Supplementary Table 1. The basic information of public datasets from GEO and TCGA

Datasets	Platforms	Samples
GSE112264	GPL21263: 3D-Gene Human miRNA V21_1.0.0	809 PCa cases and 241 cancer-free controls
GSE113234	GPL19730: Agilent-046064 Unrestricted_Human_miRNA_V19.0_Microarray	60 PCa cases and 51 cancer-free controls
GSE113486	GPL21263: 3D-Gene Human miRNA V21_1.0.0	40 PCa cases and 48 cancer-free controls
GSE60117	GPL3264: Agilent-021827 Human miRNA Microarray (V3)	56 PCa cases and 21 cancer-free controls
TCGA	IlluminaHiSeq_RNASeqV2	52 paired PCa cases and adjacent normal control

Supplementary Table 2. The primers of candidate miRNAs and U6

Genes	Reverse transcription primer	PCR Primers
U6	AACGCTTCACGAATTTGCGT	F: CTCGCTTCGGCAGCACA
		R: AACGCTTCACGAATTTGCGT
miR-103a-3p	CTCAACTGGTGTCGTGGAGT	F: ACACTCCAGCTGGGAGCAGCATTGTACAGGG
	CGGCAATTCAGTTGATTCATAGCC	R: TGGTGTCGTGGAGTCG
let-7f-5p	CTCAACTGGTGTCGTGGAGT	F: ACACTCCAGCTGGGTGAGGTAGTAGATTGT
	CGGCAATTCAGTTGATAACTATAC	R: TGGTGTCGTGGAGTCG