

# xCapSeq™ Human mtDNA Panel USAGE

## Component

CatLog: HC014      Specification: 12 rxns / 96 rxns

Component	12 rxns (HC003-012)	96 rxns (HC003-096)
● xCap Human mtDNA Panel	24 μL	192 μL

## Storage and Delivery

-30 ~ -15 °C Storage, ≤ 0 °C Delivery

## Introduction

Human Mitochondrial Panel is a mitochondria-targeted sequencing solution from WisGen xCapSeq's platform. By targeted mitochondrial DNA (mtDNA) and then performing high-throughput sequencing, the 16.5Kb mitochondrial genome can be completely detected. By investigating the mitochondria-associated characteristics of maternal inheritance, multi-copy, high heterogeneity and high mutation rate, we can reveal the pathogenic mechanism of mitochondrial DNA variation, including but not limited to degenerative diseases, metabolic disorders, hereditary diseases, and tumors.

## 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  $\mu$ L.

Component	Volume ( $\mu$ L)
● xCap 2 $\times$ Hyb Buffer*	8
● xCap Enhancer Buffer*	3
● Probe (xCap Human mtDNA Panel)	2
Nuclease-FreeWater	3
<b>Total Volume</b>	<b>16</b>

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