

Table S1 NGS Oncomine Focus Assay

33 Hotspot genes

AKT1
 ALK
 AR
 BRAF
 CDK4
 CTNNB1
 DDR2
 EGFR
 ERBB2
 ERBB3
 ERBB4
 ESR1
 FGFR2
 FGFR3
 GNA11
 GNAQ
 HRAS
 IDH1
 IDH2
 JAK1
 JAK2
 JAK3
 KIT
 KRAS
 MET
 MTOR
 NRAS
 PDGFRA
 PIK3CA
 RAF1
 RET
 ROS1
 SMO

Table S1 (*continued*)**Table S1** (*continued*)

19 Copy number variants

ALK
 AR
 BRAF
 CCDN1
 CDK4
 CDK6
 EGFR
 ERBB2
 FGFR1
 FGFR2
 FGFR3
 FGFR4
 KIT
 KRAS
 MET
 MYC
 MYCN
 PDGFRA
 PIK3CA

23 Fusion drivers

ABL1
 AKT3
 ALK
 AXL
 BRAF
 ERG
 ETV1
 ETV4
 ETV5
 EGFR
 ERBB2
 FGFR1
 FGFR2

Table S1 (*continued*)**Table S1** (*continued*)

FGFR3
 MET
 NTRK1
 NTRK2
 NTRK3
 PDGFRA
 PPARG
 RAF1
 RET
 ROS1

Oncomine Focus Assay is a targeted, multi-biomarker NGS assay. DNA and RNA extracted from paraffin embedded tissues were analyzed by NGS using the Oncomine Focus gene panel for specific mutations in 50 genes. NGS, next-generation sequencing.