xCapSeq™ PanCancer 160 Panel USAGE

Component

CatLog：HC002　　Specification: 12 rxns / 96 rxns

Component	12 rxns（HC002-012）	96 rxns（HC002-096）
○ xCap PC 160 Panel	24 μL	192 μL

Storage and Delivery

-30 ~ -15 ℃ storage，≤ 0 ℃ delivery.

Introduction

This product integrates TCGA and ICGC databases to analyze common mutated genes in 12 cancer types, covering a total of 160 genes and related loci for overall assessment of targeted therapy, immunotherapy, chemotherapy use and hereditary tumors. Two rounds of error correction and noise reduction algorithms based on UMI molecular tags, the lower limit of mutation frequency detection is as low as 1 %, and false-positive mutations are significantly reduced. Through the patented single independent DNA synthesis method and purification process, the quality and concentration of each probe is precisely controlled, resulting in a product that exhibits excellent panel performance: homogeneity > 99 %, capture efficiency > 70 %, and coverage > 99.5 % 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 PC 160 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.