ARCHER®
# *FUSIONPlex*®
Oncology Research Kit

The Archer® FusionPlex® Oncology Research Kit is a targeted next generation sequencing (NGS) assay to simultaneously detect and identify fusions and other mutations associated with 74 genes found in RNA transcripts that are linked to various cancers. This kit is extensive and purpose-built to advance fusion discovery, including research efforts in the area of Ph-like ALL fusions.

Highlights
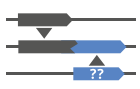
Novel fusion detection
Simultaneously identify both known and novel translocations

Lyophilized workflow
Reduce turn-around time and eliminate master mixes

Sample versatility
Purpose-built for low-input FFPE samples

Extensive
Comprehensive target list includes critical pediatric cancer markers

Specifications

74	≥10ng	3M
Gene targets	Input nucleic acid required*	Recommended # of reads

2.5h	9h	Illumina® & Ion Torrent™
Hands-on time	Total time	Platforms

*Input recommendations for FFPE samples vary depending on Archer Preseq® RNA QC score; 50ng input recommended in absence of PreSeq screening

Gene targets

ABL1 ●	CRLF2 ●	ETV5 ●	JAK3 ●	NOTCH2 ●	PPARG ●	SYK ●
ABL2 ●	CSF1R ●	ETV6 ●	KIT ●	NRG1 ●	PRKCA ●	TERT ●
AKT1 ●	EGFR ●	EWSR1 ●	MAML2 ●	NTRK1 ●	PRKCB ●	TFE3 ●
AKT2 ●	EPOR ●	FGFR1 ●	MAST1 ●	NTRK2 ●	PTK2B ●	TFEB ●
AKT3 ●	ERBB2 ●	FGFR2 ●	MAST2 ●	NTRK3 ●	RAF1 ●	THADA ●
ALK ●	ERBB4 ●	FGFR3 ●	MET ◆ ●	NUMBL ●	RARA ●	TMPRSS2 ●
ARHGAP26 ●	ERG ●	FGR ●	MSMB ●	NUT ●	RELA ●	TSLP ●
AXL ●	ESR1 ●	IL2RB ●	MUSK ●	PDGFRA ◆ ●	RET ●	TYK2 ●
BRAF ◆ ●	ESRRA ●	INSR ●	MYB ●	PDGFRB ●	ROS1 ●	
BRD3 ●	ETV1 ●	JAK1 ●	MYC ●	PIK3CA ●	RSPO2 ●	
BRD4 ●	ETV4 ●	JAK2 ●	NOTCH1 ●	PKN1 ●	RSPO3 ●	

Legend
◆ SNV or indel
● Fusion, splicing or exon skipping

Product information

Illumina

AB0009 — 8 reactions
AB0031 — 16-reaction starter
AB0061 — 48 reactions

Ion Torrent

AB0010 — 8 reactions
AB0032 — 16-reaction starter
AB0062 — 48 reactions

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