

# ARCHER™ FUSIONPlex™

## Archer™ FusionPlex™ Sarcoma Panel

Genomic translocations represent an important aspect in sarcoma biology. Translocations have been reported in 20-30% of soft tissue cancers, with more than 30 distinct gene fusions recurring in specific sarcoma subtypes. Traditional methods of detecting translocations, such as FISH, lack the high-resolution molecular characterization crucial for understanding the identity of these fusion partners. Amplicon-based enrichment methods (such as RT-PCR or traditional targeted sequencing) enable fusion identification, but require that fusion partners and breakpoints be known in advance.

**The FusionPlex Sarcoma Panel** is a targeted sequencing assay that simultaneously detects and identifies fusions of 26 genes associated with soft tissue cancers. Using Archer's proprietary Anchored Multiplex PCR™ based enrichment, fusions of all genes in this panel can be identified in a single sequencing assay, even without prior knowledge of fusion partners or breakpoints.

- Innovative – first comprehensive NGS-based test on the market
- Comprehensive – identify sarcoma-related fusions in a single assay
- Streamlined – reduce turn-around time and eliminate reflex testing
- Detailed – characterize all molecular fusion partners

For Research Use Only. Not for use in diagnostic procedures.

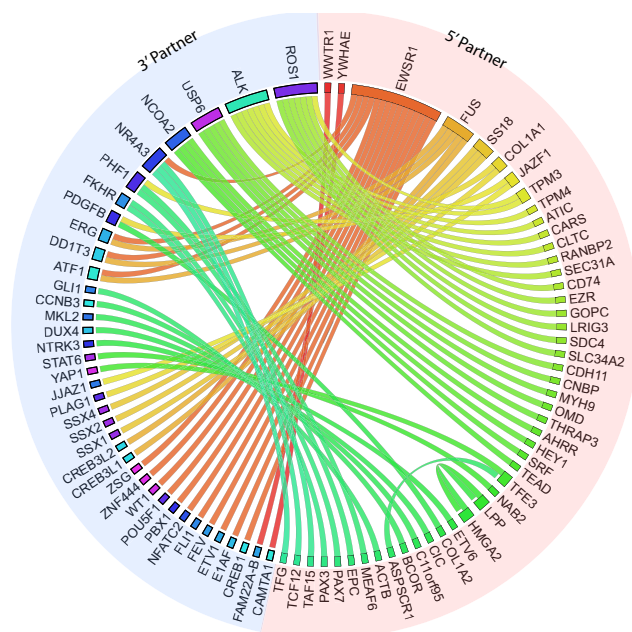
Learn more about the FusionPlex Sarcoma Panel at [www.archerdx.com/sarcoma](http://www.archerdx.com/sarcoma)

## Assay Targets

Includes the following genes and their fusion partners:

ALK	FUS	NTRK3	TCF12
CAMTA1	GLI1	PDGFB	TFE3
CCNB3	HMGA2	PLAG1	TFG
CIC	JAZF1	ROS1	USP6
EPC1	MEAF6	SS18	YWHAE
EWSR1	MKL2	STAT6	
FOXO1	NCOA2	TAF15	

## Sarcoma Fusion Map



The FusionPlex Sarcoma Panel can be used to identify all of the genes listed in the diagram above. By targeting the genes highlighted in red, our Anchored Multiplex PCR enrichment chemistry has the ability to identify each of these sarcoma-associated fusion pairs.