Supplementary Materials:

Inconsistent Intersample ALK FISH Results in Patients with Lung Cancer: Analysis of Potential Causes

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File S1. Gene list for somatic mutation and/or copy number variations (CNVs). The somatic mutations in the coding sequence of 134 genes and selected copy number variations (amplifications) in 47 genes (overlap: 146 genes in total listed below) are included in the platform.

AKT1	*BTK*	*CREBBP*	*FGF19*	*HRAS*	*MAPK1*	*NBN*	*PIK3CB*	*RAF1*	*SPOP*
AKT2	*CBL*	*CSF1R*	*FGF3*	*IDH1*	*MAX*	*NF1*	*PIK3R1*	*RB1*	*SRC*
AKT3	*CCND1*	*CTNNB1*	*FGFR1*	*IDH2*	*MDM2*	*NF2*	*PMS2*	*RET*	*STAT3*
ALK	*CCND2*	*DDR2*	*FGFR2*	*IGF1R*	*MDM4*	*NFE2L2*	*POLE*	*RHEB*	*STK11*
AR	*CCND3*	*EGFR*	*FGFR3*	*JAK1*	*MED12*	*NOTCH1*	*PPARG*	*RHOA*	*TERT*
ARAF	*CCNE1*	*ERBB2*	*FGFR4*	*JAK2*	*MET*	*NOTCH2*	*PPP2R1A*	*RICTOR*	*TOP1*
ARID1A	*CDK12*	*ERBB3*	*FLT3*	*JAK3*	*MLH1*	*NOTCH3*	*PTCH1*	*RNF43*	*TP53*
ATM	*CDK2*	*ERBB4*	*FOXL2*	*KDR*	*MRE11A*	*NRAS*	*PTEN*	*ROS1*	*TSC1*
ATR	*CDK4*	*ERCC2*	*GATA2*	*KIT*	*MSH2*	*NTRK1*	*PTPN11*	*SETD2*	*TSC2*
ATRX	*CDK6*	*ESR1*	*GNA11*	*KNSTRN*	*MSH6*	*NTRK2*	*RAC1*	*SF3B1*	*U2AF1*
AXL	*CDKN1B*	*EZH2*	*GNAQ*	*KRAS*	*MTOR*	*NTRK3*	*RAD50*	*SLX4*	*XPO1*
BAP1	*CDKN2A*	*FANCA*	*GNAS*	*MAGOH*	*MYC*	*PALB2*	*RAD51*	*SMAD4*	
BRAF	*CDKN2B*	*FANCD2*	*H3F3A*	*MAP2K1*	*MYCL*	*PDGFRA*	*RAD51B*	*SMARCA4*	
BRCA1	*CHEK1*	*FANCI*	*HIST1H3B*	*MAP2K2*	*MYCN*	*PDGFRB*	*RAD51C*	*SMARCB1*	
BRCA2	*CHEK2*	*FBXW7*	*HNF1A*	*MAP2K4*	*MYD88*	*PIK3CA*	*RAD51D*	*SMO*	

File S2. List of gene fusions. A set of targeted fusion sequences corresponding to clinically relevant known inter- and intragenic fusions in the following 51 genes can be detected by the platform used in this study.

AKT2, ALK, AR, AXL, BRAF, BRCA1, BRCA2, CDKN2A, EGFR, ERB84, ERBB2, ERG, ESR1, ETV1, ETV4, ETV5, FGFR1, FGFR2, FGFR3, FGR, FLT3, JAK2, KRAS, MDM4, MET, MYB, MYBL1, NF1, NOTCH1, NOTCH4, NRG1, NTRK1, NTRK2, NTRK3, NUTM1, PDGFRA, PDGFRB, PIK3CA, PPARG, PRKACA, PRKACB, PTEN, RAD51B, RAF1, RB1, RELA, RET, ROS1, RSPO2, RSPO3, and TERT