## **Description of Additional Supplementary File**

**Supplementary Data 1.** Overview of study cohort.

**Supplementary Data 2.** Somatic substitutions and indels.

**Supplementary Data 3.** Somatic rearrangements.

**Supplementary Data 4.** Antibodies used for immunostaining.

Supplementary Data 5. Healthy kidney markers.

Supplementary Data 6. PD50642a markers.

**Supplementary Data 7.** PD54845a markers.

**Supplementary Data 8.** Differentially expressed genes