

## FusionPlex® Lung Focus Panel

### Part # CSK5006

### Description

The FusionPlex® Lung Focus Panel is an optimized balance of gene-specific primers (GSPs) that is used in conjunction with FusionPlex® Reagents and Molecular Barcode (MBC) Adapters to produce targeted NGS libraries.

FusionPlex® Lung Focus libraries contain **70** GSP pairs, targeting **5** genes commonly mutated in Lung Cancer.

### Contents

Description	Part Number	Storage Conditions
Archer® FusionPlex® Lung Focus Panel GSP1 - 8 reactions	CSA5006081	-20°C ± 10°C
Archer® FusionPlex® Lung Focus Panel GSP2 - 8 reactions	CSA5006082	
10X VCP Primer Mix	SA0126	

### Recommended Reads and Multiplexing

It is recommended to sequence FusionPlex® Lung Focus libraries to a minimum of 500,000 reads per sample when multiplexing.

### Assay Targets

Gene	Accession	Target Exon or Mutation	Direction	Assay Type
ALK	NM_004304	p.G1269	N/A	Mutation
ALK	NM_004304	p.L1196-S1206	N/A	Mutation
ALK	NM_004304	2,4,6,10,16,17,18,19,20,21,22,23,26	5	Fusion
MET	NM_000245	2,13	3	Fusion
MET	NM_000245	2,4,5,6,13,14,15,16,17,21	5	Fusion
NTRK1	NM_002529	2,4,6,8,10,11,12,13	5	Fusion
RET	NM_020630	A883	N/A	Mutation
RET	NM_020630	M918	N/A	Mutation
RET	NM_020975	8,9,10,11,12,13,14	5	Fusion
RET	NM_020630	2,4,6	5	Fusion
ROS1	NM_020630	G2032	N/A	Mutation
ROS1	NM_002944	2,4,7,31,32,33,34,35,36,37	5	Fusion

## Archer Analysis Settings

Sequencing data produced by this method must be converted to de-multiplexed FASTQ's, and then processed using [Archer Analysis](#) (v5.0 or greater). The FusionPlex® Lung Focus panel requires selection of the **RNA Fusion** pipeline, found under the RNA Analysis Type in Archer Analysis. The **RNA SNP/InDel** pipeline may optionally be chosen as well (see the software user manual for further details on setting up analyses).

The Archer Analysis software is available as a web service ([Analysis Unlimited](#)) or as a download for local installation, which can be requested via a webform on the product webpage:.

<http://archerdx.com/software/analysis>. The FusionPlex® Lung Focus panel also requires a one-time upload of a Target Region file (a text file, in GTF format, which directs the software on how to analyze data from the panel).

## Limitations of Use

**For Research Use Only.** Not intended to be used for diagnosis or treatment of human or animal diseases. This product was developed, manufactured, and sold for research use only.

Safety data sheets pertaining to this product are available upon request.

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### ArcherDX, Inc.

2477 55th Street, Suite 202

Boulder, CO 80301

303-357-9001

<http://www.archerdx.com>