ARCHER®
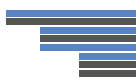# VARIANT**Plex**®
Comprehensive Thyroid & Lung Kit

The Archer® VariantPlex® Comprehensive Thyroid and Lung (CTL) Kit is an NGS-based targeted sequencing assay to detect CNVs, SNVs and indels in 31 thyroid and lung cancer-implicated genes. The kit covers entire targeted exons while maintaining high coverage uniformity (> 95%) and on-target reads (99.9%). When used alongside the RNA-based FusionPlex® CTL Kit, fusions, SNVs, CNVs and expression profiles can be analyzed from a single low-input FFPE sample.

Highlights

Superior coverage
Open-ended amplification gives strand-specific bidirectional coverage

Sample versatility
Purpose-built for low-input FFPE samples

Quantitative
Molecular barcode-enabled, robust and accurate CNV calling

Lyophilized workflow
Reduce turn-around time and eliminate master mixes

Specifications

31	≥10ng	1.5M
Gene targets	Input nucleic acid required*	Recommended # of reads
2.5h	1 day	Illumina®
Hands-on time	Total time	Platform

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

Gene targets

AKT1 ◆	EGFR ◆ ▦	GNAS ◆ ▦	MAP2K1 ◆	PTEN ◆ ▦	TSHR ◆
ALK ◆ ▦	EIF1AX ◆	HRAS ◆	MDM2 ▦	RET ◆ ▦	
BRAF ◆	ERBB2 ◆ ▦	IDH1 ◆	MET ◆ ▦	ROS1 ◆	**Legend**
CCND1 ▦	FGFR1 ◆ ▦	IDH2 ◆	NRAS ◆ ▦	STK11 ◆	◆ SNV or indel
CTNNB1 ◆	FGFR2 ◆ ▦	KIT ◆ ▦	PDGFRA ◆ ▦	TERT ◆	▦ CNV
DDR2 ◆ ▦	FGFR3 ◆ ▦	KRAS ◆ ▦	PIK3CA ◆ ▦	TP53 ◆ ▦	

Product information

Illumina

AB0077 — 8 reactions
AB0079 — 16-reaction starter
AB0081 — 48 reactions

One size *does not* ~~fits~~ fit~~s~~ all.

Want to customize? Combine any of hundreds of wet lab-validated designs or modify an existing Archer panel with **Archer Assay Designer**, the premiere online design tool to build an assay that fits your exact requirements.

Learn more at archerdx.com/solid-tumor

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