| Platform used               | Site of tumor biopsy           | Functionable Mutation detected | PODS annotation | Co-occurring alteration | PODS annotation |
|----------------------------|--------------------------------|--------------------------------|-----------------|-------------------------|----------------|
| MD Anderson CMS50          | Retroperitoneal lymph node     | AKT1 E17K Activating           | Yes             | CTNNB1_G34R             | No             |
| (Ion Ampliseq 50-Gene Assay) |                               |                                |                 |                         |                |
| MD Anderson STGA-DNA 2018  | Lung                           | AKT1 E17K Activating           | Yes             | CTNNB1_G34R             | No             |
|                             |                                | mTOR A1459D Activating         | Yes             |                         |                |
| MD Anderson STGA-DNA 2018  | Retroperitoneal lymph node     | AKT1 E17K                      |                 | CTNNB1_G34R, SLX4       |                |

**Supplementary Table 1: Details of sequential NGS analyses performed.**

Abbreviations: PODS, Precision Oncology Decision Support Team