Archer™ FusionPlex™ Solid Tumor Panel

The Archer FusionPlex Solid Tumor Panel is a targeted sequencing assay that simultaneously detects and identifies fusions and other mutations in over 50 genes linked to carcinomas and other solid tumors.

The power of the FusionPlex Solid Tumor panel lies in proprietary Anchored Multiplex PCR (AMP)™-based enrichment. This chemistry enables detection of all fusions associated with the genes in this panel in a single sequencing assay, even without prior knowledge of fusion partners or breakpoints.

- **Comprehensive** – identify carcinoma-related fusions in a single assay
- **Detailed** – characterize fusion partners at single-nucleotide resolution
- **Streamlined** – reduce turn-around time and eliminate reflex testing
- **Flexible** – works with all clinical sample types, including FFPE; only 20ng RNA input required

Carcinoma Incidence and Mortality

Life-threatening carcinomas make up over 80% of all cancers\(^{(1)}\). In the United States, prostate cancer has the highest incidence rate, followed closely by female breast cancer, and lung cancer has by far the highest mortality rate.

Assay Targets

The panel includes specific breakpoints of the following genes.

- AKT3
- EWSR1
- NOTCH1/2
- RAF1
- ALK
- FGFR1/2/3
- NRG1
- RELA
- ARHGAP26
- FGR
- NTRK1/2/3
- RET
- AXL
- INSR
- NUMBL
- ROS1
- BRAF
- MAML2
- NUTM1
- RSPO2/3
- BRD3/4
- MAST1/2
- PDGFRAB
- TERT
- EGFR
- MET
- PIK3CA
- TFE3
- ERG
- MSMB
- PKN1
- TFEB
- ESR1
- MUSK
- PPARG
- THADA
- ETV1/4/5/6
- MYB
- PRKCA/B
- TMPRSS2

Learn more about the Solid Tumor Panel at www.archerdx.com/solid-tumor

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

\(^{(1)}\) Visit archerdx.com/solid-tumor for references
Receptor-mediated growth, proliferation and survival pathways

Gene targets in the FusionPlex Solid Tumor Panel are shaded.

FusionPlex Solid Tumor performance metrics by input type

Assay targets for oncogenic fusion detection include:
- Receptor tyrosine kinases and ligand
- MAP kinases
- Tumor suppressors
- Wnt signaling effectors
- Transcription factors

Superior Performance

The FusionPlex Solid Tumor Panel demonstrates superior on-target and uniformity metrics using clinically relevant samples.

Visualize Fusion Detection with Single Nucleotide Resolution

The FusionPlex Solid Tumor Panel in conjunction Archer Analysis software is optimized to detect both known and novel fusions.