## **Description of Additional Supplementary Files**

File Name: Supplementary Data 1

Description: The list of differentially expressed genes between hARtg positive and negative

basal epithelial cells, related to Figure 3

File Name: Supplementary Data 2

Description: Differential binding regions from ChIP-seq data, related to Figure 3

File Name: Supplementary Data 3

Description: The list of differentially expressed genes between tumor and normal luminal

epithelial cells, related to Figure 4

File Name: Supplementary Data 4

Description: The list of differentially expressed genes between PIN and WT, related to Figure 5

File Name: Supplementary Data 5

Description: The list of differentially expressed genes between PCa and WT, related to Figure 5

File Name: Supplementary Data 6

Description: The list of differentially expressed genes between PCa and PIN, related to Figure 5