

Table S3: Altered miRNAs in prostate cancer (1)

1. Xie B, Ding Q, Han H, et al. miRCancer: a microRNA-cancer association database constructed by text mining on literature. *Bioinformatics*. 2013;29(5):638-44.

mirId	Family/Cluster	Cancer	Profile	PubMed Article
hsa-let-7a-3p		prostate cancer	down	The miRNA let-7a1 inhibits the expression of insulin-like growth factor 1 receptor (IGF1R) in prostate cancer PC-3 cells.
hsa-let-7c		prostate cancer	down	MicroRNA let-7c suppresses androgen receptor expression and activity via regulation of Myc expression in prostate cancer cells.
hsa-let-7c		prostate cancer	down	MicroRNA let-7c is downregulated in prostate cancer and suppresses prostate cancer growth.
hsa-miR-100		prostate cancer	down	Loss of miR-100 enhances migration, invasion, epithelial-mesenchymal transition and stemness properties in prostate cancer cells through targeting Argonaute 2.
hsa-miR-101		prostate cancer	down	Enforced expression of miR-101 inhibits prostate cancer cell growth by modulating the COX-2 pathway in vivo.
hsa-miR-105		prostate cancer	down	miR-105 Inhibits Prostate Tumour Growth by Suppressing CDK6 Levels.
hsa-miR-124		prostate cancer	down	MiR-124 suppresses cell motility and adhesion by targeting talin 1 in prostate cancer cells.
hsa-miR-125b		prostate cancer	up	Widespread deregulation of microRNA expression in human prostate cancer.
hsa-miR-125b		prostate cancer	up	Oncomir miR-125b suppresses p14(ARF) to modulate p53-dependent and p53-independent apoptosis in prostate cancer.
hsa-miR-128		prostate cancer	down	MicroRNA-128 downregulates Bax and induces apoptosis in human embryonic kidney cells.
hsa-miR-128		prostate cancer	down	miRNA-128 suppresses prostate cancer by inhibiting BMI-1 to inhibit tumor-initiating cells.

mirId	Family/Cluster	Cancer	Profile	PubMed Article
hsa-miR-1296		prostate cancer	down	Regulation of minichromosome maintenance gene family by microRNA-1296 and genistein in prostate cancer.
hsa-miR-130b		prostate cancer	down	MiR-130b suppresses prostate cancer metastasis through down-regulation of MMP2.
hsa-miR-133b	mir-133	prostate cancer	down	microRNA-133 inhibits cell proliferation, migration and invasion in prostate cancer cells by targeting the epidermal growth factor receptor.
hsa-miR-135a		prostate cancer	down	Androgen-regulated microRNA-135a decreases prostate cancer cell migration and invasion through downregulating ROCK1 and ROCK2.
hsa-miR-141		prostate cancer	up	A study of molecular signals deregulating mismatch repair genes in prostate cancer compared to benign prostatic hyperplasia.
hsa-miR-143		prostate cancer	down	miR-143 interferes with ERK5 signaling, and abrogates prostate cancer progression in mice.
hsa-miR-143		prostate cancer	down	miR-143 decreases prostate cancer cells proliferation and migration and enhances their sensitivity to docetaxel through suppression of KRAS.
hsa-miR-143		prostate cancer	down	MicroRNA-143 inhibits cell migration and invasion by targeting matrix metalloproteinase 13 in prostate cancer.
hsa-miR-143		prostate cancer	down	The tumor-suppressive microRNA-143/145 cluster inhibits cell migration and invasion by targeting GOLM1 in prostate cancer.
hsa-miR-145		prostate cancer	down	The functional significance of microRNA-145 in prostate cancer.

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hsa-miR-145		prostate cancer	down	Restoration of miR-145 expression suppresses cell proliferation, migration and invasion in prostate cancer by targeting FSCN1.
hsa-miR-145		prostate cancer	down	MicroRNA-145 is regulated by DNA methylation and p53 gene mutation in prostate cancer.
hsa-miR-145		prostate cancer	down	The tumor-suppressive microRNA-143/145 cluster inhibits cell migration and invasion by targeting GOLM1 in prostate cancer.
hsa-miR-145		prostate cancer	down	miR-145 suppress the androgen receptor in prostate cancer cells and correlates to prostate cancer prognosis.
hsa-miR-146a		prostate cancer	down	Clinical significance of miR-146a in gastric cancer cases.
hsa-miR-146a		prostate cancer	down	miR-146a functions as a tumor suppressor in prostate cancer by targeting Rac1.
hsa-miR-153		prostate cancer	up	Upregulation of miR-153 promotes cell proliferation via downregulation of the PTEN tumor suppressor gene in human prostate cancer.
hsa-miR-154		prostate cancer	down	miR-154 inhibits prostate cancer cell proliferation by targeting CCND2.
hsa-miR-155		prostate cancer	up	A study of molecular signals deregulating mismatch repair genes in prostate cancer compared to benign prostatic hyperplasia.
hsa-miR-15a		prostate cancer	down	Downregulation of miR-221, -30d, and -15a contributes to pathogenesis of prostate cancer by targeting Bmi-1.
hsa-miR-15a	mir-15	prostate cancer	down	A microRNA code for prostate cancer metastasis.
hsa-miR-15b	mir-15	prostate cancer	down	A microRNA code for prostate cancer metastasis.
hsa-miR-16		prostate cancer	down	A microRNA code for prostate cancer metastasis.

mirId	Family/Cluster	Cancer	Profile	PubMed Article
hsa-miR-181b		prostate cancer	up	MicroRNA-181b expression in prostate cancer tissues and its influence on the biological behavior of the prostate cancer cell line PC-3.
hsa-miR-181c	mir-181	prostate cancer	up	microRNA-181 promotes prostate cancer cell proliferation by regulating DAX-1 expression.
hsa-miR-181d	mir-181	prostate cancer	up	microRNA-181 promotes prostate cancer cell proliferation by regulating DAX-1 expression.
hsa-miR-182		prostate cancer	up	miR-183-96-182 cluster is overexpressed in prostate tissue and regulates zinc homeostasis in prostate cells.
hsa-miR-182		prostate cancer	up	Overexpressed microRNA-182 promotes proliferation and invasion in prostate cancer PC-3 cells by down-regulating N-myc downstream regulated gene 1 (NDRG1).
hsa-miR-182		prostate cancer	up	Hypoxia-inducible miR-182 enhances HIF1? signaling via targeting PHD2 and FIH1 in prostate cancer.
hsa-miR-182-5p		prostate cancer	up	MicroRNA-182-5p Promotes Cell Invasion and Proliferation by Down Regulating FOXF2, RECK and MTSS1 Genes in Human Prostate Cancer.
hsa-miR-183		prostate cancer	up	miR-183-96-182 cluster is overexpressed in prostate tissue and regulates zinc homeostasis in prostate cells.
hsa-miR-183		prostate cancer	up	microRNA-183 is an oncogene targeting Dkk-3 and SMAD4 in prostate cancer.
hsa-miR-187		prostate cancer	down	MiR-187 Targets the Androgen-Regulated Gene ALDH1A3 in Prostate Cancer.
hsa-miR-188-5p		prostate cancer	down	miR-188-5p inhibits tumour growth and metastasis in prostate cancer by repressing LPTM4B expression.

mirId	Family/Cluster	Cancer	Profile	PubMed Article
hsa-miR-18a		prostate cancer	up	MicroRNA-18a is elevated in prostate cancer and promotes tumorigenesis through suppressing STK4 in vitro and in vivo.
hsa-miR-195	mir-15	prostate cancer	down	A microRNA code for prostate cancer metastasis.
hsa-miR-195		prostate cancer	down	miR-195 Inhibits Tumor Progression by Targeting RPS6KB1 in Human Prostate Cancer.
hsa-miR-199b		prostate cancer	down	MiR199b Suppresses Expression of Hypoxia-Inducible Factor 1? (HIF-1?) in Prostate Cancer Cells.
hsa-miR-200b		prostate cancer	down	miR-200b suppresses cell proliferation, migration and enhances chemosensitivity in prostate cancer by regulating Bmi-1.
hsa-miR-200b		prostate cancer	down	miR-200b inhibits prostate cancer EMT, growth and metastasis.
hsa-miR-203		prostate cancer	down	Loss of EGFR signaling regulated miR-203 promotes prostate cancer bone metastasis and tyrosine kinase inhibitors resistance.
hsa-miR-203		prostate cancer	down	MiR-203 down-regulates Rap1A and suppresses cell proliferation, adhesion and invasion in prostate cancer.
hsa-miR-204		prostate cancer	up	Mechanisms and functional consequences of PDEF protein expression loss during prostate cancer progression.
hsa-miR-205		prostate cancer	down	Downregulation of miR-205 and miR-31 confers resistance to chemotherapy-induced apoptosis in prostate cancer cells.
hsa-miR-205		prostate cancer	down	Epigenetic-induced repression of microRNA-205 is associated with MED1 activation and a poorer prognosis in localized prostate cancer.
hsa-miR-205		prostate cancer	down	MicroRNA-205, a novel regulator of the anti-apoptotic protein Bcl2, is downregulated in prostate cancer.

mirId	Family/Cluster	Cancer	Profile	PubMed Article
hsa-miR-205		prostate cancer	down	miR-205 is frequently downregulated in prostate cancer and acts as a tumor suppressor by inhibiting tumor growth.
hsa-miR-205		prostate cancer	down	Polycomb protein EZH2 suppresses apoptosis by silencing the proapoptotic miR-31.
hsa-miR-205		prostate cancer	down	MicroRNA-205 inhibits cancer cell migration and invasion via modulation of centromere protein F regulating pathways in prostate cancer.
hsa-miR-205		prostate cancer	down	Editorial Comment to MicroRNA-205 inhibits cancer cell migration and invasion via modulation of centromere protein F regulating pathways in prostate cancer.
hsa-miR-20a		prostate cancer	up	miR-20a promotes Prostate cancer invasion and migration through targeting ABL2.
hsa-miR-21		prostate cancer	up	MicroRNA-21 inhibits p57Kip2 expression in prostate cancer.
hsa-miR-21		prostate cancer	up	A study of molecular signals deregulating mismatch repair genes in prostate cancer compared to benign prostatic hyperplasia.
hsa-miR-21		prostate cancer	up	A microRNA code for prostate cancer metastasis.
hsa-miR-212		prostate cancer	down	A potential regulatory loop between Lin28B:miR?212 in androgen-independent prostate cancer.
hsa-miR-218		prostate cancer	down	Tumor-suppressive microRNA-218 inhibits cancer cell migration and invasion via targeting of LASP1 in prostate cancer.
hsa-miR-218		prostate cancer	down	microRNA-218 inhibits prostate cancer cell growth and promotes apoptosis by repressing TPD52 expression.

mirId	Family/Cluster	Cancer	Profile	PubMed Article
hsa-miR-221		prostate cancer	up	MiR-221 promotes the development of androgen independence in prostate cancer cells via downregulation of HECTD2 and RAB1A.
hsa-miR-221		prostate cancer	down	Downregulation of miR-221, -30d, and -15a contributes to pathogenesis of prostate cancer by targeting Bmi-1.
hsa-miR-221		prostate cancer	up	Effects of microRNA-221/222 on cell proliferation and apoptosis in prostate cancer cells.
hsa-miR-221		prostate cancer	down	MicroRNA expression signature of castration-resistant prostate cancer: the microRNA-221/222 cluster functions as a tumour suppressor and disease progression marker.
hsa-miR-222		prostate cancer	up	Effects of microRNA-221/222 on cell proliferation and apoptosis in prostate cancer cells.
hsa-miR-222		prostate cancer	down	MicroRNA expression signature of castration-resistant prostate cancer: the microRNA-221/222 cluster functions as a tumour suppressor and disease progression marker.
hsa-miR-223-3p		prostate cancer	up	MiR-223-3p targeting SEPT6 promotes the biological behavior of prostate cancer.
hsa-miR-224		prostate cancer	down	MicroRNA-224 inhibits progression of human prostate cancer by downregulating TRIB1.
hsa-miR-224		prostate cancer	down	Tumour-suppressive microRNA-224 inhibits cancer cell migration and invasion via targeting oncogenic TPD52 in prostate cancer.
hsa-miR-224		prostate cancer	down	MicroRNA-224 and its target CAMKK2 synergistically influence tumor progression and patient prognosis in prostate cancer.

mirId	Family/Cluster	Cancer	Profile	PubMed Article
hsa-miR-23a		prostate cancer	down	Downregulation of microRNA-23a suppresses prostate cancer metastasis by targeting the PAK6-LIMK1 signaling pathway.
hsa-miR-23b		prostate cancer	down	miR-23b represses proto-oncogene Src kinase and functions as methylation-silenced tumor suppressor with diagnostic and prognostic significance in prostate cancer.
hsa-miR-25		prostate cancer	down	miR-25 Modulates Invasiveness and Dissemination of Human Prostate Cancer Cells via Regulation of $\alpha$ - and $\beta$ -Integrin Expression.
hsa-miR-26a		prostate cancer	down	Myc enforces overexpression of EZH2 in early prostatic neoplasia via transcriptional and post-transcriptional mechanisms.
hsa-miR-26a		prostate cancer	down	MiR-26a inhibits prostate cancer progression by repression of Wnt5a.
hsa-miR-26b		prostate cancer	down	Myc enforces overexpression of EZH2 in early prostatic neoplasia via transcriptional and post-transcriptional mechanisms.
hsa-miR-29b		prostate cancer	down	miRNA-29b suppresses prostate cancer metastasis by regulating epithelial-mesenchymal transition signaling.
hsa-miR-302a		prostate cancer	down	MicroRNA-302a Suppresses Tumor Cell Proliferation by Inhibiting AKT in Prostate Cancer.
hsa-miR-30a	mir-30	prostate cancer	down	miR-30 as a tumor suppressor connects EGF/Src signal to ERG and EMT.
hsa-miR-30b	mir-30	prostate cancer	down	miR-30 as a tumor suppressor connects EGF/Src signal to ERG and EMT.
hsa-miR-30d	mir-30	prostate cancer	down	miR-30 as a tumor suppressor connects EGF/Src signal to ERG and EMT.



mirId	Family/Cluster	Cancer	Profile	PubMed Article
hsa-miR-30d		prostate cancer	down	Downregulation of miR-221, -30d, and -15a contributes to pathogenesis of prostate cancer by targeting Bmi-1.
hsa-miR-30e	mir-30	prostate cancer	down	miR-30 as a tumor suppressor connects EGF/Src signal to ERG and EMT.
hsa-miR-31		prostate cancer	down	Downregulation of miR-205 and miR-31 confers resistance to chemotherapy-induced apoptosis in prostate cancer cells.
hsa-miR-31		prostate cancer	up	Screening Biomarkers of Prostate Cancer by Integrating microRNA and mRNA Microarrays.
hsa-miR-31		prostate cancer	down	Polycomb protein EZH2 suppresses apoptosis by silencing the proapoptotic miR-31.
hsa-miR-323		prostate cancer	down	MiR-323 Inhibits Prostate Cancer Vascularization Through Adiponectin Receptor.
hsa-miR-330		prostate cancer	down	MicroRNA-330 acts as tumor suppressor and induces apoptosis of prostate cancer cells through E2F1-mediated suppression of Akt phosphorylation.
hsa-miR-330		prostate cancer	down	microRNA-330 inhibits cell motility by downregulating Sp1 in prostate cancer cells.
hsa-miR-331-3p		prostate cancer	down	miR-331-3p regulates ERBB-2 expression and androgen receptor signaling in prostate cancer.
hsa-miR-331-3p		prostate cancer	down	Regulation of Expression of Deoxyhypusine Hydroxylase (DOHH), the Enzyme That Catalyzes the Activation of eIF5A, by miR-331-3p and miR-642-5p in Prostate Cancer Cells.
hsa-miR-345		prostate cancer	down	MiR-345 suppresses proliferation, migration and invasion by targeting Smad1 in human prostate cancer.
hsa-miR-34a		prostate cancer	down	The microRNA miR-34a inhibits prostate cancer stem cells and metastasis by directly repressing CD44.

mirId	Family/Cluster	Cancer	Profile	PubMed Article
hsa-miR-34a		prostate cancer	down	MicroRNA-34a modulates c-Myc transcriptional complexes to suppress malignancy in human prostate cancer cells.
hsa-miR-34a		prostate cancer	down	LEF1 Targeting EMT in Prostate Cancer Invasion is Regulated by miR-34a.
hsa-miR-34a		prostate cancer	down	Registered report: the microRNA miR-34a inhibits prostate cancer stem cells and metastasis by directly repressing CD44.
hsa-miR-34b		prostate cancer	down	miRNA-34b inhibits prostate cancer through demethylation, active chromatin modifications, and AKT pathways.
hsa-miR-34c		prostate cancer	down	miR-34c is downregulated in prostate cancer and exerts tumor suppressive functions.
hsa-miR-374b		prostate cancer	down	Global analysis of the differentially expressed miRNAs of prostate cancer in Chinese patients.
hsa-miR-429		prostate cancer	up	Downregulation of microRNA-429 inhibits cell proliferation by targeting p27Kip1 in human prostate cancer cells.
hsa-miR-449a		prostate cancer	down	miR-449a targets HDAC-1 and induces growth arrest in prostate cancer.
hsa-miR-449a		prostate cancer	down	miR-449a causes Rb-dependent cell cycle arrest and senescence in prostate cancer cells.
hsa-miR-4723-5p		prostate cancer	down	MicroRNA-4723 Inhibits Prostate Cancer Growth through Inactivation of the Abelson Family of Nonreceptor Protein Tyrosine Kinases.
hsa-miR-497		prostate cancer	down	MicroRNA-497 Suppresses Proliferation and Induces Apoptosis in Prostate Cancer Cells.
hsa-miR-497		prostate cancer	down	Tumor-suppressive microRNA-497 targets IKK $\beta$ to regulate NF- $\kappa$ B signaling pathway in human prostate cancer cells.

mirId	Family/Cluster	Cancer	Profile	PubMed Article
hsa-miR-503		prostate cancer	down	miR-503 suppresses tumor cell proliferation and metastasis by directly targeting RNF31 in prostate cancer.
hsa-miR-628-5p		prostate cancer	down	Circulatory miR-628-5p is downregulated in prostate cancer patients.
hsa-miR-642a-5p		prostate cancer	down	Regulation of Expression of Deoxyhypusine Hydroxylase (DOHH), the Enzyme That Catalyzes the Activation of eIF5A, by miR-331-3p and miR-642-5p in Prostate Cancer Cells.
hsa-miR-7		prostate cancer	down	MicroRNA-7 inhibits the stemness of prostate cancer stem-like cells and tumorigenesis by repressing KLF4/PI3K/Akt/p21 pathway.
hsa-miR-765		prostate cancer	down	Hsa-miRNA-765 as a Key Mediator for Inhibiting Growth, Migration and Invasion in Fulvestrant-Treated Prostate Cancer.
hsa-miR-940		prostate cancer	down	MicroRNA-940 suppresses prostate cancer migration and invasion by regulating MIEN1.
hsa-miR-96		prostate cancer	up	miR-183-96-182 cluster is overexpressed in prostate tissue and regulates zinc homeostasis in prostate cells.
hsa-miR-96		prostate cancer	up	miR-96 promotes cell proliferation and clonogenicity by down-regulating of FOXO1 in prostate cancer cells.
hsa-miR-96		prostate cancer	up	Transforming growth factor-? promotes prostate bone metastasis through induction of microRNA-96 and activation of the mTOR pathway.
hsa-miR-223		prostate cancer	down	Inhibiting inducible miR-223 further reduces viable cells in human cancer cell lines MCF-7 and PC3 treated by celastrol.

mirId	Family/Cluster	Cancer	Profile	PubMed Article
hsa-miR-22		prostate cancer	up	Dual Action of miR-125b As a Tumor Suppressor and OncomiR-22 Promotes Prostate Cancer Tumorigenesis.
hsa-miR-125b		prostate cancer	down	Dual Action of miR-125b As a Tumor Suppressor and OncomiR-22 Promotes Prostate Cancer Tumorigenesis.
hsa-miR-223		prostate cancer	down	Tumor-suppressive microRNA-223 inhibits cancer cell migration and invasion by targeting ITGA3/ITGB1 signaling in prostate cancer.
hsa-miR-34a		prostate cancer	down	Methylation-induced silencing of miR-34a enhances chemoresistance by directly upregulating ATG4B-induced autophagy through AMPK/mTOR pathway in prostate cancer.
hsa-miR-573		prostate cancer	down	miR-573 inhibits prostate cancer metastasis by regulating epithelial-mesenchymal transition.
hsa-miR-212		prostate cancer	down	MicroRNA-212 negatively regulates starvation induced autophagy in prostate cancer cells by inhibiting SIRT1 and is a modulator of angiogenesis and cellular senescence.
hsa-miR-340		prostate cancer	down	microRNA-340 Suppresses Tumorigenic Potential of Prostate Cancer Cells by Targeting High-Mobility Group Nucleosome-Binding Domain 5.
hsa-miR-378		prostate cancer	down	MiR-378 suppresses prostate cancer cell growth through downregulation of MAPK1 in vitro and in vivo.
hsa-miR-301a		prostate cancer	up	MiR-301a regulates E-cadherin expression and is predictive of prostate cancer recurrence.
hsa-miR-26b		prostate cancer	down	miR-26b inhibits autophagy by targeting ULK2 in prostate cancer cells.

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hsa-miR-135b		prostate cancer	down	miR-135b inhibits tumour metastasis in prostate cancer by targeting STAT6.
hsa-miR-24		prostate cancer	down	miR-24 regulates CDKN1B/p27 expression in prostate cancer. A transcriptional target of androgen receptor, miR-421 regulates proliferation and metabolism of prostate cancer cells.
hsa-miR-421		prostate cancer	down	Hypoxia induced upregulation of miR-301a/b contributes to increased cell autophagy and viability of prostate cancer cells by targeting NDRG2.
hsa-miR-301a		prostate cancer	up	Hypoxia induced upregulation of miR-301a/b contributes to increased cell autophagy and viability of prostate cancer cells by targeting NDRG2.
hsa-miR-301b		prostate cancer	up	MicroRNA-103 suppresses tumor cell proliferation by targeting PDCD10 in prostate cancer.
hsa-miR-103		prostate cancer	down	Exosomal microRNA-141 is upregulated in the serum of prostate cancer patients.
hsa-miR-141		prostate cancer	up	miR-34a inhibits cell proliferation in prostate cancer by downregulation of SIRT1 expression.
hsa-miR-34a		prostate cancer	down	MicroRNA-340 inhibits prostate cancer cell proliferation and metastasis by targeting the MDM2-p53 pathway.
hsa-miR-340		prostate cancer	down	MicroRNA-613 represses prostate cancer cell proliferation and invasion through targeting Frizzled7.
hsa-miR-613		prostate cancer	down	miR-195 Inhibits EMT by Targeting FGF2 in Prostate Cancer Cells.
hsa-miR-195		prostate cancer	down	MicroRNA-335 and -543 suppress bone metastasis in prostate cancer via targeting endothelial nitric oxide synthase.
hsa-miR-335		prostate cancer	down	

mirId	Family/Cluster	Cancer	Profile	PubMed Article
hsa-miR-543		prostate cancer	down	MicroRNA-335 and -543 suppress bone metastasis in prostate cancer via targeting endothelial nitric oxide synthase.
hsa-miR-150		prostate cancer	up	MIR-150 promotes prostate cancer stem cell development via suppressing p27Kip1.
hsa-miR-146b		prostate cancer	down	MicroRNA-146b acts as a potential tumor suppressor in human prostate cancer.
hsa-miR-503		prostate cancer	down	GATA3-driven expression of miR-503 inhibits prostate cancer progression by repressing ZNF217 expression.
hsa-miR-1301		prostate cancer	up	miR-1301 promotes prostate cancer proliferation through directly targeting PPP2R2C.
hsa-miR-129		prostate cancer	down	Downregulation of miR-129 in peripheral blood mononuclear cells is a diagnostic and prognostic biomarker in prostate cancer.
hsa-miR-26a		prostate cancer	down	MiR-26a and miR-138 block the G1/S transition by targeting the cell cycle regulating network in prostate cancer cells.
hsa-miR-138		prostate cancer	down	MiR-26a and miR-138 block the G1/S transition by targeting the cell cycle regulating network in prostate cancer cells.
hsa-miR-31		prostate cancer	down	Class I HDAC inhibitor mocetinostat induces apoptosis by activation of miR-31 expression and suppression of E2F6.
hsa-miR-204-5p		prostate cancer	down	Tumor suppressor miRNA-204-5p promotes apoptosis by targeting BCL2 in prostate cancer cells.
hsa-miR-26a-5p		prostate cancer	down	Loss of miR-26a-5p promotes proliferation, migration, and invasion in prostate cancer through negatively regulating SERBP1.
hsa-miR-204		prostate cancer	down	The dual regulatory role of miR-204 in cancer.

mirId	Family/Cluster	Cancer	Profile	PubMed Article
hsa-miR-22		prostate cancer	down	miR-22 inhibits tumor growth and metastasis by targeting ATP citrate lyase: evidence in osteosarcoma, prostate cancer, cervical cancer and lung cancer.
hsa-miR-182-5p		prostate cancer	up	Androgen receptor regulated microRNA miR-182-5p promotes prostate cancer progression by targeting the ARRDC3/ITGB4 pathway.
hsa-miR-154-5p		prostate cancer	down	miRNA-154-5p Inhibits Proliferation, Migration and Invasion by Targeting E2F5 in Prostate Cancer Cell Lines.
hsa-miR-452		prostate cancer	down	Regulation of E3 ubiquitin ligase-1 (WWP1) by microRNA-452 inhibits cancer cell migration and invasion in prostate cancer.
hsa-miR-539		prostate cancer	down	miR-539 inhibits prostate cancer progression by directly targeting SPAG5.
hsa-miR-26a		prostate cancer	down	Downregulated microRNA-26a modulates prostate cancer cell proliferation and apoptosis by targeting COX-2.
hsa-miR-3619-5p		prostate cancer	down	miR-3619-5p inhibits prostate cancer cell growth by activating CDKN1A expression.
hsa-miR-486-5p		prostate cancer	down	miR-486-5p suppresses prostate cancer metastasis by targeting Snail and regulating epithelial-mesenchymal transition.
hsa-miR-146a		prostate cancer	down	LncRNA PVT1 regulates prostate cancer cell growth by inducing the methylation of miR-146a.
hsa-miR-382		prostate cancer	down	MicroRNA-382 inhibits prostate cancer cell proliferation and metastasis through targeting COUP-TFII.
hsa-miR-1297		prostate cancer	down	MicroRNA-1297 inhibits prostate cancer cell proliferation and invasion by targeting the AEG-1/Wnt signaling pathway.

mirId	Family/Cluster	Cancer	Profile	PubMed Article
hsa-miR-372		prostate cancer	down	microRNA-372 Suppresses Migration and Invasion by Targeting p65 in Human Prostate Cancer Cells.
hsa-miR-186		prostate cancer	down	miR-186 inhibits cell proliferation of prostate cancer by targeting GOLPH3.
hsa-miR-27a		prostate cancer	down	Androgen-induced miR-27A acted as a tumor suppressor by targeting MAP2K4 and mediated prostate cancer progression.
hsa-miR-509-5p		prostate cancer	down	Inhibition of invasion and migration of prostate cancer cells by miRNA-509-5p via targeting MDM2.
hsa-miR-543		prostate cancer	up	MiR-543 Promotes Proliferation and Epithelial-Mesenchymal Transition in Prostate Cancer via Targeting RKIP.
hsa-miR-30d		prostate cancer	up	MicroRNA-30d promotes angiogenesis and tumor growth via MYPT1/c-JUN/VEGFA pathway and predicts aggressive outcome in prostate cancer.
hsa-miR-22		prostate cancer	up	MTA1-activated Epi-microRNA-22 regulates E-cadherin and prostate cancer invasiveness.
hsa-miR-802		prostate cancer	down	microRNA-802 inhibits epithelial-mesenchymal transition through targeting flotillin-2 in human prostate cancer.
hsa-miR-130b		prostate cancer	down	Downregulation of miR-130b~301b cluster is mediated by aberrant promoter methylation and impairs cellular senescence in prostate cancer.
hsa-miR-466		prostate cancer	down	MicroRNA-466 inhibits tumor growth and bone metastasis in prostate cancer by direct regulation of osteogenic transcription factor RUNX2.
hsa-miR-1307		prostate cancer	up	miR-1307 promotes the proliferation of prostate cancer by targeting FOXO3A.



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hsa-miR-141		prostate cancer	down	MicroRNA-141 suppresses prostate cancer stem cells and metastasis by targeting a cohort of pro-metastasis genes.
hsa-miR-744		prostate cancer	up	MicroRNA-744 promotes prostate cancer progression through aberrantly activating Wnt/?-catenin signaling.
hsa-miR-218		prostate cancer	down	MicroRNA-218 inhibits tumor growth and increases chemosensitivity to CDDP treatment by targeting BCAT1 in prostate cancer.
hsa-miR-34b-3p		prostate cancer	down	Differential expression of miR-34b and androgen receptor pathway regulate prostate cancer aggressiveness between African-Americans and Caucasians.
hsa-miR-218		prostate cancer	down	Tumor-suppressive microRNA-218 inhibits tumor angiogenesis via targeting the mTOR component RICTOR in prostate cancer.
hsa-miR-194		prostate cancer	up	MicroRNA-194 Promotes Prostate Cancer Metastasis by Inhibiting SOCS2.
hsa-miR-130a		prostate cancer	down	Epigenetic Disruption of miR-130a Promotes Prostate Cancer By Targeting SEC23B and DEPDC1.
hsa-miR-194		prostate cancer	down	MicroRNA-194 suppresses prostate cancer migration and invasion by downregulating human nuclear distribution protein.
hsa-miR-141-3p		prostate cancer	up	MiR-141-3p promotes prostate cancer cell proliferation through inhibiting kruppel-like factor-9 expression.
hsa-miR-1271		prostate cancer	down	MiR-1271 Inhibits Cell Growth in Prostate Cancer by Targeting ERG.

mirId	Family/Cluster	Cancer	Profile	PubMed Article
hsa-miR-101		prostate cancer	down	miR-101 Enhances Cisplatin-Induced DNA Damage Through Decreasing Nicotinamide Adenine Dinucleotide Phosphate Levels by Directly Repressing Tp53-Induced Glycolysis and Apoptosis Regulator Expression in MicroRNA-590-3p promotes cell proliferation and invasion by targeting inositol polyphosphate 4-phosphatase type II in human prostate cancer cells.
hsa-miR-590-3p		prostate cancer	up	Identification of non-invasive miRNAs biomarkers for prostate cancer by deep sequencing analysis of urinary exosomes.
hsa-miR-501-3p		prostate cancer	down	Identification of non-invasive miRNAs biomarkers for prostate cancer by deep sequencing analysis of urinary exosomes.
hsa-miR-196a-5p		prostate cancer	down	Identification of non-invasive miRNAs biomarkers for prostate cancer by deep sequencing analysis of urinary exosomes.
hsa-miR-588		prostate cancer	up	MicroRNA-588 is upregulated in human prostate cancer with prognostic and functional implications.
hsa-miR-30e*		prostate cancer	up	miR-30e* is overexpressed in prostate cancer and promotes NF- $\kappa$ B-mediated proliferation and tumor growth.
hsa-miR-33a		prostate cancer	down	miR-33a is a tumor suppressor microRNA that is decreased in prostate cancer.
hsa-miR-618		prostate cancer	down	miR-618 Inhibits Prostate Cancer Migration and Invasion by Targeting FOXP2.
hsa-miR-141		prostate cancer	down	Re: MicroRNA-141 Suppresses Prostate Cancer Stem Cells and Metastasis by Targeting a Cohort of Pro-Metastasis Genes.
hsa-miR-483-5p		prostate cancer	up	miR-483-5p promotes prostate cancer cell proliferation and invasion by targeting RBM5.

mirId	Family/Cluster	Cancer	Profile	PubMed Article
hsa-miR-210-3p		prostate cancer	up	Oncogenic miR-210-3p promotes prostate cancer cell EMT and bone metastasis via NF- $\kappa$ B signaling pathway.
hsa-miR-30c		prostate cancer	down	Low expression of microRNA-30c promotes prostate cancer cells invasion involved in downregulation of KRAS protein.
hsa-miR-500		prostate cancer	up	Inhibition of microRNA-500 has anti-cancer effect through its conditional downstream target of TFPI in human prostate cancer.
hsa-miR-186		prostate cancer	down	miRNA-186 inhibits prostate cancer cell proliferation and tumor growth by targeting YY1 and CDK6.
hsa-let-7a		prostate cancer	down	MiRNAlet-7a mediates prostate cancer PC-3 cell invasion, migration by inducing epithelial-mesenchymal transition through CCR7/MAPK pathway.
hsa-miR-204		prostate cancer	down	MiR-204 enhances mitochondrial apoptosis in doxorubicin-treated prostate cancer cells by targeting SIRT1/p53 pathway.
hsa-miR-199a		prostate cancer	down	MiR-199a suppresses prostate cancer paclitaxel resistance by targeting YES1.
hsa-miR-141-3p		prostate cancer	down	Downregulation of miR-141-3p promotes bone metastasis via activating NF- $\kappa$ B signaling in prostate cancer.
hsa-miR-205-5p		prostate cancer	down	Regulation of HMGB3 by antitumor miR-205-5p inhibits cancer cell aggressiveness and is involved in prostate cancer pathogenesis.
hsa-miR-181a		prostate cancer	up	MiR-181a promotes epithelial to mesenchymal transition of prostate cancer cells by targeting TGIF2.
hsa-miR-20b		prostate cancer	up	miR-20b promotes cellular proliferation and migration by directly regulating phosphatase and tensin homolog in prostate cancer.

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hsa-miR-193a-3p		prostate cancer	down	MicroRNA-193a-3p inhibits cell proliferation in prostate cancer by targeting cyclin D1.
hsa-miR-493-5p		prostate cancer	down	c-Met, CREB1 and EGFR are involved in miR-493-5p inhibition of EMT via AKT/GSK-3 $\beta$ /Snail signaling in prostate cancer.
hsa-miR-323		prostate cancer	up	microRNA-323 upregulation promotes prostate cancer growth and docetaxel resistance by repressing p73.
hsa-miR-454		prostate cancer	up	Suppression of microRNA-454 impedes the proliferation and invasion of prostate cancer cells by promoting N-myc downstream-regulated gene 2 and inhibiting WNT/ $\beta$ -catenin signaling.
hsa-miR-486-5p		prostate cancer	up	The miR-486-5p plays a causative role in prostate cancer through negative regulation of multiple tumor suppressor pathways.
hsa-miR-129		prostate cancer	down	MiR-129 inhibits cell proliferation and metastasis by targeting ETS1 via PI3K/AKT/mTOR pathway in prostate cancer.
hsa-miR-34a		prostate cancer	down	miR-34a Regulates Expression of the Stathmin-1 Oncoprotein and Prostate Cancer Progression.
hsa-miR-615		prostate cancer	down	MiR-615 inhibits prostate cancer cell proliferation and invasion by directly targeting Cyclin D2.
hsa-miR-1246		prostate cancer	down	microRNA-1246 Is an Exosomal Biomarker for Aggressive Prostate Cancer.
hsa-miR-493-3p		prostate cancer	down	Downregulation of N6-methyladenosine binding YTHDF2 protein mediated by miR-493-3p suppresses prostate cancer by elevating N6-methyladenosine levels.

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hsa-miR-195		prostate cancer	down	miR-195 inhibits cell proliferation and angiogenesis in human prostate cancer by downregulating PRR11 expression.
hsa-miR-132		prostate cancer	down	Identification of tumor suppressive role of microRNA-132 and its target gene in tumorigenesis of prostate cancer.
hsa-miR-203		prostate cancer	down	The miR-203/SNAI2 axis regulates prostate tumor growth, migration, angiogenesis and stemness potentially by modulating GSK-3 $\beta$ -CATENIN signal pathway.
hsa-miR-503		prostate cancer	down	microRNA-503 suppresses the migration, proliferation and colony formation of prostate cancer cells by targeting tumor protein D52 like 2.
hsa-miR-1301-3p		prostate cancer	up	miR-1301-3p promotes prostate cancer stem cell expansion by targeting SFRP1 and GSK3 $\beta$ .
hsa-miR-671		prostate cancer	up	miR-671 promotes prostate cancer cell proliferation by targeting tumor suppressor SOX6.
hsa-miR-182		prostate cancer	up	MiR-182 promotes prostate cancer progression through activating Wnt/ $\beta$ -catenin signal pathway.
hsa-miR-301a		prostate cancer	up	Hyperglycaemia-induced miR-301a promotes cell proliferation by repressing p21 and Smad4 in prostate cancer.
hsa-miR-141		prostate cancer	down	miR-141 inhibits prostatic cancer cell proliferation and migration, and induces cell apoptosis via targeting of RUNX1.

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hsa-miR-133b		prostate cancer	down	Posttranscriptional Regulation of Human Antigen R by miR-133b Enhances Docetaxel Cytotoxicity Through the Inhibition of ATP-Binding Cassette Subfamily G Member 2 in Prostate Cancer Cells.
hsa-miR-491-5p		prostate cancer	down	MiR-491-5p negatively regulates cell proliferation and motility by targeting PDGFRA in prostate cancer.
hsa-miR-143		prostate cancer	down	Insulin-like growth factor-I induces chemoresistance to docetaxel by inhibiting miR-143 in human prostate cancer.
hsa-miR-185-5p		prostate cancer	down	Downregulation of miR-1266-5P, miR-185-5P and miR-30c-2 in prostatic cancer tissue and cell lines.
hsa-miR-1266-5p		prostate cancer	down	Downregulation of miR-1266-5P, miR-185-5P and miR-30c-2 in prostatic cancer tissue and cell lines.
hsa-miR-126		prostate cancer	down	MicroRNA-126 inhibits proliferation and metastasis in prostate cancer via regulation of ADAM9.
hsa-miR-206		prostate cancer	up	MicroRNA-206 regulates the epithelial-mesenchymal transition and inhibits the invasion and metastasis of prostate cancer cells by targeting Annexin A2.
hsa-miR-191		prostate cancer	up	Upregulation of miR-191 promotes cell growth and invasion via targeting TIMP3 in prostate cancer.
hsa-miR-1		prostate cancer	down	Cell-type specific expression of oncogenic and tumor suppressive microRNAs in the human prostate and prostate cancer.
hsa-miR-143		prostate cancer	down	Cell-type specific expression of oncogenic and tumor suppressive microRNAs in the human prostate and prostate cancer.

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hsa-miR-141		prostate cancer	up	Cell-type specific expression of oncogenic and tumor suppressive microRNAs in the human prostate and prostate cancer.
hsa-miR-21		prostate cancer	up	Cell-type specific expression of oncogenic and tumor suppressive microRNAs in the human prostate and prostate cancer.
hsa-miR-152		prostate cancer	down	[Circulating miR-152 helps early prediction of postoperative biochemical recurrence of prostate cancer].
hsa-miR-652		prostate cancer	up	MicroRNA-652 induces NED in LNCaP and EMT in PC3 prostate cancer cells.
hsa-miR-29c		prostate cancer	down	Up-regulated miR-29c inhibits cell proliferation and glycolysis by inhibiting SLC2A3 expression in prostate cancer.
hsa-miR-152-3p		prostate cancer	up	A Plasma Biomarker Panel of Four MicroRNAs for the Diagnosis of Prostate Cancer.
hsa-miR-17		prostate cancer	down	MiR-17 Regulates Prostate Cancer Cell Proliferation and Apoptosis Through Inhibiting JAK-STAT3 Signaling Pathway.
hsa-miR-452-5p		prostate cancer	down	Role of miR-452-5p in the tumorigenesis of prostate cancer: A study based on the Cancer Genome Atl(TCGA), Gene Expression Omnibus (GEO), and bioinformatics analysis.
hsa-miR-206		prostate cancer	down	MiR-206 inhibits proliferation and migration of prostate cancer cells by targeting CXCL11.
hsa-miR-1180		prostate cancer	down	MicroRNA-1180 is associated with growth and apoptosis in prostate cancer via TNF receptor associated factor 1 expression regulation and nuclear factor-?B signaling pathway activation.

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hsa-miR-211		prostate cancer	down	MicroRNA-211 suppresses prostate cancer proliferation by targeting SPARC.
hsa-miR-144-3p		prostate cancer	down	MicroRNA-144-3p inhibits cell proliferation and induces cell apoptosis in prostate cancer by targeting CEP55.
hsa-miR-146b		prostate cancer	up	MiR-146b inhibits autophagy in prostate cancer by targeting the PTEN/Akt/mTOR signaling pathway.
hsa-miR-1266-5p		prostate cancer	down	miR-1266-5p and miR-185-5p Promote Cell Apoptosis in Human Prostate Cancer Cell Lines
hsa-miR-185-5p		prostate cancer	down	miR-1266-5p and miR-185-5p Promote Cell Apoptosis in Human Prostate Cancer Cell Lines
hsa-miR-202		prostate cancer	down	miR-202 suppresses prostate cancer growth and metastasis by targeting PIK3CA.
hsa-miR-133a-3p		prostate cancer	down	Downregulation of miR-133a-3p promotes prostate cancer bone metastasis via activating PI3K/AKT signaling.
hsa-miR-205-5p		prostate cancer	down	miR-205-5p inhibits cell migration and invasion in prostatic carcinoma by targeting ZEB1.
hsa-miR-99a		prostate cancer	down	Expression of microRNA-99a-3p in Prostate Cancer Based on Bioinformatics Data and Meta-Analysis of a Literature Review of 965 Cases.
hsa-miR-410-3p		prostate cancer	down	miR-410-3p promotes prostate cancer progression via regulating PTEN/AKT/mTOR signaling pathway.
hsa-miR-139-5p		prostate cancer	down	MicroRNA-139-5P inhibits human prostate cancer cell proliferation by targeting Notch1.
hsa-miR-519d		prostate cancer	down	MiR-519d inhibits prostate cancer cell proliferation, cycle and invasion via targeting NRBP1.



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hsa-miR-1		prostate cancer	down	Overexpression of MicroRNA-1 in Prostate Cancer Cells Modulates the Blood Vessel System of an In Vivo Hen's Egg Test-Chorioallantoic Membrane Model.
hsa-miR-150		prostate cancer	down	MicroRNA-150 suppresses epithelial-mesenchymal transition, invasion, and metastasis in prostate cancer through the TRPM4-mediated $\beta$ -catenin signaling pathway.
hsa-miR-139-5p		prostate cancer	down	Downregulation of miR-139-5p promotes prostate cancer progression through regulation of SOX5.
hsa-miR-1		prostate cancer	down	MiR-1 inhibits prostate cancer PC3 cells proliferation through the Akt/mTOR signaling pathway by binding to c-Met.
hsa-miR-192		prostate cancer	up	miR-192 Is Overexpressed and Promotes Cell Proliferation in Prostate Cancer.
hsa-miR-93		prostate cancer	up	Molecular mechanism and role of microRNA-93 in human cancers: A study based on bioinformatics analysis, meta-analysis, and quantitative polymerase chain reaction validation.
hsa-miR-373-3p		prostate cancer	down	MicroRNA-373-3p inhibits prostate cancer progression by targeting AKT1.
hsa-miR-10a		prostate cancer	down	MiR-10a functions as a tumor suppressor in prostate cancer via targeting KDM4A.
hsa-miR-221		prostate cancer	up	The correlation between microRNA-221/222 cluster overexpression and malignancy: an updated meta-analysis including 2693 patients.
hsa-miR-222		prostate cancer	up	The correlation between microRNA-221/222 cluster overexpression and malignancy: an updated meta-analysis including 2693 patients.

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hsa-miR-34a		prostate cancer	down	Modulation of miR-34a in curcumin-induced antiproliferation of prostate cancer cells.
hsa-miR-301b-3p		prostate cancer	up	Hypoxia induced microRNA-301b-3p overexpression promotes proliferation, migration and invasion of prostate cancer cells by targeting LRP1B.
hsa-miR-708		prostate cancer	down	Relevance function of microRNA-708 in the pathogenesis of cancer.
hsa-miR-488		prostate cancer	down	MicroRNA-488 inhibits proliferation and glycolysis in human prostate cancer cells by regulating PFKFB3.
hsa-miR-214-5p		prostate cancer	down	miR-214-5p inhibits human prostate cancer proliferation and migration through regulating CRMP5.
hsa-miR-608		prostate cancer	down	Nonconserved miR-608 suppresses prostate cancer progression through RAC2/PAK4/LIMK1 and BCL2L1/caspase-3 pathways by targeting the 3'-UTRs of RAC2/BCL2L1 and the coding region of PAK4.
hsa-miR-191		prostate cancer	up	Upregulation of microRNA-191 can serve as an independent prognostic marker for poor survival in prostate cancer.
hsa-miR-628		prostate cancer	down	miR-628 reduces prostate cancer proliferation and invasion via the FGFR2 signaling pathway.
hsa-miR-183-3p		prostate cancer	down	microRNA-183-3p Inhibits Progression of Human Prostate Cancer by Downregulating High-Mobility Group Nucleosome Binding Domain 5.
hsa-miR-140		prostate cancer	down	MicroRNA-140 inhibit prostate cancer cell invasion and migration by targeting YES proto-oncogene 1.

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hsa-miR-139		prostate cancer	down	MicroRNA-139 is a predictor of prostate cancer recurrence and inhibits growth and migration of prostate cancer cells through cell cycle arrest and targeting IGF1R and AXL.
hsa-miR-193b		prostate cancer	down	Methylation-associated miR-193b silencing activates master drivers of aggressive prostate cancer.
hsa-miR-129-5p		prostate cancer	down	miR-129-5p inhibits prostate cancer proliferation via targeting ETV1.
hsa-miR-15a-3p		prostate cancer	down	miR-15a-3p Suppresses Prostate Cancer Cell Proliferation and Invasion by Targeting SLC39A7 Via Downregulating Wnt/?-Catenin Signaling Pathway.
hsa-miR-9-5p		prostate cancer	up	Inhibition of miR-9-5p suppresses prostate cancer progress by targeting StarD13.
hsa-miR-500		prostate cancer	up	miR-500 promotes cell proliferation by directly targetting LRP1B in prostate cancer.
hsa-miR-493		prostate cancer	up	miR-493 Promotes Prostate Cancer Cells Proliferation by Targeting PHLPP2 and Activating Akt Signaling Pathway.
hsa-miR-34a		prostate cancer	down	Replication Study: The microRNA miR-34a inhibits prostate cancer stem cells and metastasis by directly repressing CD44.
hsa-miR-582-3p		prostate cancer	down	miR-582-3p and miR-582-5p Suppress Prostate Cancer Metastasis to Bone by Repressing TGF-? Signaling.
hsa-miR-582-5p		prostate cancer	down	miR-582-3p and miR-582-5p Suppress Prostate Cancer Metastasis to Bone by Repressing TGF-? Signaling.

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hsa-miR-200a		prostate cancer	down	MicroRNA-200a suppresses prostate cancer progression through BRD4/AR signaling pathway.
hsa-miR-515-5p		prostate cancer	down	MiR-515-5p acts as a tumor suppressor via targeting TRIP13 in prostate cancer.
hsa-miR-744		prostate cancer	up	Oncogenic miR-744 promotes prostate cancer growth through direct targeting of LKB1.
hsa-miR-135a		prostate cancer	down	MicroRNA-135a induces prostate cancer cell apoptosis via inhibition of STAT6.
hsa-miR-338-3p		prostate cancer	down	miR-338-3p targets RAB23 and suppresses tumorigenicity of prostate cancer cells.
hsa-miR-106a		prostate cancer	up	miR-106a contributes to prostate carcinoma progression through PTEN.
hsa-miR-137		prostate cancer	down	Downregulated NOX4 underlies a novel inhibitory role of microRNA-137 in prostate cancer.
hsa-miR-501-3p		prostate cancer	down	MicroRNA-501-3p restricts prostate cancer growth through regulating cell cycle-related and expression-elevated protein in tumor/cyclin D1 signaling.
hsa-miR-107		prostate carcinoma	down	Dysregulation of the mitogen granulin in human cancer through the miR-15/107 microRNA gene group.
hsa-miR-195		prostate carcinoma	down	MicroRNA-195 suppresses tumor cell proliferation and metastasis by directly targeting BCOX1 in prostate carcinoma.
hsa-miR-125a-5p		prostate carcinoma	up	MicroRNA-125a-5p regulates cancer cell proliferation and migration through NAIF1 in prostate carcinoma.

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hsa-miR-338-3p		prostate carcinoma	down	microRNA-205 and microRNA-338-3p Reduces Cell Apoptosis in Prostate Carcinoma Tissue and LNCaP Prostate Carcinoma Cells by Directly Targeting the B-Cell Lymphoma 2 (Bcl-2) Gene.
hsa-miR-205		prostate carcinoma	down	microRNA-205 and microRNA-338-3p Reduces Cell Apoptosis in Prostate Carcinoma Tissue and LNCaP Prostate Carcinoma Cells by Directly Targeting the B-Cell Lymphoma 2 (Bcl-2) Gene.
hsa-miR-199a-5p		prostate adenocarcinoma	down	Downregulation of miR-199a-5p promotes prostate adenocarcinoma progression through loss of its inhibition of HIF-1?.