

### **Description of Additional Supplementary Files**

File Name: Supplementary Data 1

Description: Ninety-five TcGTs involving 39 genes were detected in more than 20% of tumors and less than 10% of non-tumoral tissue samples.

File Name: Supplementary Data 2

Description: POU5F1B and 60 proteins highly enriched in POU5F1B-specific immuno-precipitates after affinity purification and mass spectrometry (AP-MS) analysis in HT29 and LS1034 transduced cells.

File Name: Supplementary Data 3

Description: Proteins increased (in black) or downregulated (in blue) in POU5F1B-overexpressing SW480 cells.

File Name: Supplementary Data 4

Description: Proteins increased (in black) or downregulated (in blue) in scramble-shRNA transduced LS1034 cells.

File Name: Supplementary Data 5

Description: Proteins increased (in black) or downregulated (in blue) in the supernatant of POU5F1B-overexpressing SW480 cells.

File Name: Supplementary Data 6

Description: Proteins increased (in black) or downregulated (in blue) in the supernatant of scramble-shRNA transduced LS1034 cells.

File Name: Supplementary Data 7

Description: Proteins enriched in POU5F1B-overexpressing SW480 cells (Kinex™ array).