

## **Description of Additional Supplementary Files**

File Name: Supplementary Data 1

Description: Proteins identified in PAX8 BioID-MS experiment

File Name: Supplementary Data 2

Description: Inter and Intra-molecular crosslinks identified in PAX8-PRDM3 crosslinking-MS experiment

File Name: Supplementary Data 3

Description: ChIP-seq peaks for PAX8, PRDM3 and signal modulation upon reciprocal knockdown

File Name: Supplementary Data 4

Description: Full RNA-seq dataset

File Name: Supplementary Data 5

Description: SYBR green and Taqman probes used