

**Supplemental Table 1. Next-generation sequencing data summary of the depth and coverage of the candidate genes**

Gene	Average depth of coverage (X)	Coverage 1X (%)	Coverage 5X (%)	Coverage 10X (%)	Coverage 20X (%)	Coverage 30X (%)
<i>AKT3</i>	96.84	100	100	100	100	100
<i>BRWD3</i>	149.39	100	100	99.18	98.88	98.14
<i>CDKN1C</i>	50.72	94.25	84.86	79.72	70.33	50.66
<i>CHD8</i>	123.26	100	100	99.94	99.39	97.46
<i>DNMT3A</i>	120.13	100	100	100	99.28	99.25
<i>DIS3L2</i>	158.04	100	100	100	100	100
<i>EZH2</i>	58.97	95.44	94.8	94.34	92.29	81.5
<i>GPC3</i>	183.75	100	100	99.3	97.14	93.72
<i>GPC4</i>	169.52	100	100	100	99.84	98.43
<i>NFIX</i>	130.45	96.88	96.88	96.88	96.88	95.62
<i>NSD1</i>	149.87	100	100	99.98	99.36	98.63
<i>PIK3CA</i>	115.53	100	99.67	92.43	92.01	91.43
<i>PTEN</i>	124.45	100	100	100	100	98.28