

## **Description of Additional Supplementary Files**

Supplementary Data 1. Potentially clinically relevant SNVs/indels and CNAs detected in FFPE tissue samples from the CUP cohort.

Supplementary Data 2. Genomic regions targeted by the CheCUP panel (hg19).

Supplementary Data 3. List of CheCUP panel probes.

Supplementary Data 4: Normalized Log Data of the gene expression analysis using the NanoString nCounter technology