |
| Variant types | SNVs, indels |
| Average amplicon size | 147bp |
| Recommended DNA input range | 10ng to 80ng |
| Sample types | DNA from tissue, blood, or FFPE |
| Mapping rate | 97.4% ± 2.5% |
| % on-target aligned reads | 96.8% ± 1.3% |
| Coverage uniformity (% targets with >0.2X mean coverage) | 99.8% ± 0.7% |
| Recommended reads per sample | ~415,000 paired-end reads |
| Total assay time (from DNA to sequencer) | <8 hours |

* Mapping rate, percentage of on-target aligned reads, and coverage uniformity metrics are based on internal testing performed using reference standard materials

Ordering information

Select the panel AND one of the index kit options listed below.

| Panel | Part number |
|--|----------------|
| oncoReveal™ Solid tumor 22 Gene Panel (24 reactions) | HDA-ST-1001-24 |

| Pillar Index Kit options | Reactions | Part number |
|---------------------------------|-------------------------------|----------------|
| Pillar TSCA Index Primers Kit A | 32 Combinations, 96 reactions | IDX-AI-1001-96 |

TO ORDER OR LEARN MORE:
pillarbiosci.com

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