

# HRD & HRR Panel

iGeneTech Bioscience Co., Ltd.



## PRODUCT OVERVIEW

## ADVANTAGES

The HRD detection product was designed on the basis of population genetic background. Self-developed HRD Score model reflects the HRD status objectively.

**Two Results in One Test:**  
HRD & HRR co-detection kit, optimize the regional depth ratio on a single test to save the sequencing data volume

### Flexible customization:

Sites can be added or removed according to customer needs, and the HRD panel can also be combined with any CDS Panel.

### Wide population for applications:

Patients with solid tumors such as newly diagnosed or recurrent breast cancer, ovarian cancer, prostate cancer, pancreatic cancer, and bladder cancer etc.

Product name	HRR Panel	HRD Panel	HRD & HRR Panel V2
Target/Coverage size	177.9 kb	4.0 Mb	4.2 Mb
Coverage	39 core genes in the HRR pathway, including BRCA1/2.	37,000 SNP locus within whole genome.	Cover the core genes of HRR pathway and SNP loci across whole genome.
Detection	SNV、InDel	LOH、TAI、LST	SNV、InDel; LOH、TAI、LST
Sequencing Volume	0.5 Gb/1000×	6 Gb/500×	4 Gb/HRR 1200×; HRD 300×
Applications	Detection of HRR pathway gene mutations (BRCA1/2,etc.)	HRD Score	Two results in one test (HRD and HRR)

## PERFORMANCE

### -Excellent Capture Performance

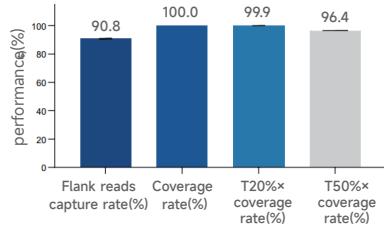


Figure 1. Capture performance of HRR Panel

Use gDNA reference standard, matched with TargetSeq One® Hyb & Wash Kit v3.0, sequencing by Illumina NovaSeq 6000 PE150.

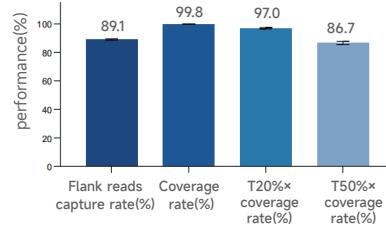


Figure 2. Capture performance of HRD Panel

Use gDNA reference standard, matched with TargetSeq One® Hyb & Wash Kit v3.0, sequencing by Illumina NovaSeq 6000 PE150.

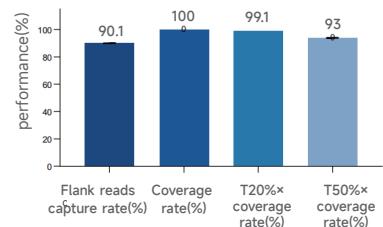


Figure 3. Capture performance of HRD & HRR Panel

Use gDNA reference standard, matched with TargetSeq One® Hyb & Wash Kit v3.0, sequencing by Illumina NovaSeq 6000 PE150.

Sample	LOH	TAI	LST	HRD-sum	Result(>43)
Positive-High Ref	18	32	40	90	/
HRD-P9-T-Repeat 1	17	23	26	66	HRD-H
HRD-P9-T-Repeat 2	18	24	31	73	HRD-H
Negative-Low Ref	5	10	10	25	/
HRD-P13-T-Repeat 1	5	12	10	27	HRD-L
HRD-P13-T-Repeat 2	5	11	10	26	HRD-L
Critical Value-Median Ref	16	20	9	45	/
HRD-P15-T-Repeat 1	18	19	13	50	HRD-H
HRD-P15-T-Repeat 2	16	21	15	52	HRD-H

## GENE LIST CDS region of 39 core genes on HRR pathway

ABRAXASI	ATM	ATR	BARD1	BLM	BRCA1	BRCA2	BRIP1	CDK12	CHEK1
CHEK2	EMSY	FANCA	FANCC	FANCD2	FANCE	FANCF	FANC1	FANCL	FANCM
MDC1	MRE11	NBN	PALB2	PPP2R2A	PTEN	RAD50	RAD51	RAD51B	RAD51C
RAD51D	RAD52	RAD54L	RBBP8	RPA1	SLX4	TP53	WRN	XRCC2	

## PRODUCT INFORMATION

Product Name	Spec.	Cat.
HRD Panel	24/96 rxn	PH2000975/PH2000972
HRR Panel	24/96 rxn	PH2003715/PH2003712
HRD & HRR Panel V2	24/96 rxn	PH2003805/PH2003802
TargetSeq One® Hyb & Wash Kit v3.0*	24/96 rxn	C11534/C11532
TargetSeq® Eco Universal Blocking Oligo*	24/96 rxn	C80504/C80502
TargetSeq® Cap Beads & Nuclease-Free Water*	5 mL each	C10422

## Accuracy of HRD Score

Table 1. Testing results of HRD reference standard

Note: Use 3 groups of Cobio HRD standard product (HRD-P9, HRD-P13, HRD-P15) for testing, combining the HRD analysis process and threshold value of iGeneTech, calculate the HRD score and determine the HRD status.

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