

Table S1. Genes with experimental evidence of control by Sp transcription factors and implication in prostate cancer development according to analysis of recent literature

Gene simbol	Gene ID	References	
		Control by Sp1	Implication in PCa
VEGFA	7422	(1, 2)	(3)
MYC	4609	(4)	(5, 6)
C-SRC	6714	(7)	(6, 8)
hTERT	7015	(9)	(10)
MCL1	4170	(11)	(12)
CCND1	595	(13)	(14)
CCNE1	898	(15)	(16)
CLDN4	1364	(17)	(18)
BIRC5	332	(19)	(20)
XIAP	331	(21)	(22)
MMP14	4323	(23)	(23)
C-FOS	2353	(24)	(25)
AR	367	(26, 27)	(27)
KLK3	354	(28)	(28)

References

1. Shi Q, Le X, Abbruzzese JL, et al. Constitutive Sp1 activity is essential for differential constitutive expression of vascular endothelial growth factor in human pancreatic adenocarcinoma. *Cancer Res* 2001;61:4143-54.
2. Abdelrahim M, Smith R, 3rd, Burghardt R, Safe S. Role of Sp proteins in regulation of vascular endothelial growth factor expression and proliferation of pancreatic cancer cells. *Cancer Res* 2004;64:6740-9.
3. Yao JL, Ryan CK, Francis CW, Kohli M, Taubman MB, Khorana AA. Tissue factor and VEGF expression in prostate carcinoma: a tissue microarray study. *Cancer Invest* 2009;27:430-4.
4. Parisi F, Wirapati P, Naef F. Identifying synergistic regulation involving c-Myc and sp1 in human tissues. *Nucleic Acids Res* 2007;35:1098-107.
5. Nagy B, Szendroi A, Romics I. Overexpression of CD24, c-myc and Phospholipase 2A in Prostate Cancer Tissue Samples Obtained by Needle Biopsy. *Pathol Oncol Res* 2009;15:279-83.
6. Creighton CJ. Multiple oncogenic pathway signatures show coordinate expression patterns in human prostate tumors. *PLoS ONE* 2008;3:e1816.

7. Ritchie S, Boyd FM, Wong J, Bonham K. Transcription of the human c-Src promoter is dependent on Sp1, a novel pyrimidine binding factor SPy, and can be inhibited by triplex-forming oligonucleotides. *J Biol Chem* 2000;275:847-54.
8. Lara PN, Jr., Longmate J, Evans CP, et al. A phase II trial of the Src-kinase inhibitor AZD0530 in patients with advanced castration-resistant prostate cancer: a California Cancer Consortium study. *Anticancer Drugs* 2009;20:179-84.
9. Bermudez Y, Yang H, Saunders BO, Cheng JQ, Nicosia SV, Kruk PA. VEGF- and LPA-induced telomerase in human ovarian cancer cells is Sp1-dependent. *Gynecol Oncol* 2007;106:526-37.
10. Tang J, Wang Z, Li X, Li J, Shi H. Human telomerase reverse transcriptase expression correlates with vascular endothelial growth factor-promoted tumor cell proliferation in prostate cancer. *Artif Cells Blood Substit Immobil Biotechnol* 2008;36:83-93.
11. Townsend KJ, Zhou P, Qian L, et al. Regulation of MCL1 through a serum response factor/Elk-1-mediated mechanism links expression of a viability-promoting member of the BCL2 family to the induction of hematopoietic cell differentiation. *J Biol Chem* 1999;274:1801-13.
12. Cavarretta IT, Neuwirt H, Zaki MH, et al. Mcl-1 is regulated by IL-6 and mediates the survival activity of the cytokine in a model of late stage prostate carcinoma. *Adv Exp Med Biol* 2008;617:547-55.
13. Castro-Rivera E, Samudio I, Safe S. Estrogen regulation of cyclin D1 gene expression in ZR-75 breast cancer cells involves multiple enhancer elements. *J Biol Chem* 2001;276:30853-61.
14. Bonci D, Coppola V, Musumeci M, et al. The miR-15a-miR-16-1 cluster controls prostate cancer by targeting multiple oncogenic activities. *Nat Med* 2008;14:1271-7.
15. Kim S, Kang JK, Kim YK, et al. Histone deacetylase inhibitor apicidin induces cyclin E expression through Sp1 sites. *Biochem Biophys Res Commun* 2006;342:1168-73.
16. Hashimoto Y, Naruyama H, Ando R, Okada S, Tozawa K, Kohri K. [Molecular targeted therapy for prostate cancer]. *Hinyokika Kyo* 2008;54:57-61.
17. Honda H, Pazin MJ, Ji H, Wernyj RP, Morin PJ. Crucial roles of Sp1 and epigenetic modifications in the regulation of the CLDN4 promoter in ovarian cancer cells. *J Biol Chem* 2006;281:21433-44.
18. Landers KA, Samarantunga H, Teng L, et al. Identification of claudin-4 as a marker highly overexpressed in both primary and metastatic prostate cancer. *Br J Cancer* 2008;99:491-501.
19. Chun JY, Hu Y, Pinder E, Wu J, Li F, Gao AC. Selenium inhibition of survivin expression by preventing Sp1 binding to its promoter. *Mol Cancer Ther* 2007;6:2572-80.
20. Hansen JB, Fisker N, Westergaard M, et al. SPC3042: a proapoptotic survivin inhibitor. *Mol Cancer Ther* 2008;7:2736-45.
21. Lee TJ, Jung EM, Lee JT, et al. Mithramycin A sensitizes cancer cells to TRAIL-mediated apoptosis by down-regulation of XIAP gene promoter through Sp1 sites. *Mol Cancer Ther* 2006;5:2737-46.
22. Seligson DB, Hongo F, Huerta-Yepez S, et al. Expression of X-linked inhibitor of apoptosis protein is a strong predictor of human prostate cancer recurrence. *Clin Cancer Res* 2007;13:6056-63.
23. Sroka IC, Nagle RB, Bowden GT. Membrane-type 1 matrix metalloproteinase is regulated by sp1 through the differential activation of AKT, JNK, and ERK pathways in human prostate tumor cells. *Neoplasia* 2007;9:406-17.
24. Duan R, Porter W, Safe S. Estrogen-induced c-fos protooncogene expression in MCF-7 human breast cancer cells: role of estrogen receptor Sp1 complex formation. *Endocrinology* 1998;139:1981-90.

25. Ouyang X, Jessen WJ, Al-Ahmadie H, et al. Activator protein-1 transcription factors are associated with progression and recurrence of prostate cancer. *Cancer Res* 2008;68:2132-44.
26. Wei S, Yang J, Lee SL, Kulp SK, Chen CS. PPARgamma-independent antitumor effects of thiazolidinediones. *Cancer Lett* 2009;276:119-24.
27. Husbeck B, Bhattacharyya RS, Feldman D, Knox SJ. Inhibition of androgen receptor signaling by selenite and methylseleninic acid in prostate cancer cells: two distinct mechanisms of action. *Mol Cancer Ther* 2006;5:2078-85.
28. Shin T, Sumiyoshi H, Matsuo N, et al. Sp1 and Sp3 transcription factors upregulate the proximal promoter of the human prostate-specific antigen gene in prostate cancer cells. *Arch Biochem Biophys* 2005;435:291-302.