



Pillar® INHERIT/Reveal™ CFTR Panel

The INHERIT/Reveal CFTR Panel covers the entire CDS of the cystic fibrosis transmembrane conductance regulator (CFTR) gene and can multiplex up to 384 samples on a MiSeq with 2x250 PE reads. The panel uses proprietary Stem-Loop Inhibition-Mediated amplification (SLIMamp®) technology for efficient single-tube target enrichment.

Panel attributes

Enrichment chemistry	Multiplex PCR using tiled amplicons
Number of pools	1 pool
Number of genes/amplicons	1/34
Number of targets	Full CDS + 10bp flanking introns and intron 12/22
Variant types	SNVs, indels, 3 large deletions (10kb - 21kb)
Average amplicon size	361bp (324bp - 405bp range)
Input DNA range	5ng to 500ng
Sample types	Genomic DNA
Mapping rate	99.8% ± 0.2%
% on-target aligned reads	99.9% ± 0.1%
Coverage uniformity (% targets with >0.2X mean coverage)	100%
Total assay time (from DNA to sequencer)	<8 hours
Sequencing platforms	Illumina®

Simple NGS library prep workflow

Maintain control of your 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[†] without UID[‡]s even with limited DNA input or poor sample quality

Reduced fully-loaded costs

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

[†] VAF, variant allele frequency

[‡] UID, unique ID; also known as unique molecular ID (UMI)

Simple, one-day workflow



Gene-specific
PCR & cleanup

Indexing PCR
& cleanup

Quantitation &
normalization

Load
sequencer

Ordering information

Select the panel below AND the index kit listed below.

Panel	Part number
INHERIT/Reveal CFTR Panel	HDA-CF-1001-24

Nextera Index Kit options

Talk to your Pillar sales rep

Visit pillar-biosciences.com to see
variants detected by this panel.

Order or learn more at
pillar-biosciences.com

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