

**Table S1.** Sample information of five datasets

<b>Dataset</b>	<b>TCGA-PRAD</b>		<b>GSE103512</b>		<b>GSE21034</b>		<b>GSE70770</b>		<b>GSE54460</b>	
Groups	Control	PCa	Control	PCa	Control	PCa	Control	PCa	Control	PCa
Number	51	481	7	60	29	150	74	219	0	96
Age	61.00±7.35	61.00±6.85	NA	64.00±6.49	NA	NA	65	62.00±7.97	NA	NA
Sex	0									
Male	51	481	NA	50	NA	NA	NA	NA	NA	NA
Female	0	0	NA	0	NA	NA	NA	NA	NA	NA
Unknown	0	0	NA	10	NA	NA	NA	NA	NA	NA

**Table SII.** List of primers used in reverse-transcription-quantitative PCR.

<b>Primer name</b>	<b>Sequence</b>
H-GAPDH	F:5'-AGTCCACTGGCGTCTTCACC-3'
	R:5'-TGATCTTGAGGCTGTTGTCATACTTC-3'
H-RMI1	F:5'-GTCAGCCTGCATACTCCCAGATAC-3'
	R:5'-GCAGCATCAACATTCGTGAAGGC-3'

**Table SIII.** The targeted sequences of shRNA and the shNC sequence.

<b>Gene symbol</b>	<b>Targeted sequence</b>
RMI1-shRNA-1	CGATCGAAGTATAGAGAGATT
RMI1-shRNA-2	GAACCATCAAACCTATCTATA
RMI1-shRNA-3	GCATATCTAGATGTAGACTTT
shNC	TTCTCCGAACGTGTCACGT

sh, short hairpin; NC, negative control.