Oncogenic microRNA-4534 regulates PTEN pathway in prostate cancer

Supplementary Materials

Supplementary Table S1: Clinicopathologic characteristics of prostate cancer patients (*N* = 84)

Characteristics	Patient set†
Age, Years	**Number of patients (84)**
Mean	62
Median	68
Range	48–81
T-stage	
pT2	58
pT3-pT4	26
Gleason Score	
< 7	41
7	33
> 7	9
PSA failure	
Yes	34
Pathological diagnosis	
Adenocarcinoma	84

†miR-4534 expression determined from matched laser captured microdisected tissues.

Supplementary Table S2: Complimentary sequences in 3′UTRs of PTEN for miR-4534 and sequences of primers and probes

Complimentary sequences in 3′UTRs of PTEN for miR-4534 form miRBD

3′UCUGGGGAGGAGGUAG-G 5′miR-4534

| | | | | | | | | | |

5′TAACGACTT CTCCATCTC 3′ 911:PTEN 3UTR

3′UCUGGGGAGGAGGUAG-G 5′iR-4534

| | | | | | | | | | |

5′TATTGA AAT TAATCGATA 3′ 911:Mutant vector (Mutant PTEN 3UTR)

Underlined sequences in miR-4534mature sequence were changed for mutated 3′UTR (Mutant vector) sequences.

The primers for amplifying CpG islands are:

F1: 5′ GTGATTTATTTTTGTAAGTTTAGTATTTTGGGAG 3′(forward)

R1: 5′ ACAAATACRTACCACCATACCCAA 3′ (reverse)

The probes for methylation/unmethylation specific realtime PCR were synthesized by Applied Biosystems (Foster City, CA, USA), labeled with 6FAM reporter at 5′ end and with MGB quencher at 3′end. The sequences are:

M: 5′ CGAGGCGGGTAGATTATTTGAG 3′ (Methylation reaction)

U: 5′ TGAGGTGGGTAGATTATTTGAG (Unmethylation reaction)