## **Description of Additional Supplementary Files**

File Name: Supplementary Data 1

Description: Custom gene panel ssSCv2 designed to detect somatic mutations (SNVs), small insertions and deletions (INDELs), copy number alterations (CNAs) and selected structural rearrangements. List of target regions, total size: 1.256 Mbp.

File Name: Supplementary Data 2

Description: Custom gene panel ssSCv3 designed to detect somatic mutations (SNVs), small insertions and deletions (INDELs), copy number alterations (CNAs) and selected structural rearrangements. List of target regions in 7 probe groups (7 promotor-regions, IKP SNPs, QC SNPs and regions, selected fusions, 678 selected genes, CNV SNPs, 279 hotspots). Total size: 3.868 Mbp.

File Name: Supplementary Data 3

Description: Custom gene panel ssSCv4 designed to detect somatic mutations (SNVs), small insertions and deletions (INDELs), copy number alterations (CNAs) and selected structural rearrangements. List of target regions in 7 probe groups (7 promotor-regions, IKP SNPs, QC SNPs and regions, selected fusions, 693 selected genes, CNV SNPs, 279 hotspots). Total size: 3.929 Mbp.