Title: Supplementary Data 1.

Description: Deletion Frequency Optimized CNVRs (provided in Excel format)

Title: Supplementary Data 2.

Description: Duplication Frequency Optimized CNVRs (provided in Excel format)

Title: Supplementary Data 3.

Description: Homozygous Deletion Frequency Optimized CNVRs (provided in Excel format)

Title: Supplementary Data 4.

Description: Poor Linkage Disequilibrium Between Rare CNV and Common SNP Genotypes (provided in Excel format)

Title: Supplementary Data 5.

Description: Extended results showing CNVRs associated with diseases reaching GWS significance (5x10-8). (provided in

Excel format)

Title: Supplementary Data 6.

Description: Extended results showing hdCNVRs associated with diseases reaching experimentally defined significance

based on repeated simulations (5x10-4). (provided in Excel format)

Title: Supplementary Data 7.

Description: Publications supporting somatic impact of cancer-associated CNVR mapped genes in multiple human cancers

(provided in Excel format)