



Human FGFR1/2/3 Gene Fusions Detection Kit (Next Generation Sequencing)

FGFR GENE FUSION

FGFR is the fibroblast growth factor receptor (Fibroblast Growth Factor Receptor). The FGFR family mainly includes four subtypes, FGFR1, FGFR2, FGFR3 and FGFR4. It is part of the tyrosine kinase signaling pathway responsible for cell proliferation and differentiation. There are currently several FGFR inhibitors in clinical trials or approval stages, among which Pemigatinib and Infigratinib have been approved by the US Food and Drug Administration (FDA). Pemigatinib is a selective competitive inhibitor of FGFR1, FGFR2 and FGFR3, the treatment response rate for patients with locally advanced or metastatic cholangiocarcinoma with FGFR2 fusion or rearrangement is as high as 35.5%. Therefore, detection of FGFR1/2/3 fusion genes in patients with cholangiocarcinoma to guide targeted therapy can further improve the survival of patients .

DETECTED GENES

Detected Genes	Partner Gene	Fusion Type
FGFR1	PLAG1、FGFR1OP etc	29
FGFR2	AHCYL1、BICC1 etc	18
FGFR3	TACC3	36
Internal control gene	/	6

PRODUCT INFORMATION

Product Name	Core Technology	Pack Size	Instruments Validated	Sample Type
Choycan™ Human FGFR1/2/3 Gene Fusions Detection Kit	RingCap®	16 Tests/Kit 32 Tests/Kit	Ion torrent Illumina MGISEQ	Fresh tissue FFPE

DETECTION SIGNIFICANCE

The detection of FGFR gene in patients with cholangiocarcinoma, to select appropriate targeted drugs for the patients based on the gene variation information, so as to improve the pertinence and effectiveness of treatment, realize individualized treatment.

ELIGIBLE POPULATION

Patients with cholangiocarcinoma



FEATURES & ADVANTAGES

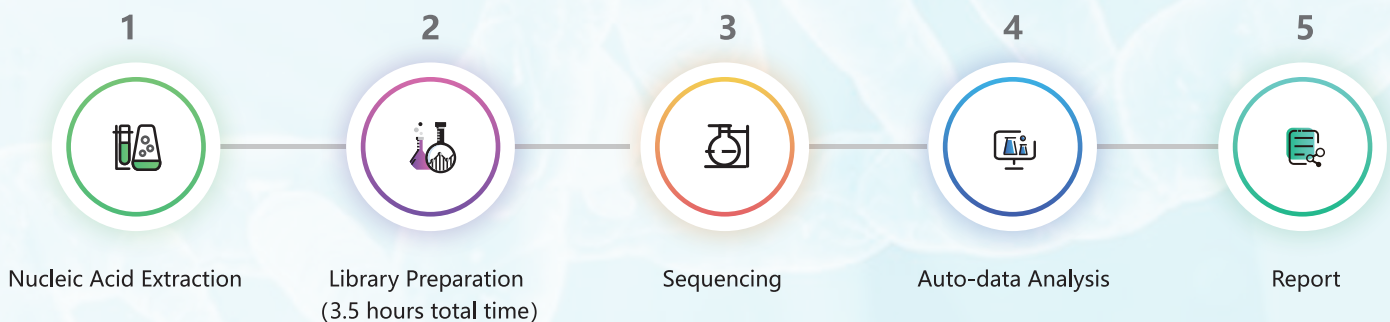
Ease of Use: Based on the independent patent technology RingCap®, Library preparation in 2 steps.

Fast Results: The library preparation takes only 3.5 hours.

Accurate and Reliable: The detection sensitivity can reach 100 copies/ μ L.

Comprehensive Detection: Covering the most common 83 fusion mutations of FGFR1/2/3.

DETECTION PROCESS



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