

Table S1 The list of 68-gene panel

<i>AKT1</i>	<i>BRCA1</i>	<i>DDR2</i>	<i>FGF4</i>	<i>JAK1</i>	<i>NF1</i>	<i>PTCH1</i>	<i>TOP2A</i>
<i>ALK</i>	<i>BRCA2</i>	<i>DPYD</i>	<i>FGFR1</i>	<i>JAK2</i>	<i>NOTCH1</i>	<i>PTEN</i>	<i>TP53</i>
<i>APC</i>	<i>CCND1</i>	<i>EGFR</i>	<i>FGFR2</i>	<i>KDR</i>	<i>NRAS</i>	<i>RAF1</i>	<i>TSC1</i>
<i>AR</i>	<i>CD74</i>	<i>ERBB2</i>	<i>FGFR3</i>	<i>KIT</i>	<i>NRG1</i>	<i>RB1</i>	<i>TSC2</i>
<i>ARAF</i>	<i>CDK4</i>	<i>ERBB3</i>	<i>FLT3</i>	<i>KRAS</i>	<i>NTRK1</i>	<i>RET</i>	<i>UGT1A1</i>
<i>ATM</i>	<i>CDK6</i>	<i>ERBB4</i>	<i>HRAS</i>	<i>MAP2K1</i>	<i>NTRK2</i>	<i>ROS1</i>	
<i>AXL</i>	<i>CDKN2A</i>	<i>ESR1</i>	<i>IDH1</i>	<i>MET</i>	<i>NTRK3</i>	<i>SMAD4</i>	
<i>BCL2L11</i>	<i>CTNNB1</i>	<i>FGF19</i>	<i>IDH2</i>	<i>MTOR</i>	<i>PDGFRA</i>	<i>SMO</i>	
<i>BRAF</i>	<i>CYP2D6</i>	<i>FGF3</i>	<i>IGF1R</i>	<i>MYC</i>	<i>PIK3CA</i>	<i>STK11</i>	

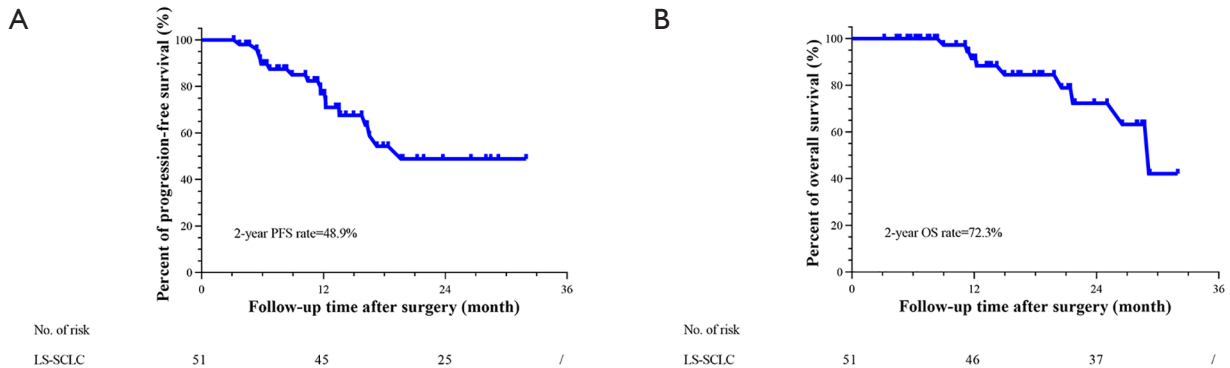


Figure S1 Survival outcomes of the primary cohort. (A) The Kaplan-Meier curve of PFS for the primary cohort; (B) the Kaplan-Meier curve of OS for the primary cohort. PFS, progression-free survival; OS, overall survival.

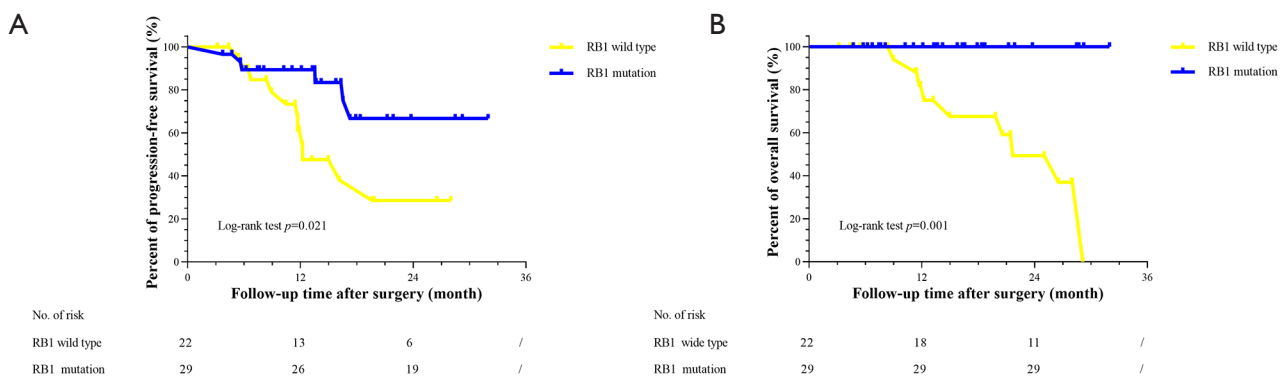


Figure S2 Survival outcomes of the primary cohort stratified by *RB1* status. (A) The Kaplan-Meier curve of PFS between the wild-type *RB1* and the *RB1* mutation; (B) the Kaplan-Meier curve of OS between the wild-type *RB1* and the *RB1* mutation. PFS, progression-free survival; OS, overall survival.