

### **TP53 Panel**

The **oncoReveal® TP53 Panel** is a robust NGS assay designed to detect somatic mutations within the entire coding region of the tumor suppressor gene, TP53. The panel uses proprietary Stem-Loop Inhibition-Mediated amplification (SLIMamp®) technology, a tiled amplicon-based library prep chemistry, designed by Pillar's Al-empowered VersaTile™ Primer Design tool, for efficient single-tube target enrichment.

#### Panel specifications\*

| •   |  |
|---|--|
| Enrichment chemistry  | Multiplex PCR using tiled amplicons                                    |
| Number of pools   | 1 pool   |
| Number of genes/amplicons                                   | 1/19   |
| Number of targets   | Full CDS of TP53 plus 10bp of flanking introns; 1.9kb total panel size |
| Variant types   | SNVs, small and medium indels  |
| Average amplicon size                                       | 155bp  |
| DNA input range   | 20ng to 80ng   |
| Sample types  | DNA from tissue or FFPE  |
| Mapping rate  | 95.9% ± 2.1%   |
| % on-target aligned reads                                   | 94.0% ± 3.3%   |
| Coverage uniformity<br>(% targets with >0.2X mean coverage) | 100%   |
| Recommended reads per sample                                | ~95,000 paired-end reads   |
| Total assay time (from DNA to sequencer)                    | <8 hours   |
|   |  |

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

## 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<sup>+</sup> even with limited DNA input or poor sample quality

#### Reduced fullyloaded lab costs

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

#### Simple, one-day workflow



Gene-specific PCR & cleanup

Indexing PCR & cleanup

Quantitation & normalization

Load sequencer

#### **Ordering information**

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

| Panel                                 | Part number    |
|---------------------------------------|----------------|
| oncoReveal® TP53 Panel (24 reactions) | HDA-TP-1002-24 |

| Pillar Index Kit options          | Reactions                      | Part number     |
|-----------------------------------|--------------------------------|-----------------|
| Pillar Custom Index Primers Kit A | 32 Combinations, 96 reactions  | IDX-PI-1001-96  |
| Pillar Custom Index Primers Kit D | 96 Combinations, 192 reactions | IDX-PI-1004-192 |

# TO ORDER OR LEARN MORE: pillarbiosci.com



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