## **Supplementary Figure 1**

OS based on the Kaplan–Meier method for patients with *FGFR2* amplification detected in tissue<sup>+</sup>ctDNA<sup>+</sup> or tissue<sup>-</sup>ctDNA<sup>+</sup> versus in tissue<sup>-</sup>ctDNA<sup>-</sup>. Abbreviations: OS, overall survival; ctDNA, circulating tumor DNA.

## **Supplementary Figure 2**

Box plots show max VAF in the tissue\*ctDNA\* and tissue\*ctDNA\* groups. Boxes represent the 25th–75th percentiles, centerlines indicate the median, and whiskers extend to the maximum and minimum values. Abbreviations: max VAF, maximum variant allele frequency; ctDNA, circulating tumor DNA.

## **Supplementary Figure 3**

Immunohistochemical staining and FISH images of FGFR in biopsy specimens from the primary tumor of Patient 2. Orange and green signals represent *FGFR2* and *CEP10* in FISH analysis, respectively. Abbreviations: FISH, fluorescence in situ hybridization.