xCapSeq™ 120 hotspot Panel USAGE

Component

CatLog：HC005　　Specification:12 rxns / 96 rxns

Component	12 rxns（HC005-012）	96 rxns（HC005-096）
○ xCap 120 Hotspot Panel	24 μL	192 μL

Storage and Delivery

-30 ~ -15 ℃ Storage，≤ 0 ℃ delivery.

Introduction

The product integrates FDA, NMPA, NCCN guidelines and expert consultation, analyzes the genes of drug targets for 12 cancer types, and selects 120 genes and related loci for the overall evaluation of targeted therapy, chemotherapy and immunotherapy. The product is based on two rounds of error correction and noise reduction algorithms of UMI molecular tags, the lower limit of mutation frequency detection is as low as 1 %, and the number of false-positive mutations is significantly reduced. Through the patented single independent DNA synthesis method and purification process, the quality and concentration of each probe is precisely controlled, so that the product shows good Panel performance: homogeneity > 99 %, capture efficiency > 50 %, and coverage of 100 % in 12 ~ 16 plex.

Scope of application

This product is DNA probe and suitable for DNA hybridization capture system.

Experiment Procedure

1. Please refer to the "xCapSeq™ DNA Hyb&Washing Buffer Kit" for the preparation, precautions and hybridization procedure. xCapSeq™ hybridization system is recommended.
2. Place the probe on ice to melt naturally and mix thoroughly before use. Add the reagents to the hybridization system according to the reaction system listed in the table below for a total hybridization volume of 16 μL.

Component	Volume (μL)
xCap 2×Hyb Buffer*	8
xCap Enhancer Buffer*	3
Probe (xCap 120 Hotspot Panel)	2
Nuclease-FreeWater	3
Total Volume	16

* xCap 2× Hyb Buffer and xCap Enhancer Buffer are the reagent of xCapSeq™ DNA Hyb & Washing Buffer Kit （WisGen#HC001）, Requires additional purchase.