

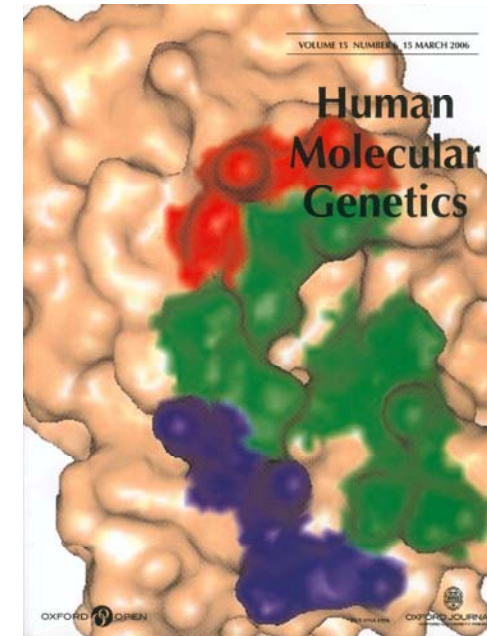
## ANDROGEN RECEPTOR INTERACTING PROTEINS AND COREGULATORS TABLE

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### Table Legend:

**Gene:** Official symbol with hyperlink to NCBI Entrez Gene entry  
**Protein:** Protein name  
**Preferred Name:** NCBI Entrez Gene preferred name and alternate names  
**Function:** General protein function, categorized as in Heemers HV and Tindall DJ. Endocrine Reviews 28: 778-808, 2007.  
**Coregulator:** CoA, coactivator; coR, corepressor; -, not reported/no effect  
**Interactn:** Type of interaction. Direct, interacts directly with androgen receptor (AR); indirect, indirect interaction; -, not reported  
**Domain:** Interacts with specified AR domain. FL-AR, full-length AR; NTD, N-terminal domain; DBD, DNA-binding domain; h, hinge; LBD, ligand-binding domain; C-term, C-terminal; -, not reported  
**References:** Selected references with hyperlink to PubMed abstract. Note: Due to space limitations, all references for each AR-interacting protein/coregulator could not be cited. The reader is advised to consult PubMed for additional references.  
**Also known as:** Alternate gene names



Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">AATF</a>	AATF/Che-1	apoptosis antagonizing transcription factor	cell cycle regulator	coA	direct	FL-AR	<a href="#">Leister P et al. Signal Transduction 3:17-25, 2003</a> <a href="#">Burgdorf S et al. J Biol Chem 279:17524-17534, 2004</a>	DED; CHE1; CHE-1; AATF
<a href="#">ACTB</a>	actin, beta	actin, cytoplasmic 1; actin, beta	cytoskeletal protein	coA	-	-	<a href="#">Ting HJ et al. Biochem Biophys Res Commun 319:393-396, 2004</a>	PS1TP5BP1; ACTB
<a href="#">ACTN2</a>	a-actinin-2	actinin, alpha 2	cytoskeletal protein	coA	indirect	-	<a href="#">Huang SM et al. J Mol Endocrinol 32:481-496, 2004</a>	CMD1AA; ACTN2
<a href="#">ACTN4</a>	a-actinin-4	actinin, alpha 4	cytoskeletal protein	coA/coR	-	-	<a href="#">Jasavala R et al. Mol Cell Proteomics 6:252-271, 2007</a>	FSGS; FSGS1; ACTININ-4; DKFZp686K2315 8; ACTN4
<a href="#">ADAM10</a>	ADAM-10	disintegrin and metalloproteinase domain-containing protein 10	other function	-	direct	-	<a href="#">Arima T et al. Cancer Sci 98:1720-1726, 2007</a>	kuz; AD10; MADM; CD156c; HsT18717; ADAM10
<a href="#">AES</a>	AES	amino-terminal enhancer of split	nuclear receptor coregulator	coR	direct	NTD	<a href="#">Yu X et al. Mol Cell Biol 21:4614-4625, 2001</a>	AES-1, AES-2, ESP1, GRG, GRG5, TLE5
<a href="#">AHR</a>	aryl hydrocarbon receptor	aryl hydrocarbon receptor	transcription factor	coA/coR	direct	-	<a href="#">Ohtake F et al. Nature 446:562-566, 2007</a> <a href="#">Ohtake F et al. Biochem Pharmacol 77:474-484, 2009</a>	bHLHe76; AHR
<a href="#">AKT1</a>	Akt	AKT1 kinase	kinase/ phosphatase	coR	direct	-	<a href="#">Lin HK et al. Proc Natl Acad Sci U S A 98:7200-7205, 2001</a> <a href="#">Yang L et al. J Biol Chem 278:16820-16827, 2003</a>	AKT, MGC99656, PKB, PKB-ALPHA, PRKBA, RAC, RAC-ALPHA
<a href="#">ANP32A</a>	pp32	acidic (leucine-rich) nuclear phosphoprotein 32 family, member A	cell cycle regulator	coA	direct	-	<a href="#">Adegbola O and Pasternack GR, Biochem Biophys Res Commun 334:702-708, 2005</a>	LANP; MAPM; PP32; PHAP1; PHAPI; I1PP2A; C15orf1; MGC119787; MGC150373; ANP32A
<a href="#">APPBP2</a>	ARA67/PAT1/ APPBP	amyloid beta precursor protein-binding protein 2	cytoskeletal protein	coR	direct	NTD, LBD, DBD	<a href="#">Zhang Y et al. Mol Cell Biol 24:1044-1057, 2004</a>	PAT1; HS.84084; KIAA0228; APPBP2
<a href="#">APPL1</a>	APPL	adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1	endocytosis	coR	indirect	-	<a href="#">Yang L et al. J Biol Chem 278:16820-16827, 2003</a>	APPL; DIP13alpha; APPL1

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">AR</a>	AR	androgen receptor	transcription factor	-	direct	NTD, DBD, LBD	<a href="#">He B and Wilson EM Mol Cell Biol 23:2135-2150, 2003</a> <a href="#">He B et al. Mol Cell 16:425-438, 2004</a> <a href="#">Centenera MM et al. Mol Endocrinol 22:2373-2382, 2008</a>	KD; AIS; TFM; DHTR; SBMA; HYSP1; NR3C4; SMAX1; HUMARA; AR
<a href="#">ARHGDI</a>	Rho GDIalpha	Rho GDP dissociation inhibitor (GDI) alpha	signal integrator/transducer, scaffold or adaptor	coA	-	-	<a href="#">Su LF et al. J Biol Chem 276:3231-3237, 2001</a>	GDIA1; RHOGDI; RHOGDI-1; MGC117248; ARHGDI
<a href="#">ARID1A</a>	ARID1A/hOsa1/B AF250	AT rich interactive domain 1A; OSA1 nuclear protein; BRG1-associated factor 250a	chromatin remodeling complex component	coA	-	-	<a href="#">Inoue H et al. J Biol Chem 277:41674-41685, 2002</a>	B120; P270; BM029; BAF250; C1orf4; BAF250a; SMARCF1; ARID1A
<a href="#">ARID1B</a>	hOsa2	AT-rich interactive domain-containing protein 1B	chromatin remodeling complex component	coA	-	-	<a href="#">Inoue H et al. J Biol Chem 277:41674-41685, 2002</a>	OSA2; 6A3-5; DAN15; P250R; BRIGHT; BAF250B; ELD/OSA1; KIAA1235; RP11-419L10.1; ARID1B
<a href="#">ARID5A</a>	MRF1	AT rich interactive domain 5A; modulator recognition factor I	nuclear receptor coregulator	coR	direct	-	<a href="#">Georgescu SP et al. Mol Endocrinol 19:2491-2501, 2005</a>	MRF1; MRF-1; RP11-363D14; ARID5A
<a href="#">ARRB2</a>	$\beta$ -arrestin2	beta-arrestin-2; arrestin 3	other function	coR	direct	-	<a href="#">Lakshmikanthan V et al. Proc Natl Acad Sci U S A 106:9379-9384, 2009</a>	ARB2; ARR2; BARR2; DKFZp686L0365; ARRB2
<a href="#">ATAD2</a>	ANCCA/ATAD2	ATPase family AAA domain-containing protein 2; AAA nuclear coregulator cancer-associated protein	other function	coA	direct	DBDh	<a href="#">Zou JX et al. Cancer Res 69:3339-3346, 2009</a>	ANCCA; MGC5254; PRO2000; MGC29843; MGC131938; MGC142216; DKFZp667N1320; ATAD2
<a href="#">ATF2</a>	ATF2	activation transcription factor 2	transcription factor	coR	direct	DBD	<a href="#">Jorgensen JS and Nilson JH, Mol Endocrinol 15:1496-1504, 2001</a>	HB16; CREB2; TREB7; CREBP1; MGC111558; ATF2

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">ATXN7L3</a>	ATXN7L3	ataxin-7-like protein 3	other function	coA	direct	-	<a href="#">Zhao Y et al. Mol Cell 29:92-101, 2008</a>	DKFZp761G2113; ATXN7L3
<a href="#">BAG1</a>	Bag-1L	BCL2-associated athanogene; BAG-1 long	chaperone/ cochaperone	coA	direct	-	<a href="#">Froesch BA et al. J Biol Chem 273:11660-11666, 1998</a> <a href="#">Shatkina L et al. Mol Cell Biol 23:7189-7197, 2003</a>	RAP46; BAG1
<a href="#">BRCA1</a>	BRCA1	breast cancer 1, early onset	DNA repair	coA	direct	NTD, C-term	<a href="#">Park JJ et al. Cancer Res 60:5946-5949, 2000</a> <a href="#">Yeh S et al. Proc Natl Acad Sci U S A 97:11256-11261, 2000</a>	IRIS; PSCP; BRCA1; BRCC1; RNF53; BROVCA1; BRCA1
<a href="#">BRCA2</a>	BRCA2	breast cancer 2, early onset	DNA repair	coA	direct	NTD, hLBD, LBD	<a href="#">Shin S and Verma IM, Proc Natl Acad Sci U S A 100:7201-7206, 2003</a>	FAD; FACD; FAD1; GLM3; BRCC2; FANCB; FANCD; FANCD1; BROVCA2; BRCA2
<a href="#">BRD7</a>	bromodomain containing 7	bromodomain-containing protein 7; bromodomain-containing 7	chromatin remodeling complex component	coR	-	-	<a href="#">Kikuchi M et al. Biochim Biophys Acta 1793:1828-1836, 2009</a>	BP75; NAG4; CELTIX1; BRD7
<a href="#">BRD8</a>	p120beta	bromodomain-containing protein 8; thyroid hormone receptor coactivating protein of 120 kDa	other function	coA	direct	LBD	<a href="#">Yoshino M et al. Reprod Biol Endocrinol 4:50, 2006</a> <a href="#">Hosoya T et al. Endocr J 55:657-665, 2008</a>	SMAP; p120; SMAP2; BRD8
<a href="#">CALCOCO1</a>	CoCoA	coiled-coil transcriptional coactivator	nuclear receptor coregulator	coA	indirect	-	<a href="#">Yang CK et al. J Biol Chem 281:3389-3397, 2006</a>	Cocoa; PP13275; KIAA1536; calphoglin; CALCOCO1
<a href="#">CALM1</a>	calmodulin 1		other function	-	direct	NTD	<a href="#">Cifuentes E et al. Proc Natl Acad Sci U S A 101:464-469, 2004</a> <a href="#">Pelley RP et al. Cancer Res 66:11754-11762, 2006</a>	
<a href="#">CALR</a>	calreticulin	calreticulin	other function	coR	direct	DBD	<a href="#">Dedhar S et al. Nature 367:480-483, 1994</a>	RO; CRT; SSA; cC1qR; FLJ26680; CALR
<a href="#">CARM1</a>	CARM1/PRMT5	coactivator-associated arginine methyltransferase 1; protein arginine N-methyltransferase 4	histone histone methyltransferase / demethylase	coA	indirect	-	<a href="#">Chen D et al. Science 284:2174-2177, 1999</a> <a href="#">Majumder S et al. Prostate 66:1292-1301, 2006</a> <a href="#">Hosohata K et al. Mol Cell Biol 23:7019-7029, 2003</a>	PRMT4; CARM1
<a href="#">CASP1</a>	caspase 1	caspase-1	regulates apoptosis	-	direct	-	<a href="#">Wellington CL et al. J Biol Chem 273:9158-9167, 1998</a>	ICE; P45; IL1BC; CASP1

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">CASP3</a>	caspase 3	caspase-3	regulates apoptosis	-	direct	-	<a href="#">Wellington CL et al. J Biol Chem 273:9158-9167, 1998</a>	CPP32; SCA-1; CPP32B; CASP3
<a href="#">CASP7</a>	caspase 7	caspase-7	regulates apoptosis	-	direct	-	<a href="#">Wellington CL et al. J Biol Chem 273:9158-9167, 1998</a>	MCH3; CMH-1; ICE-LAP3; CASP7
<a href="#">CASP8</a>	caspase 8	caspase-8	regulates apoptosis	coR	direct	NTD,LBD	<a href="#">Qi W et al. Embo J 26:65-75, 2007</a>	CAP4; MACH; MCH5; FLICE; ALPS2B; Casp-8; FLJ17672; MGC78473; CASP8
<a href="#">CAV1</a>	caveolin-1	caveolin 1	endocytosis	coA	direct	NTD, LBD	<a href="#">Lu ML et al. J Biol Chem 276:13442-13451, 2001</a>	CAV; CGL3; BSCL3; VIP21; MSTP085; CAV1
<a href="#">CCND1</a>	cyclin D1	cyclin D1	cell cycle regulator	coR	direct	NTD, DBD-LBD	<a href="#">Knudsen KE et al. Cancer Res 59:2297-2301, 1999</a> <a href="#">Reutens AT et al. Mol Endocrinol 15:797-811, 2001</a> <a href="#">Petre-Draviam CE et al. Cancer Res 63:4903-4913, 2003</a> <a href="#">Burd CJ et al. Mol Endocrinol 19:607-620, 2005</a> <a href="#">Petre-Draviam CE et al. Oncogene 24:431-444, 2005</a> <a href="#">Petre CE et al. J Biol Chem 277:2207-2215, 2002</a>	BCL1; PRAD1; U21B31; D11S287E; CCND1
<a href="#">CCND3</a>	cyclin D3	G1/S-specific cyclin-D3	cell cycle regulator	coR	direct	-	<a href="#">Knudsen KE et al. Cancer Res 59:2297-2301, 1999</a> <a href="#">Zong H et al. Mol Cell Biol 27:7125-7142, 2007</a> <a href="#">Olshavsky NA et al. Oncogene 27:3111-3121, 2008</a>	CCND3
<a href="#">CCNE1</a>	cyclin E1	cyclin E1	cell cycle regulator	coA	direct	NTD	<a href="#">Yamamoto A et al. J Cell Biol 150:873-880, 2000</a>	CCNE; CCNE1
<a href="#">CCNH</a>	cyclin H	cyclin-H	cell cycle regulator	coA	direct	NTD	<a href="#">Lee DK et al. J Biol Chem 275:9308-9313, 2000</a>	CAK; p34; p37; CCNH
<a href="#">CDC25A</a>	cdc25A	M-phase inducer phosphatase 1; cell division cycle 25A	kinase/ phosphatase	coR	direct	-	<a href="#">Chiu YT et al. J Mol Biol 385:446-456, 2009</a>	CDC25A2; CDC25A
<a href="#">CDC25B</a>	cdc25B	cell division cycle 25B	cell cycle regulator	coA	direct	-	<a href="#">Ma ZQ et al. Mol Cell Biol 21:8056-8067, 2001</a> <a href="#">Ngan ES et al. Oncogene 22:734-739, 2003</a> <a href="#">Chua SS et al. Vitam Horm 68:231-256, 2004</a>	CDC25B
<a href="#">CDC37</a>	cdc37	cell division cycle 37 protein	chaperone/ cochaperone	coA	direct	LBD	<a href="#">Rao J et al. J Biol Chem 276:5814-5820, 2001</a> <a href="#">Gray PJ, Jr. et al. Cancer Res 67:11942-11950, 2007</a>	P50CDC37; CDC37
<a href="#">CDK11A</a>	CDK11p110	cell division protein kinase 11A; PITSLRE serine/threonine-protein kinase CDC2L2	cell cycle regulator	coA	-	-	<a href="#">Zong H et al. Mol Cell Biol 27:7125-7142, 2007</a>	CDC2L2; CDC2L3; p58GTA; PITSLRE; CDK11-p46; CDK11-p58; MGC131975; CDK11-p110; CDK11A

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">CDK11B</a>	CDK11p58	cell division protein kinase 11B; PITSLRE serine/threonine-protein kinase CDC2L1	cell cycle regulator	coR	direct	NTD	<a href="#">Zong H et al. Mol Cell Biol 27:7125-7142, 2007</a>	p58; PK58; CDK11; CLK-1; CDC2L1; CDC2L2; FLJ59152; p58CLK-1; CDK11-p46; CDK11-p58; p58CDC2L1; CDK11-p110; CDK11B
<a href="#">CDK2AP1</a>	cdk2ap1	cyclin-dependent kinase 2-associated protein 1; CDK2-associated protein 1	kinase/ phosphatase	coA	-	-	<a href="#">Zolochevska O and Figueiredo ML Prostate 69:1586-1597, 2009</a>	DOC1; ST19; DORC1; doc-1; p12DOC-1; CDK2AP1
<a href="#">CDK6</a>	cyclin dependent kinase6	cyclin-dependent kinase 6	cell cycle regulator	coA	direct	-	<a href="#">Lim JT et al. Proc Natl Acad Sci USA 102:5156-5161, 2005</a>	PLSTIRE; MGC59692; CDK6
<a href="#">CDK7</a>	cyclin dependent kinase 7	cyclin-dependent kinase 7	cell cycle regulator	coA	direct	NTD	<a href="#">Lee DK et al. J Biol Chem 275:9308-9313, 2000</a>	CAK1; MO15; STK1; CDKN7; p39MO15; CDK7
<a href="#">CDK9</a>	PITALRE	cyclin-dependent kinase 9; serine/threonine protein kinase PITALRE	cell cycle regulator	no effect of wt	direct	NTD-DBD	<a href="#">Lee DK et al. J Biol Chem 276:9978-9984, 2001</a>	TAK; C-2k; CTK1; CDC2L4; PITALRE; CDK9
<a href="#">CEBPA</a>	c/EBPa	CCAAT/enhancer binding protein alpha	transcription factor	coR	direct	NTD, DBDh	<a href="#">Chattopadhyay S et al. Mol Endocrinol 20:984-995, 2006</a>	CEBP; C/EBP-alpha; CEBPA
<a href="#">Cmtm2a</a>	ARR19	CKLF-like MARVEL transmembrane domain-containing protein 2A; chemokine-like factor super family 2A; (androgen receptor corepressor of 19 kDa)	nuclear receptor coregulator	coR	direct	DBDh	<a href="#">Jeong BC et al. Mol Endocrinol 18:13-25, 2004</a> <a href="#">Li T et al. Int J Biochem Cell Biol 38:420-429, 2006</a>	C32; Cklf; ARR19; CKLF3; CKLF4; CKLF5; Cklf1; UCK-1; AI449770; Cklfsf2a; Cklfsf2-1b; 1700001K04Rik; 1700041N15Rik; 1700063K20Rik; Cmtm2a
<a href="#">Cmtm2b</a>	Cmtm2b	CKLF-like MARVEL transmembrane domain-containing protein 2B; chemokine-like factor super family 2B	nuclear receptor coregulator	coA	-	-	<a href="#">Li T et al. Int J Biochem Cell Biol 38:420-429, 2006</a>	Cklfsf22; Cklfsf2b; 1700013O04Rik; Cmtm2b

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<a href="#">CMTM3</a>	CMTM3	CKLF-like MARVEL transmembrane domain-containing protein 3; chemokine-like factor superfamily member 3	nuclear receptor coregulator	coR	-	-	<a href="#">Wang Y et al. Biochem Biophys Res Commun 371:54-58, 2008</a>	BNAS2; CKLFSF3; FLJ31762; MGC51956; CMTM3
<a href="#">COBRA1</a>	COBRA1	negative elongation factor B; cofactor of BRCA1	other function	coR	direct	LBD	<a href="#">Sun J et al. J Steroid Biochem Mol Biol 107:131-139, 2007</a>	NELFB; NELF-B; KIAA1182; DKFZp586B0519; RP13-122B23.3; COBRA1
<a href="#">COPS2</a>	alien	COP9 constitutive photomorphogenic homolog subunit 2	nuclear receptor coregulator	coR	direct	NTD	<a href="#">Moehren U et al. Mol Endocrinol 21:1039-1048, 2007</a>	ALIEN, CSN2, SGN2, TRIP15
<a href="#">COPS5</a>	Jab1/CSN5	COP9 signalosome complex subunit 5; jun activation domain-binding protein 1	signal integrator/transducer, scaffold or adaptor	coA	-	-	<a href="#">Chauchereau A et al. J Biol Chem 275:8540-8548, 2000</a> <a href="#">Berndt K et al. Mol Cell Biochem 307:265-271, 2008</a>	CSN5; JAB1; SGN5; MOV-34; MGC3149; COPS5
<a href="#">COX5B</a>	COXVb	cytochrome c oxidase subunit Vb	other function	-	direct	NTD, FL-AR	<a href="#">Beauchemin AM et al. Brain Res Bull 56:285-297, 2001</a>	COXVB; COX5B
<a href="#">CREBBP</a>	CBP	CREB binding protein	histone acetyltransferase/deacetylase	coA	direct	NTD-DBD	<a href="#">Aarnisalo P et al. Proc Natl Acad Sci USA 95:2122-2127, 1998</a> <a href="#">Fu M et al. J Biol Chem 275:20853-20860, 2000</a> <a href="#">Kang Z et al. Mol Endocrinol 18:2633-2648, 2004</a>	CBP; RSTS; KAT3A; CREBBP
<a href="#">CTDSP2</a>	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 2	nuclear LIM interactor-interacting factor 2; small CTD phosphatase 2	kinase/phosphatase	coR	direct	NTD	<a href="#">Thompson J et al. EMBO J 25:2757-2767, 2006</a>	OS4; PSR2; SCP2; CTDSP2
<a href="#">CTNNB1</a>	b-catenin	beta-catenin	signal integrator/transducer, scaffold or adaptor	coA	direct	DBD, DBD-LBD, LBD	<a href="#">Truica CI et al. Cancer Res 60:4709-4713, 2000</a> <a href="#">Mulholland DJ et al. J Biol Chem 277:17933-17943, 2002</a> <a href="#">Yang F et al. J Biol Chem 277:11336-11344, 2002</a> <a href="#">Song LN et al. Mol Cell Biol 23:1674-1687, 2003</a> <a href="#">Pawlowski JE et al. J Biol Chem 277:20702-20710, 2002</a>	CTNNB; FLJ25606; FLJ37923; DKFZp686D02253; CTNNB1
<a href="#">DACH1</a>	dachshund	dachshund homolog 1	transcription factor	coR	-	-	<a href="#">Wu K et al. Cancer Res 69:3347-3355, 2009</a>	DACH; FLJ10138; DACH1

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<a href="#">DAP3</a>	death associated protein 3	28S ribosomal protein S29, mitochondrial; death-associated protein 3	regulates apoptosis	-	direct	-	<a href="#">Hulkko SM et al. Biochem J 349 Pt 3:885-893, 2000</a>	DAP-3; MRPS29; MRP-S29; bMRP-10; MGC126058; MGC126059; DKFZp686G12159; DAP3
<a href="#">DAPK3</a>	ZIP kinase	death-associated protein kinase 3; ZIP-kinase	regulates apoptosis	coA	direct	-	<a href="#">Leister P et al. Oncogene 27:3292-3300, 2008</a>	ZIP; ZIPK; FLJ36473; DAPK3
<a href="#">DAXX</a>	death domain-associated protein 6	death domain-associated protein 6	other function	coR	direct	NTD, DBD	<a href="#">Lin DY et al. Mol Cell Biol 24:10529-10541, 2004</a>	DAP6; EAP1; BING2; MGC126245; MGC126246; DAXX
<a href="#">DCAF6</a>	NRIP	IQ motif and WD repeats 1; nuclear receptor interaction protein; androgen receptor complex-associated protein; DDB1 and CUL4 associated factor 6	nuclear receptor coregulator	coA	direct	LBD, 595-919	<a href="#">Tsai TC et al. J Biol Chem 280:20000-20009, 2005</a>	NRIP; ARCAP; IQWD1; PC326; MSTP055; RP4-745I14.1; 1200006M05Rik; DCAF6
<a href="#">DDC</a>	L-dopa-decarboxylase	aromatic L-amino acid decarboxylase; dopa decarboxylase	other function	coA	direct	NTD, DBD-LBD	<a href="#">Wafa LA et al. Biochem J 375:373-383, 2003</a> <a href="#">Shao C et al. J Androl 28:804-812, 2007</a>	AADC; DDC
<a href="#">DDX17</a>	DDX17	probable ATP-dependent RNA helicase DDX17; DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 17 (72kD)	splicing & RNA metabolism	-	-	-	<a href="#">Wong HY et al. Biochim Biophys Acta 1794:193-198, 2009</a>	P72; RH70; DKFZp761H2016; DDX17
<a href="#">DDX5</a>	DDX5	DEAD (Asp-Glu-Ala-Asp) box polypeptide 5; RNA helicase, 68kD	splicing & RNA metabolism	coA	direct	DBD-LBD	<a href="#">Clark EL et al. Cancer Res 68:7938-7946, 2008</a> <a href="#">Clark EL et al. Biochem Soc Trans 36:546-547, 2008</a>	p68; HLR1; G17P1; HUMP68; DKFZp434E109; DKFZp686J01190; DDX5
<a href="#">DNAJA1</a>	DjA1	DnaJ (Hsp40) homolog, subfamily A, member 1	chaperone/cochaperone	coR	indirect	-	<a href="#">Terada K et al. Embo J 24:611-622, 2005</a>	DJ-2; DjA1; HDJ2; HSDJ; HSJ2; HSPF4; hDJ-2; DNAJA1



Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">DNAJB1</a>	Hsp40	DnaJ (Hsp40) homolog, subfamily B, member 1; heat shock 40kD protein 1	chaperone/ cochaperone	coA	direct	LBD	<a href="#">Fliss AE et al. J Biol Chem 274:34045-34052, 1999</a> <a href="#">Fan CY et al. J Biol Chem 280:695-702, 2005</a>	Hdj1; Sis1; HSPF1; Hsp40; RSPH16B; DNAJB1
<a href="#">DYRK1A</a>	Dyrk1A	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A	kinase/ phosphatase	coA	indirect	-	<a href="#">Sitz JH et al. Mol Cell Biol 24:5821-5834, 2004</a>	MNB; DYRK; HP86; MNBH; DYRK1; DYRK1A
<a href="#">E2</a>	E2	E2 protein	chromatin remodeling complex componentubiquitin-proteasome system	coA	direct	DBD-LBD	<a href="#">Wu MH et al. Int J Biochem Cell Biol 39:413-425, 2007</a> <a href="#">Wu MH et al. Biochem Biophys Res Commun 356:523-528, 2007</a>	HpV16gp4; HpV18gp4
<a href="#">E2F3</a>	E2F3	transcription factor E2F3	cell cycle regulator	-	direct/indirect	-	<a href="#">Mallik I et al. Biochim Biophys Acta 1783:1737-1744, 2008</a>	E2F-3; KIAA0075; MGC104598; DKFZp686C18211; E2F3
<a href="#">E6</a>	E6	E6 protein	chromatin remodeling complex componentubiquitin-proteasome system	coA/coR	direct	-	<a href="#">Wang WM et al. Biochem Biophys Res Commun 303:932-939, 2003</a>	HpV18gp1
<a href="#">E7</a>	E7	E7 protein	chromatin remodeling complex componentubiquitin-proteasome system	coA/coR	direct	-	<a href="#">Wang WM et al. Biochem Biophys Res Commun 303:932-939, 2003</a>	HpV18gp2
<a href="#">EFCAB6</a>	DJBP	CAP-binding protein complex interacting protein 1; DJ-1-binding protein; EF-hand calcium binding domain 6	other function	coA	direct	DBD	<a href="#">Niki T et al. Mol Cancer Res 1:247-261, 2003</a>	DJBP; FLJ23588; HSCBCIP1; KIAA1672; dJ185D5.1; EFCAB6
<a href="#">EGFR</a>	epidermal growth factor receptor	epidermal growth factor receptor	kinase/ phosphatase	-	direct	-	<a href="#">Bonaccorsi L et al. Int J Cancer 112:78-86, 2004</a> <a href="#">Bonaccorsi L et al. Steroids 69:549-552, 2004</a>	ERBB; HER1; mENA; ERBB1; PIG61; EGFR
<a href="#">EGR1</a>	EGR1	early growth response 1	transcription factor	coA	direct	NTD	<a href="#">Yang SZ and Abdulkadir SA, J Biol Chem 278:39906-39911, 2003</a>	TIS8; AT225; G0S30; NGFI-A; ZNF225; KROX-24; ZIF-268; EGR1

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">EHMT2</a>	G9a	euchromatic histone-lysine N-methyltransferase 2; G9A histone methyltransferase	histone histone methyltransferase / demethylase	coA	indirect	-	<a href="#">Lee DY et al. J Biol Chem 281:8476-8485, 2006</a>	G9A; BAT8; NG36; KMT1C; C6orf30; FLJ35547; DKFZp686H08213; EHMT2
<a href="#">ENY2</a>	ENY2	enhancer of yellow 2 transcription factor homolog	other function	coA	-	-	<a href="#">Zhao Y et al. Mol Cell 29:92-101, 2008</a>	DC6; e(y)2; FLJ20480; ENY2
<a href="#">EP300</a>	p300	histone acetyltransferase p300	histone acetyltransferase/ deacetylase	coA	direct	hinge	<a href="#">Aarnisalo P et al. Proc Natl Acad Sci USA 95:2122-2127, 1998</a> <a href="#">Fu M et al. J Biol Chem 275:20853-20860, 2000</a> <a href="#">Fu M et al. Mol Cell Biol 23:8563-8575, 2003</a> <a href="#">Heemers HV et al. Adv Exp Med Biol 617:535-540, 2008</a>	p300; KAT3B; EP300
<a href="#">ERBB2</a>	HER2/Neu	receptor tyrosine-protein kinase erbB-2; proto-oncogene Neu; tyrosine kinase-type cell surface receptor HER2	kinase/ phosphatase	coA	indirect	-	<a href="#">Yeh S et al. Proc Natl Acad Sci U S A 96:5458-5463, 1999</a>	NEU; NGL; HER2; TKR1; CD340; HER-2; MLN 19; HER-2/neu; ERBB2
<a href="#">ERG</a>	ETS-related gene/ERG	transcriptional regulator ERG; ets-related	other function	coR	-	-	<a href="#">Shin S et al. Cancer Res 69:8102-8110, 2009</a>	p55; erg-3; ERG
<a href="#">ESR1</a>	ERa	estrogen receptor alpha	transcription factor	coR	direct	NTD, FL-AR	<a href="#">Panet-Raymond V et al. Mol Cell Endocrinol 167:139-150, 2000</a>	ER; ESR; Era; ESRA; NR3A1; DKFZp686N23123; ESR1
<a href="#">ETS1</a>	ETS1	protein C-ets-1; ets protein	transcription factor	coA	direct	-	<a href="#">Massie CE et al. EMBO Rep 8:871-878, 2007</a>	ETS-1; EWSR2; FLJ10768; ETS1
<a href="#">ETV1</a>	ETS variant 1	ETS translocation variant 1; ets-related protein 81	transcription factor	coA	direct	LBD	<a href="#">Shin S et al. Cancer Res 69:8102-8110, 2009</a>	ER81; MGC104699; MGC120533; MGC120534; DKFZp781L0674; ETV1
<a href="#">ETV5</a>	ERM	ets variant 5	transcription factor	coR	direct	NTD, DBD-LBD	<a href="#">Wang X et al. J Biol Chem 276:40417-40423, 2001</a>	ERM; ETV5
<a href="#">FHL2</a>	FHL2	four and a half LIM domains 2	signal integrator/ transducer, scaffold or adaptor	coA	direct	full-length AR	<a href="#">Muller JM et al. Embo J 19:359-369, 2000</a>	DRAL; AAG11; SLIM3; FHL2
<a href="#">FKBP4</a>	FKBP52	FK506 binding protein 52; FK506-binding protein 4 (59kD)	chaperone/ cochaperone	coA	indirect	-	<a href="#">Cheung-Flynn J et al. Mol Endocrinol 19:1654-1666, 2005</a> <a href="#">Yong W et al. J Biol Chem 282:5026-5036, 2007</a>	HBI; p52; Hsp56; FKBP52; FKBP59; PPIase; FKBP4

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">FKBP5</a>	FKBP51	FK506 binding protein 5; 51 kDa FK506-binding protein 5	chaperone/ cochaperone	coA	indirect	-	<a href="#">Yong W et al. J Biol Chem 282:5026-5036, 2007</a> <a href="#">Febbo PG et al. J Urol 173:1772-1777, 2005</a> <a href="#">Wang Y et al. Oncogene 26:6061-6070, 2007</a>	AIG6, FKBP51, FKBP54, MGC111006, P54, PPlase, Ptg-10
<a href="#">FLNA</a>	filamin A	filamin A, alpha	cytoskeletal protein	coA/coR	direct	hinge	<a href="#">Ozanne DM et al. Mol Endocrinol 14:1618-1626, 2000</a> <a href="#">Loy CJ et al. Proc Natl Acad Sci U S A 100:4562-4567, 2003</a> <a href="#">Wang Y et al. Oncogene 26:6061-6070, 2007</a>	FLN; FMD; MNS; OPD; ABPX; FLN1; NHBP; OPD1; OPD2; ABP-280; DKFZp434P031; FLNA
<a href="#">FOS</a>	c-Fos	proto-oncogene c-Fos	transcription factor	coR	direct	DBD	<a href="#">Bubulya A et al. J Biol Chem 271:24583-24589, 1996</a> <a href="#">Lobaccaro JM et al. Endocrinology 140:350-357, 1999</a> <a href="#">Sato N et al. J Biol Chem 272:17485-17494, 1997</a>	AP-1; C-FOS; FOS
<a href="#">FOXA1</a>	FoxA1	forkhead box A1; hepatocyte nuclear factor 3, alpha	transcription factor	coA	direct	DBDh	<a href="#">Gao N et al. Mol Endocrinol 17:1484-1507, 2003</a> <a href="#">Mirosevich J et al. Prostate 66:1013-1028, 2006</a> <a href="#">Wang Q et al. Mol Cell 27:380-392, 2007</a>	HNF3A; TCF3A; MGC33105; FOXA1
<a href="#">FOXA2</a>	FoxA2	forkhead box A2; hepatocyte nuclear factor 3, beta	transcription factor	coA/coR	direct	DBD	<a href="#">Yu X et al. Mol Endocrinol 20:2418-2431, 2006</a> <a href="#">Mirosevich J et al. Prostate 66:1013-1028, 2006</a>	HNF3B; TCF3B; MGC19807; FOXA2
<a href="#">FOXG1</a>	FoxG1	forkhead box protein G1	transcription factor	coR	direct	AR (325–919)	<a href="#">Obendorf M et al. J Steroid Biochem Mol Biol 104:195-207, 2007</a>	BF1; BF2; QIN; FKH2; HBF2; HFK1; HFK2; HFK3; KHL2; FKHL3; FKHL1; FKHL2; FKHL3; FKHL4; HBF-1; HBF-2; HBF-3; FOXG1A; FOXG1B; FOXG1C; HBF- G2; FOXG1
<a href="#">FOXH1</a>	FoxH1	forkhead box H1	transcription factor	coR	direct	NTD-DBD	<a href="#">Chen G et al. J Biol Chem 280:36355-36363, 2005</a>	FAST1; FAST-1; FOXH1
<a href="#">FOXO1</a>	FKHR	forkhead box O1; forkhead homolog in rhabdomyosarcoma	transcription factor	coR	direct	LBD	<a href="#">Li P et al. Mol Cell Biol 23:104-118, 2003</a> <a href="#">Dong XY et al. Cancer Res 66:6998-7006, 2006</a> <a href="#">Ma Q et al. Mol Endocrinol 23:213-225, 2009</a> <a href="#">Fan W et al. J Biol Chem 282:7329-7338, 2007</a>	FKH1; FKHR; FOXO1A; FOXO1

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">FOXO3</a>	FOXO3	forkhead box protein O3; forkhead box O3A	transcription factor	-	direct	-	<a href="#">Cornforth AN et al. Oncogene 27:4422-4433, 2008</a>	FOXO2; AF6q21; FKHL1; FOXO3A; FKHL1P2; MGC12739; MGC31925; DKFZp781A0677 ; FOXO3
<a href="#">FOXP1</a>	FOXP1	forkhead box protein P1	transcription factor	coR	direct	-	<a href="#">Takayama K et al. Biochem Biophys Res Commun 374:388-393, 2008</a>	QRF1; 12CC4; hFKH1B; HSPC215; FLJ23741; MGC12942; MGC88572; MGC99551; FOXP1
<a href="#">GADD45GIP1</a>	CR6-interacting factor 1	growth arrest and DNA damage-inducible proteins-interacting protein 1; CR6-interacting factor 1	other function	coR	direct	NTD	<a href="#">Suh JH et al. Mol Endocrinol 22:33-46, 2008</a>	PRG6; CRIF1; CKBBP2; Plinp1; MGC4667; MGC4758; PLINP-1; GADD45GIP1
<a href="#">GAK</a>	GAK/auxillin2	cyclin G associated kinase	endocytosis	coA	direct	NTD, DBD, LBD	<a href="#">Ray MR et al. Int J Cancer 118:1108-1119, 2006</a>	FLJ16629; FLJ40395; MGC99654; GAK
<a href="#">GAPDH</a>	GAPDH	glyceraldehyde-3-phosphate dehydrogenase	other function	coA	direct	NTD	<a href="#">Koshy B et al. Hum Mol Genet 5:1311-1318, 1996</a> <a href="#">Harada N et al. J Biol Chem 282:22651-22661, 2007</a>	G3PD; GAPD; MGC88685; GAPDH
<a href="#">GATA2</a>	GATA-2	GATA binding protein 2	transcription factor	coA	direct	-	<a href="#">Perez-Stable CM et al. Mol Cell Endocrinol 167:43-53, 2000</a> <a href="#">Wang Q et al. Mol Cell 27:380-392, 2007</a>	NFE1B; MGC2306; FLJ45948; GATA2
<a href="#">GATA3</a>	GATA-3	GATA binding protein 3	transcription factor	coA	-	-	<a href="#">Perez-Stable CM et al. Mol Cell Endocrinol 167:43-53, 2000</a>	HDR; MGC2346; MGC5199; MGC5445; GATA3
<a href="#">GNB2L1</a>	RACK1	guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1; Receptor for Activated C Kinase 1	signal integrator/transducer, scaffold or adaptor	coR	direct	LBD	<a href="#">Rigas AC et al. J Biol Chem 278:46087-46093, 2003</a> <a href="#">Kraus S et al. Cancer Res 66:11047-11054, 2006</a>	H12.3; HLC-7; PIG21; RACK1; Gnb2-rs1; GNB2L1

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">GSK3B</a>	GSK-3b	glycogen synthase kinase 3 beta	signal integrator/transducer, scaffold or adaptor	coA/coR	direct	NTD, DBD-LBD	<a href="#">Wang L et al. J Biol Chem 279:32444-32452, 2004</a> <a href="#">Salas TR et al. J Biol Chem 279:19191-19200, 2004</a> <a href="#">Liao X et al. Endocrinology 145:2941-2949, 2004</a> <a href="#">Mazor M et al. Oncogene 23:7882-7892, 2004</a>	GSK3B
<a href="#">GSN</a>	gelsolin	gelsolin	cytoskeletal protein	coA	direct	LBD	<a href="#">Nishimura K et al. Cancer Res 63:4888-4894, 2003</a> <a href="#">Jasavala R et al. Mol Cell Proteomics 6:252-271, 2007</a>	DKFZp313L0718 ; GSN
<a href="#">GTF2F1</a>	TFIIF-alpha	general transcription factor IIF subunit 1; TFIIF-alpha; transcription initiation factor RAP74	transcription factor	-	direct	NTD	<a href="#">McEwan IJ and Gustafsson J Proc Natl Acad Sci U S A 94:8485-8490, 1997</a>	BTF4; RAP74; TF2F1; TFIIF; GTF2F1
<a href="#">GTF2F2</a>	TFIIF-beta	general transcription factor IIF subunit 2; TFIIF-beta; transcription initiation factor RAP30	transcription factor	-	direct	NTD	<a href="#">McEwan IJ and Gustafsson J Proc Natl Acad Sci U S A 94:8485-8490, 1997</a>	BTF4; RAP30; TF2F2; TFIIF; GTF2F2
<a href="#">HAP1</a>	huntingtin-associated protein 1	huntingtin-associated protein 1	other function	-	direct/indirect	LBD	<a href="#">Takeshita Y et al. Hum Mol Genet 15:2298-2312, 2006</a>	HLP; HAP2; HIP5; hHLP1; HAP1
<a href="#">HBVgp3</a>	HBx	X protein, hepatitis B virus; HBVgp3 X protein	chromatin remodeling complex componentubiquitin-proteasome system	coA	direct	-	<a href="#">Zheng Y et al. Virology 363:454-461, 2007</a> <a href="#">Chiu CM et al. Proc Natl Acad Sci USA 104:2571-2578, 2007</a> <a href="#">Yang WJ et al. Hepatology 49:1515-1524, 2009</a>	
<a href="#">HDAC1</a>	HDAC1	histone deacetylase 1	histone acetyltransferase/deacetylase	coR	direct	-	<a href="#">Gaughan L et al. J Biol Chem 277:25904-25913, 2002</a>	HD1; RPD3; GON-10; RPD3L1; DKFZp686H12203; HDAC1
<a href="#">HDAC3</a>	HDAC3	histone deacetylase 3	histone acetyltransferase/deacetylase	-	direct	DBD	<a href="#">Franco PJ et al. Mol Cell Endocrinol 206:1-12, 2003</a>	HD3; RPD3; RPD3-2; HDAC3
<a href="#">HDAC4</a>	HDAC4	histone deacetylase 4	histone acetyltransferase/deacetylase	-	direct	DBD	<a href="#">Franco PJ et al. Mol Cell Endocrinol 206:1-12, 2003</a>	HD4; HDACA; HA6116; HDAC-A; KIAA0288; HDAC4
<a href="#">HDAC6</a>	HDAC6	histone deacetylase 6	histone acetyltransferase/deacetylase	coA	indirect	-	<a href="#">Ai J et al. Mol Endocrinol 23:1963-1972, 2009</a>	HD6; JM21; FLJ16239; HDAC6
<a href="#">HDAC7</a>	HDAC7	histone deacetylase 7	histone acetyltransferase/deacetylase	coR	direct	-	<a href="#">Karvonen U et al. Exp Cell Res 312:3165-3183, 2006</a>	HD7A; HDAC7A; FLJ99588; DKFZp586J0917 ; HDAC7

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">HEY1</a>	Hey1	hairy/enhancer-of-split related with YRPW motif 1	signal integrator/transducer, scaffold or adaptor	coR	direct	-	<a href="#">Belandia B et al. Mol Cell Biol 25:1425-1436, 2005</a>	CHF2; OAF1; HERP2; HESR1; HRT-1; BHLHb31; MGC1274; HEY1
<a href="#">HEY2</a>	Hey2	hairy/enhancer-of-split related with YRPW motif 2	signal integrator/transducer, scaffold or adaptor	coR	-	-	<a href="#">Belandia B et al. Mol Cell Biol 25:1425-1436, 2005</a>	GRL; CHF1; HRT2; HERP1; HESR2; bHLHb32; GRIDLOCK; MGC10720; HEY2
<a href="#">HIF1A</a>	HIF-1-alpha	hypoxia-inducible factor 1-alpha; HIF-1-alpha	transcription factor	coA	direct	-	<a href="#">Horii K et al. Mol Cancer Res 5:383-391, 2007</a>	HIF1; MOP1; PASD8; bHLHe78; HIF-1alpha; HIF1-ALPHA; HIF1A
<a href="#">HIP1</a>	HIP1	huntingtin interacting protein 1	endocytosis	coA	direct	-	<a href="#">Mills IG et al. J Cell Biol 170:191-200, 2005</a>	ILWEQ; MGC126506; HIP1
<a href="#">HIPK3</a>	ANPK	homeodomain interacting protein kinase 3; AR-interacting nuclear protein kinase	kinase/phosphatase	coA	direct	DBDh	<a href="#">Moilanen AM et al. Mol Biol Cell 9:2527-2543, 1998</a>	PKY; YAK1; DYRK6; FIST3; HIPK3; Rat: ANPK; Hipk3
<a href="#">HMGB1</a>	high-mobility group chromatin protien 1	high mobility group protein B1; high mobility group box 1	other function	coA	-	-	<a href="#">Boonyaratanakornkit V et al. Mol Cell Biol 18:4471-4487, 1998</a>	HMG1; HMG3; SBP-1; DKFZp686A04236; HMGB1
<a href="#">HNRNPA1</a>	hnRNPA1	heterogeneous nuclear ribonucleoprotein A1	splicing & RNA metabolism	coR	indirect	-	<a href="#">Yang Z et al. Endocrinology 148:1340-1349, 2007</a>	HNRPA1; hnRNP-A1; MGC102835; HNRNPA1
<a href="#">HNRPDL</a>	heterogenous nuclear ribonucleoprotein D-like protein	heterogeneous nuclear ribonucleoprotein D-like; hnRNP D-like; JKTBP1	splicing & RNA metabolism	coA	-	-	<a href="#">Wu YY et al. Cell Biochem Funct 26:467-477, 2008</a>	HNRNP; JKTBP; JKTBP2; laAUF1; HNRPDL
<a href="#">HOXB13</a>	HoxB13	homeobox B13	transcription factor	coR	direct	DBD	<a href="#">Jung C et al. Cancer Res 64:9185-9192, 2004</a> <a href="#">Norris JD et al. Mol Cell 36:405-416, 2009</a>	PSGD; HOXB13

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<a href="#">HSP90AA1</a>	Hsp90	heat shock 90kDa protein 1, alpha	chaperone/ cochaperone	coA	direct	LBD	<a href="#">Nemoto T et al. J Steroid Biochem Mol Biol 42:803-812, 1992</a>	HSPN; LAP2; HSP86; HSPC1; HSPCA; Hsp89; Hsp90; HSP89A; HSP90A; HSP90N; HSPCAL1; HSPCAL4; FLJ31884; HSP90AA1
<a href="#">HSPA1A</a>	Hsp70	heat shock 70 kDa protein 1A/1B; HSP70-1/HSP70-2	chaperone/ cochaperone	coA	direct	-	<a href="#">Veldscholte J et al. Biochemistry 31:2393-2399, 1992</a> <a href="#">Shatkina L et al. Mol Cell Biol 23:7189-7197, 2003</a>	HSP72; HSPA1; HSP70I; HSPA1B; HSP70-1; FLJ54303; FLJ54370; FLJ54392; FLJ54408; FLJ75127; HSP70-1
<a href="#">HSPB2</a>	Hsp27	heat shock protein beta-1; HSP 27; heat shock 27 kDa protein	chaperone/ cochaperone	coA	direct	NTD, LBD	<a href="#">Zoubeidi A et al. Cancer Res 67:10455-10465, 2007</a> <a href="#">Hassan S et al. Oncogene 28:4386-4396, 2009</a>	CMT2F; HMN2B; HSP27; HSP28; Hsp25; SRP27; HS.76067; DKFZp586P1322 ; HSPB
<a href="#">HTATIP2</a>	Tat-interacting protein 30	oxidoreductase HTATIP2; Tat-interacting protein (30kD)	other function	coA	-	-	<a href="#">Zhang H et al. Int J Cancer 123:810-816, 2008</a>	CC3; TIP30; SDR44U1; FLJ26963; HTATIP2
<a href="#">IDE</a>	RAF/insulin degrading enzyme	insulin-degrading enzyme; receptor accessory factor	other function	-	direct	NTD-DBD	<a href="#">Kupfer SR et al. J Biol Chem 268:17519-17527, 1993</a> <a href="#">Kupfer SR et al. J Biol Chem 269:20622-20628, 1994</a>	FLJ35968; INSULYSIN; IDE
<a href="#">IFI16</a>	interferon gamma inducible protein 16	gamma-interferon-inducible protein 16; interferon-gamma induced protein IFI 16	signal integrator/ transducer, scaffold or adaptor	coR	direct	DBD	<a href="#">Alimirah F et al. FEBS Lett 580:1659-1664, 2006</a>	PYHIN2; IFNGIP1; MGC9466; IFI16
<a href="#">IL6ST</a>	interleukin 6 receptor, beta	interleukin-6 receptor subunit beta; interleukin 6 signal transducer	signal integrator/ transducer, scaffold or adaptor	-	direct	-	<a href="#">Culig Z et al. Mol Cell Endocrinol 197:231-238, 2002</a> <a href="#">Xie S et al. Prostate 60:61-67, 2004</a>	CD130; GP130; CDw130; IL6R- beta; GP130- RAPs; IL6ST
<a href="#">IRS1</a>	IRS-1	insulin receptor substrate 1	signal integrator/ transducer, scaffold or adaptor	coA	direct	-	<a href="#">Lanzino M et al. Breast Cancer Res Treat 115:297-306, 2009</a>	HIRS-1; IRS1

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">JMJD1C</a>	s-JMJD1C	probable JmjC domain-containing histone demethylation protein 2C; thyroid receptor interacting protein 8	histone histone methyltransferase / demethylase	coA	direct	-	<a href="#">Wolf SS et al. Arch Biochem Biophys 460:56-66, 2007</a>	TRIP8; FLJ14374; KIAA1380; RP11-10C13.2; DKFZp761F0118; JMJD1C
<a href="#">JUN</a>	c-Jun	jun oncogene	transcription factor	coA/coR	direct	DBD	<a href="#">Bubulya A et al. J Biol Chem 271:24583-24589, 1996</a> <a href="#">Lobaccaro JM et al. Endocrinology 140:350-357, 1999</a> <a href="#">Chen SY et al. Oncogene 25:7212-7223, 2006</a> <a href="#">Sato N et al. J Biol Chem 272:17485-17494, 1997</a>	AP1; AP-1; c-Jun; JUN
<a href="#">KAT2A</a>	GCN5	general control of amino acid synthesis 5-like 2; GCN5 (general control of amino-acid synthesis, yeast, homolog)-like 2	histone acetyltransferase/ deacetylase	coA	-	-	<a href="#">Zhao Y et al. Mol Cell 29:92-101, 2008</a>	GCN5; hGCN5; GCN5L2; PCAF-b; MGC102791; KAT2A
<a href="#">KAT2B</a>	P/CAF	K(lysine) acetyltransferase 2B; p300/CBP-associated factor	histone acetyltransferase/ deacetylase	coA	direct	hinge	<a href="#">Fu M et al. J Biol Chem 275:20853-20860, 2000</a>	P; CAF; PCAF; P/CAF; KAT2B
<a href="#">KAT5</a>	Tip60	K(lysine) acetyltransferase 5; Tat-interacting protein 60; HIV-1 Tat interacting protein, 60kDa	histone acetyltransferase/ deacetylase	coA	direct	Hinge-LBD	<a href="#">Brady ME et al. J Biol Chem 274:17599-17604, 1999</a> <a href="#">Gaughan L et al. J Biol Chem 276:46841-46848, 2001</a> <a href="#">Gaughan L et al. J Biol Chem 277:25904-25913, 2002</a>	TIP; ESA1; PLIP; TIP60; cPLA2; HTATIP; HTATIP1; KAT5
<a href="#">KDM1A</a>	LSD1	lysine-specific histone demethylase 1	histone histone methyltransferase / demethylase	coA	direct	NTD, DBD, LBD	<a href="#">Metzger E et al. Nature 437:436-439, 2005</a> <a href="#">Wissmann M et al. Nat Cell Biol 9:347-353, 2007</a>	AOF2; KDM1; LSD1; BHC110; KIAA0601; RP1-184J9.1; KDM1A
<a href="#">KDM3A</a>	JHDM2A	jumonji domain containing 1A; lysine (K)-specific demethylase 3A	histone histone methyltransferase / demethylase	coA	direct	-	<a href="#">Yamane K et al. Cell 125:483-495, 2006</a>	TSGA; JMJD1; JHDM2A; JHMD2A; JMJD1A; KIAA0742; DKFZp686A24246; DKFZp686P07111; KDM3A
<a href="#">KDM4A</a>	JMJD2A	lysine-specific demethylase 4A; jumonji domain containing 2A	histone histone methyltransferase / demethylase	coA	direct	LBD	<a href="#">Shin S and Janknecht R. Biochem Biophys Res Commun 359:742-746, 2007</a>	JMJD2; JHDM3A; JMJD2A; KIAA0677; KDM4A



Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">KDM4C</a>	JMJD2C	jumonji domain containing 2C; lysine (K)-specific demethylase 4C	histone histone methyltransferase / demethylase	coA	direct	NTD, DBD, LBD	<a href="#">Wissmann M et al. Nat Cell Biol 9:347-353, 2007</a>	GASC1; JHDM3C; JMJD2C; FLJ25949; KIAA0780; bA146B14.1; KDM4C
<a href="#">KDM4D</a>	JMJD2D	lysine-specific demethylase 4D; jumonji domain-containing protein 2D	histone histone methyltransferase / demethylase	coA	direct	LBD	<a href="#">Shin S and Janknecht R. Biochem Biophys Res Commun 359:742-746, 2007</a>	JMJD2D; FLJ10251; MGC141909; KDM4D
<a href="#">KDM5B</a>	JARID1B	lysine-specific demethylase 5B; histone demethylase JARID1B; jumonji, AT rich interactive domain 1B	histone histone methyltransferase / demethylase	coA	direct	-	<a href="#">Xiang Y et al. Proc Natl Acad Sci U S A 104:19226-19231, 2007</a>	CT31; PLU1; PUT1; PLU-1; JARID1B; FLJ10538; FLJ12459; FLJ12491; FLJ16281; FLJ23670; RBBP2H1A; KDM5B
<a href="#">KHDRBS1</a>	Sam68	KH domain containing, RNA binding, signal transduction associated 1; GAP-associated tyrosine phosphoprotein p62 (Sam68); Src-associated in mitosis 68 kDa	splicing & RNA metabolism	coA	direct	-	<a href="#">Rajan P et al. J Pathol 215:67-77, 2008</a>	p62; Sam68; FLJ34027; KHDRBS1
<a href="#">KIAA1967</a>	DBC1	p30 DBC protein; deleted in breast cancer 1	other function	coA	direct	LBD	<a href="#">Fu J et al. J Biol Chem 284:6832-6840, 2009</a>	DBC1; DBC-1; NET35; p30 DBC
<a href="#">KIF1A</a>	kinesin family member 1A	kinesin-like protein KIF1A	other function	-	direct	LBD	<a href="#">Albers M et al. Mol Cell Proteomics 4:205-213, 2005</a>	ATSV; UNC104; C2orf20; FLJ30229; HUNC-104; MGC133285; MGC133286; DKFZp686I2094; KIF1A
<a href="#">LATS2</a>	LATS2/KPM	LATS, large tumor suppressor, homolog 2	other function	coR	direct	LBD	<a href="#">Powzaniuk M et al. Mol Endocrinol 18:2011-2023, 2004</a>	KPM; FLJ13161; LATS2

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">LPXN</a>	leupaxin	leupaxin	signal integrator/ transducer, scaffold or adaptor	coA	direct	LBD 551-919	<a href="#">Kaulfuss S et al. Mol Endocrinol 22:1606-1621, 2008</a>	LDPL; LPXN
<a href="#">MACROD1</a>	LRP16	MACRO domain- containing protein 1	other function	coA	direct	LBD, NTD-DBD (weak)	<a href="#">Yang J et al. Endocr Relat Cancer 16:139-153, 2009</a>	LRP16; MACROD1
<a href="#">MAGEA11</a>	MAGE-11	melanoma antigen family A, 11	other function	coA	direct	NTD	<a href="#">Bai S et al. Mol Cell Biol 25:1238-1257, 2005</a> <a href="#">Askew EB et al. J Biol Chem 284:34793-34808, 2009</a> <a href="#">Karpf AR et al. Mol Cancer Res 7:523-535, 2009</a>	CT1.11; MAGE11; MAGE-11; MAGEA-11; MGC10511; MAGEA11
<a href="#">MAK</a>	MAK	male germ cell- associated kinase; serine/threonine protein kinase MAK	kinase/ phosphatase	coA	direct	NTD-DBD, DBD-LBD	<a href="#">Ma AH et al. Cancer Res 66:8439-8447, 2006</a>	dJ417M14.2; MAK
<a href="#">MAPK1</a>	MAP kinase	mitogen-activated protein kinase 1	kinase/ phosphatase	-	direct	NTD-DBD	<a href="#">Yeh S et al. Proc Natl Acad Sci U S A 96:5458-5463, 1999</a> <a href="#">Agoulnik IU et al. Mol Endocrinol 22:2420-2432, 2008</a>	ERK; p38; p40; p41; ERK2; ERT1; MAPK2; PRKM1; PRKM2; P42MAPK; p41mapk; MAPK1
<a href="#">MAPK15</a>	ERK8	mitogen-activated protein kinase 15; extracellular signal- regulated kinase 8	kinase/ phosphatase	coR	indirect	-	<a href="#">Saelzler MP et al. J Biol Chem 281:16821-16832, 2006</a>	ERK7; ERK8; MAPK15
<a href="#">MCM7</a>	MCM7	minichromosome maintenance complex component 7	other function	coA	direct	NTD	<a href="#">Shi YK et al. Am J Pathol 173:1758-1767, 2008</a>	MCM2; CDC47; P85MCM; P1CDC47; PNAS146; P1.1- MCM3; MCM7
<a href="#">MDM2</a>	Mdm2	mouse double minute 2 homolog; ubiquitin- protein ligase E3 Mdm2	ubiquitin- proteasome system	coR	direct	NTD, DBD	<a href="#">Lin HK et al. Embo J 21:4037-4048, 2002</a> <a href="#">Gaughan L et al. Nucleic Acids Res 33:13-26, 2005</a>	HDMX; hdm2; MGC5370; MGC71221; MDM2

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">MED1</a>	TRAP220	mediator complex subunit 1; PPAR binding protein	nuclear receptor coregulator	coA	direct	LBD	<a href="#">Wang Q et al. J Biol Chem 277:42852-42858, 2002</a> <a href="#">Vijayvargia R et al. Cancer Res 67:4034-4041, 2007</a>	PBP; CRSP1; RB18A; TRIP2; PPARBP; CRSP200; DRIP205; DRIP230; PPARGBP; TRAP220; MGC71488; MED1
<a href="#">MED14</a>	TRAP170	mediator complex subunit 14; DRIP150 ; TRAP170	nuclear receptor coregulator	coA	-	-	<a href="#">Wang Q et al. J Biol Chem 277:42852-42858, 2002</a>	CSRP; RGR1; CRSP2; EXLM1; CXorf4; CRSP150; DRIP150; TRAP170; MGC104513; MED14
<a href="#">MED17</a>	MED17	mediator of RNA polymerase II transcription subunit 17; CRSP complex subunit 6	nuclear receptor coregulator	coA	-	-	<a href="#">Vijayvargia R et al. Cancer Res 67:4034-4041, 2007</a>	CRSP6; CRSP77; DRIP80; TRAP80; FLJ10812; MED17
<a href="#">MED24</a>	TRAP100	mediator complex subunit 24; thyroid hormone receptor associated protein 4	nuclear receptor coregulator	coA	-	-	<a href="#">Wang Q et al. J Biol Chem 277:42852-42858, 2002</a>	CRSP4; ARC100; THRAP4; CRSP100; DRIP100; MGC8748; TRAP100; KIAA0130; MED24
<a href="#">MKRN1</a>	MKRN1	makorin ring finger protein 1	ubiquitin-proteasome system	coR	-	-	<a href="#">Omwancha J et al. Endocrine 29:363-373, 2006</a>	RNF61; FLJ21334; MKRN1
<a href="#">MYO6</a>	myosin VI	myosin-VI; unconventional myosin-6	other function	coA	direct	-	<a href="#">Loikkanen I et al. Oncol Rep 22:991-995, 2009</a>	DFNA22; DFNB37; KIAA0389; MYO6
<a href="#">MYST2</a>	HBO1	MYST histone acetyltransferase 2	histone acetyltransferase/ deacetylase	coR	direct	DBD-LBD	<a href="#">Sharma M et al. J Biol Chem 275:35200-35208, 2000</a>	HBO1; HBOA; KAT7; MYST2

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">NCOA1</a>	SRC-1	nuclear receptor coactivator 1; steroid receptor coactivator-1	histone acetyltransferase/ deacetylase	coA	direct	NTD, LBD	<a href="#">Onate SA et al. Science 270:1354-1357, 1995</a> <a href="#">Huang ZQ et al. EMBO J 22:2146-2155, 2003</a> <a href="#">Ding XF et al. Mol Endocrinol 12:302-313, 1998</a> <a href="#">Ma H et al. Mol Cell Biol 19:6164-6173, 1999</a> <a href="#">Bevan CL et al. Mol Cell Biol 19:8383-8392, 1999</a> <a href="#">Alen P et al. Mol Cell Biol 19:6085-6097, 1999</a>	SRC1; KAT13A; RIP160; F-SRC-1; bHLHe42; bHLHe74; MGC129719; MGC129720; NCOA1
<a href="#">NCOA2</a>	SRC-2	nuclear receptor coactivator 2; glucocorticoid receptor-interacting protein-1	histone acetyltransferase/ deacetylase	coA	direct	NTD, LBD	<a href="#">Hong H et al. Proc Natl Acad Sci U S A 93:4948-4952, 1996</a> <a href="#">Ding XF et al. Mol Endocrinol 12:302-313, 1998</a> <a href="#">Berrevoets CA et al. Mol Endocrinol 12:1172-1183, 1998</a> <a href="#">Ma H et al. Mol Cell Biol 19:6164-6173, 1999</a> <a href="#">Alen P et al. Mol Cell Biol 19:6085-6097, 1999</a> <a href="#">Song LN et al. Mol Cell Biol 23:1674-1687, 2003</a>	SRC2; TIF2; GRIP1; KAT13C; NCoA-2; bHLHe75; MGC138808; NCOA2
<a href="#">NCOA3</a>	SRC-3	nuclear receptor coactivator 3; steroid receptor coactivator protein 3; amplified in breast cancer-1	histone histone methyltransferase / demethylase	coA	direct	NTD, hLBD	<a href="#">Tan JA et al. Endocrinology 141:3440-3450, 2000</a> <a href="#">Wang Q et al. Mol Cell 19:631-642, 2005</a>	ACTR; AIB1; RAC3; SRC3; pCIP; AIB-1; CTG26; SRC-3; CAGH16; KAT13B; TNRC14; TNRC16; TRAM-1; bHLHe42; MGC141848; NCOA3
<a href="#">NCOA4</a>	ARA70	nuclear receptor coactivator 4; androgen receptor coactivator, 70-kD	nuclear receptor coregulator	coA	direct	NTD, LBD	<a href="#">Yeh S and Chang C, Proc Natl Acad Sci USA 93: 5517-5521, 1996</a> <a href="#">Miyamoto H et al. Proc Natl Acad Sci USA 95:7379-7384, 1998</a> <a href="#">Heinlein CA et al. J Biol Chem 274:16147-16152, 1999</a> <a href="#">Alen P et al. Mol Endocrinol 13:117-128, 1999</a> <a href="#">Peng Y et al. Am J Pathol 172:225-235, 2008</a>	RFG; ELE1; PTC3; ARA70; DKFZp762E1112 ; NCOA4
<a href="#">NCOA6</a>	Asc-2	nuclear receptor coactivator 6, activating signal cointegrator-2	nuclear receptor coregulator	coA	indirect	-	<a href="#">Goo YH et al. J Biol Chem 279:7131-7135, 2004</a>	NRC; AIB3; ANTP; ASC2; PRIP; TRBP; HOXA7; HOX1.1; RAP250; KIAA0181; NCOA6
<a href="#">NCOR1</a>	NCoR	nuclear receptor co-repressor 1	nuclear receptor coregulator	coR	direct	NTD, LBD	<a href="#">Cheng S et al. Mol Endocrinol 16:1492-1501, 2002</a> <a href="#">Hodgson MC et al. J Biol Chem 280:6511-6519, 2005</a> <a href="#">Zhu P et al. Cell 124:615-629, 2006</a>	N-CoR; TRAC1; hN-CoR; KIAA1047; MGC104216; hCIT529110; NCOR1

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">NCOR2</a>	SMRT	nuclear receptor co-repressor 2; silencing mediator for retinoid and thyroid hormone receptors	nuclear receptor coregulator	coR	direct	NTD	<a href="#">Dotzlaw H et al. Mol Endocrinol 16:661-673, 2002</a> <a href="#">Dotzlaw H et al. Mol Cell Endocrinol 213:79-85, 2003</a>	SMRT; CTG26; SMRTE; TRAC1; TNRC14; TRAC-1; SMRTE-tau; NCOR2
<a href="#">NFI1</a>	NF1	nuclear factor 1 X-type; CTF	transcription factor	coA	-	-	<a href="#">Darne CH et al. Mol Cell Endocrinol 132:13-23, 1997</a>	NF1A; NFI1
<a href="#">NLK</a>	nemo-like kinase	serine/threonine-protein kinase NLK	kinase/ phosphatase	coR	direct	-	<a href="#">Emami KH et al. Prostate 69:1481-1492, 2009</a>	FLJ21033; DKFZp761G1211; NLK
<a href="#">NONO</a>	p54nrb	non-POU domain containing, octamer-binding; 54 kDa nuclear RNA- and DNA-binding protein	splicing & RNA metabolism	coA/coR	direct	NTD	<a href="#">Ishitani K et al. Biochem Biophys Res Commun 306:660-665, 2003</a> <a href="#">Kuwahara S et al. Biol Reprod 75:352-359, 2006</a> <a href="#">Dong X et al. Mol Cell Biol 27:4863-4875, 2007</a>	P54; NMT55; NRB54; P54NRB; NONO
<a href="#">NPM1</a>	NPM1	nucleophosmin 1	other function	coA	direct	DBDh	<a href="#">Leotoing L et al. Oncogene 27:2858-2867, 2008</a>	B23; NPM; MGC104254; NPM1
<a href="#">NR0B1</a>	Dax1	Dax-1; nuclear receptor subfamily 0, group B, member 1	transcription factor	coR	direct	LBD	<a href="#">Holter E et al. Mol Endocrinol 16:515-528, 2002</a> <a href="#">Agoulnik IU et al. J Biol Chem 278:31136-31148, 2003</a>	AHC; AHX; DSS; GTD; HHG; AHCH; DAX1; DAX-1; NROB1; NR0B1
<a href="#">NR0B2</a>	SHP	short heterodimer partner; orphan nuclear receptor SHP	transcription factor	coR	direct	NTD, LBD	<a href="#">Gobinet J et al. Biochemistry 40:15369-15377, 2001</a>	SHP; SHP1; FLJ17090; NR0B2
<a href="#">NR2C1</a>	TR2	nuclear receptor subfamily 2, group C, member 1; testicular receptor 2; orphan nuclear receptor TR2	transcription factor	coR	direct	LBD	<a href="#">Mu X and Chang C, Prostate 57:129-133, 2003</a>	TR2; NR2C1
<a href="#">NR2C2</a>	TR4	nuclear receptor subfamily 2, group C, member 2; nuclear hormone receptor TR4	transcription factor	coR	direct	NTD, DBD, LBD	<a href="#">Lee YF et al. Proc Natl Acad Sci U S A 96:14724-14729, 1999</a>	TR4; TAK1; TR2R1; hTAK1; NR2C2
<a href="#">NR3C1</a>	GR	glucocorticoid receptor	transcription factor	coR	direct	DBD	<a href="#">Chen S et al. J Biol Chem 272:14087-14092, 1997</a>	GR; GCR; GRL; GCCR; NR3C1
<a href="#">NR5A1</a>	SF-1	steroidogenic factor 1	transcription factor	coA	direct	DBD	<a href="#">Jorgensen JS and Nilson JH, Mol Endocrinol 15:1505-1516, 2001</a>	ELP; SF1; FTZ1; POF7; SF-1; AD4BP; FTZF1; NR5A1
<a href="#">NRIP1</a>	RIP140	nuclear receptor interacting protein 1; receptor interacting protein 140	nuclear receptor coregulator	coR	direct	NTD-DBD, LBD	<a href="#">Carascossa S et al. Mol Endocrinol 20:1506-1518, 2006</a>	RIP140; FLJ77253; NRIP1

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">NSD1</a>	NSD1/ARA267a	nuclear receptor binding SET domain protein 1; androgen receptor-associated protein 267-alpha	nuclear receptor coregulator	coA	direct	NTD, DBD-LBD	<a href="#">Wang X et al. J Biol Chem 276:40417-40423, 2001</a>	STO; KMT3B; SOTOS; ARA267; FLJ10684; FLJ22263; FLJ44628; DKFZp666C163; NSD1
<a href="#">PA2G4</a>	EBP1	ErbB3-binding protein 1	signal integrator/transducer, scaffold or adaptor	coR	direct	NTD	<a href="#">Zhang Y et al. Oncogene 21:5609-5618, 2002</a> <a href="#">Zhang Y and Hamburger AW, Br J Cancer 92:140-146, 2005</a> <a href="#">Zhang Y et al. Proc Natl Acad Sci U S A 102:9890-9895, 2005</a> <a href="#">Zhang Y et al. Nucleic Acids Res 33:6024-6033, 2005</a>	EBP1; HG4-1; p38-2G4; PA2G4
<a href="#">PAK6</a>	PAK6	p21-activated kinase 6	signal integrator/transducer, scaffold or adaptor	coR	direct	DBD-LBD	<a href="#">Yang F et al. J Biol Chem 276:15345-15353, 2001</a> <a href="#">Lee SR et al. Mol Endocrinol 16:85-99, 2002</a> <a href="#">Schantz N et al. J Biol Chem 279:1922-1931, 2004</a>	PAK5; PAK6
<a href="#">PARK7</a>	DJ-1/PARK7	Parkinson disease protein 7	other function	coA	direct	-	<a href="#">Takahashi K et al. J Biol Chem 276:37556-37563, 2001</a> <a href="#">Tillman JE et al. Cancer Res 67:4630-4637, 2007</a>	DJ1; DJ-1; FLJ27376; FLJ34360; FLJ92274; PARK7
<a href="#">PATZ1</a>	PATZ1	POZ (BTB) and AT hook containing zinc finger 1; zinc finger protein 278; POZ-AT hook-zinc finger protein	nuclear receptor coregulator	coR	indirect	-	<a href="#">Pero R et al. J Biol Chem 277:3280-3285, 2002</a>	ZSG; MAZR; PATZ; RIAZ; ZBTB19; ZNF278; dJ400N23; PATZ1
<a href="#">PAWR</a>	Par-4	PRKC, apoptosis, WT1, regulator; transcriptional repressor PAR4; prostate apoptosis response protein 4	regulates apoptosis	coA	direct	DBD	<a href="#">Gao S et al. J Mol Endocrinol 36:463-483, 2006</a>	PAR4; Par-4; PAWR
<a href="#">PELP1</a>	PELP1/MNAR	proline, glutamic acid and leucine rich protein 1	signal integrator/transducer, scaffold or adaptor	coA	direct	-	<a href="#">Nair SS et al. Mol Endocrinol 21:613-624, 2007</a> <a href="#">Jasavala R et al. Mol Cell Proteomics 6:252-271, 2007</a>	HMX3; MNAR; P160; PELP1
<a href="#">PER1</a>	Per1	period circadian protein homolog 1; hPER1; circadian clock protein PERIOD 1	other function	coR	direct	-	<a href="#">Cao Q et al. Cancer Res 69:7619-7625, 2009</a>	PER; hPER; RIGUI; MGC88021; PER1

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">PHB</a>	prohibitin	prohibitin	other function	coR	indirect	-	<a href="#">Gamble SC et al. Oncogene 26:1757-1768, 2007</a> <a href="#">Dai Y et al. Carcinogenesis 29:1725-1733, 2008</a>	PHB1; PHB
<a href="#">PIAS1</a>	PIAS1	protein inhibitor of activated STAT, 1	sumoylation	coA/coR	direct	DBD	<a href="#">Tan J et al. Mol Endocrinol 14:14-26, 2000</a> <a href="#">Kotaja N et al. Mol Endocrinol 14:1986-2000, 2000</a> <a href="#">Gross M et al. Oncogene 20:3880-3887, 2001</a> <a href="#">Nishida T and Yasuda H, J Biol Chem 277:41311-41317, 2002</a> <a href="#">Kotaja N et al. Mol Cell Biol 22:5222-5234, 2002</a>	GBP; ZMIZ3; DDXBP1; GU/RH-II; MGC141878; MGC141879; PIAS1
<a href="#">PIAS2</a>	PIASxa/ARIP3	protein inhibitor of activated STAT X-alpha; AR-interacting protein 3; protein inhibitor of activated STAT, 2	sumoylation	coA/coR	direct	DBD	<a href="#">Kotaja N et al. Mol Endocrinol 14:1986-2000, 2000</a> <a href="#">Nishida T and Yasuda H, J Biol Chem 277:41311-41317, 2002</a> <a href="#">Kotaja N et al. Mol Cell Biol 22:5222-5234, 2002</a>	miz; MIZ1; SIZ2; PIASX; ZMIZ4; MGC102682; PIASX-BETA; PIASX-ALPHA; PIAS2
<a href="#">PIAS2</a>	PIASxb	protein inhibitor of activated STAT X-beta	sumoylation	coA/coR	direct	-	<a href="#">Kotaja N et al. Mol Endocrinol 14:1986-2000, 2000</a> <a href="#">Kotaja N et al. Mol Cell Biol 22:5222-5234, 2002</a>	miz; MIZ1; SIZ2; PIASX; ZMIZ4; MGC102682; PIASX-BETA; PIASX-ALPHA; PIAS2
<a href="#">PIAS3</a>	PIAS3	protein inhibitor of activated STAT, 3	sumoylation	coA/coR	direct	NTD	<a href="#">Junicho A et al. Biochem Biophys Res Commun 278:9-13, 2000</a> <a href="#">Kotaja N et al. Mol Endocrinol 14:1986-2000, 2000</a> <a href="#">Gross M et al. Oncogene 20:3880-3887, 2001</a> <a href="#">Kotaja N et al. Mol Cell Biol 22:5222-5234, 2002</a>	ZMIZ5; FLJ14651; PIAS3
<a href="#">PIAS4</a>	PIASy	protein inhibitor of activated STAT, 4	sumoylation	coR	direct	DBD	<a href="#">Gross M et al. Oncogene 23:3059-3066, 2004</a>	PIASY; Piasg; ZMIZ6; FLJ12419; MGC35296; PIAS4
<a href="#">PIK3CB</a>	PI3K p110 $\beta$	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta isoform; PI3-kinase p110 subunit beta	kinase/ phosphatase	coA	-	-	<a href="#">Zhu Q et al. Oncogene 27:4569-4579, 2008</a>	PI3K; PIK3C1; P110BETA; PI3KBETA; MGC133043; DKFZp779K1237 ; PIK3CB
<a href="#">PIK3R1</a>	PI3K p85 $\alpha$	phosphatidylinositol 3-kinase regulatory subunit alpha; PI3-kinase subunit p85-alpha	kinase/ phosphatase	coA	-	-	<a href="#">Zhu Q et al. Oncogene 27:4569-4579, 2008</a>	p85; GRB1; p85-ALPHA; PIK3R1

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">PKN1</a>	PRK1	protein kinase N1; protein kinase C- related kinase 1	signal integrator/ transducer, scaffold or adaptor	coA	direct	NTD	<a href="#">Metzger E et al. Embo J 22:270-280, 2003</a>	DBK; PKN; PAK1; PRK1; PRKCL1; MGC46204; PKN-ALPHA; PKN1
<a href="#">PKN1</a>	protein-kinase-C- related kinase 1	serine/threonine- protein kinase N1; protein kinase C-like 1; protein kinase C- related kinase 1	kinase/ phosphatase	coA	-	-	<a href="#">Metzger E et al. Nat Cell Biol 10:53-60, 2008</a>	DBK; PKN; PAK1; PRK1; PAK-1; PRKCL1; MGC46204; PKN-ALPHA; PKN1
<a href="#">PLAGL1</a>	Zac1	pleiomorphic adenoma gene-like 1; ZAC tumor supressor	nuclear receptor coregulator	coA	direct	LBD	<a href="#">Huang SM and Stallcup MR, Mol Cell Biol 20: 1855-1867, 2000</a>	ZAC; LOT1; ZAC1; MGC126275; MGC126276; DKFZp781P1017 ; PLAGL1
<a href="#">PMEPA1</a>	PMEPA1	transmembrane prostate androgen- induced protein; prostate transmembrane protein, androgen induced 1	ubiquitin- proteasome system	-	direct	-	<a href="#">Li H et al. J Biol Chem 283:28988-28995, 2008</a>	STAG1; TMEPAI; PMEPA1
<a href="#">PNRC1</a>	PNRC	proline-rich nuclear receptor coactivator 1	nuclear receptor coregulator	coA	direct	LBD	<a href="#">Zhou D et al. Mol Endocrinol 14:986-998, 2000</a>	B4-2; PRR2; PROL2; PNAS- 145; RP11- 63L7.5; PNRC1
<a href="#">PNRC2</a>	proline-rich nuclear receptor coactivator 2	proline-rich nuclear receptor coactivator 2	nuclear receptor coregulator	-	direct	LBD	<a href="#">Zhou D et al. Mol Endocrinol 14:986-998, 2000</a>	FLJ20312; MGC99541; PNRC2
<a href="#">POU2F1</a>	Oct-1	POU class 2 homeobox 1; oct-1; octamer-binding transcription factor 1	transcription factor	coA/coR	direct	DBD	<a href="#">Gonzalez MI et al. Mol Cell Endocrinol 190:39-49, 2002</a> <a href="#">Prefontaine GG et al. J Biol Chem 274:26713-26719, 1999</a> <a href="#">Wang Q et al. Mol Cell 27:380-392, 2007</a> <a href="#">Jariwala U et al. Prostate 69:392-400, 2009</a>	OCT1; OTF1; POU2F1
<a href="#">POU2F2</a>	Oct-2	POU domain, class 2, transcription factor 2; oct-2; octamer-binding transcription factor 2	transcription factor	-	direct	DBD	<a href="#">Prefontaine GG et al. J Biol Chem 274:26713-26719, 1999</a>	OCT2; OTF2; Oct-2; POU2F2
<a href="#">POU3F3</a>	Brn-1	POU class 3 homeobox 3	transcription factor	coA/coR	direct	-	<a href="#">Gonzalez MI et al. Mol Cell Endocrinol 190:39-49, 2002</a>	BRN1; OTF8; POU3F3
<a href="#">PPID</a>	cyclophilin 40	peptidyl-prolyl cis- trans isomerase D; cyclophilin D; Cyp40	other function	-	direct	-	<a href="#">Periyasamy S et al. Endocrinology 148:4716-4726, 2007</a>	CYPD; CYP-40; MGC33096; PPID



Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">PPP1CA</a>	PP1α	serine/threonine-protein phosphatase PP1-alpha catalytic subunit; protein phosphatase 1, catalytic subunit, alpha isoform	kinase/ phosphatase	coA	direct	-	<a href="#">Chen S et al. J Biol Chem 284:25576-25584, 2009</a>	PP-1A; PPP1A; MGC1674; MGC15877; PP1alpha; PPP1CA
<a href="#">PPP2R1A</a>	PP2A	serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform; PP2A subunit A isoform PR65-alpha	kinase/ phosphatase	coR	direct	LBD	<a href="#">Yang CS et al. Mol Cell Biol 25:1298-1308, 2005</a> <a href="#">Yang CS et al. Mol Cell Biol 27:3390-3404, 2007</a>	PR65A; MGC786; PP2AAALPHA; PP2A-Aalpha; PPP2R1
<a href="#">PQBP1</a>	PQBP-1	polyglutamine binding protein 1; polyglutamine(Q) tract binding protein-1	other function	-	direct	NTD	<a href="#">Iwamoto K et al. Gene 259:69-73, 2000</a>	SHS; MRX55; MRXS3; MRXS8; NPW38; RENS1; PQBP1
<a href="#">PRDX1</a>	PRDX1	peroxiredoxin 1	other function	coA	direct	-	<a href="#">Park SY et al. Cancer Res 67:9294-9303, 2007</a> <a href="#">Chhipa RR et al. Mol Cancer Res 7:1543-1552, 2009</a>	PAG; PAGA; PAGB; PRX1; PRXI; MSP23; NKEFA; TDPX2; PRDX1
<a href="#">PRIC285</a>	PDIP1alpha	PPAR-alpha interacting complex protein 285	nuclear receptor coregulator	coA	-	-	<a href="#">Tomaru T et al. Endocrinology 147:377-388, 2006</a>	PRIC285; PDIP-1; FLJ00244; KIAA1769; MGC132634; MGC138228
<a href="#">PRKD1</a>	protein kinase D1	serine/threonine-protein kinase D1; nPKC-D1	kinase/ phosphatase	coR	direct	-	<a href="#">Mak P et al. Biochem Biophys Res Commun 373:618-623, 2008</a> <a href="#">Hassan S et al. Oncogene 28:4386-4396, 2009</a>	PKD; PKCM; PRKCM; PKC-MU; PRKD1; PKD1
<a href="#">PRKDC</a>	DNA-PKc	protein kinase, DNA-activated, catalytic polypeptide	DNA repair	coA	indirect	-	<a href="#">Mayeur GL et al. J Biol Chem 280:10827-10833, 2005</a>	HYRC; p350; DNAPK; DNP1; HYRC1; XRCC7; DNA-PKcs; PRKDC
<a href="#">PRMT1</a>	PRMT1	Protein arginine methyltransferase 1; HMT1 hnRNP methyltransferase-like 2; protein arginine N-methyltransferase 1	histone histone methyltransferase / demethylase	coA	indirect	-	<a href="#">Wang H et al. Science 293:853-857, 2001</a> <a href="#">Lee DY et al. Mol Endocrinol 21:1381-1393, 2007</a>	ANM1; HCP1; IR1B4; HRMT1L2; PRMT1
<a href="#">PRMT2</a>	PRMT2	protein arginine N-methyltransferase 2	other function	coA	direct	AR (325-919)	<a href="#">Meyer R et al. J Steroid Biochem Mol Biol 107:1-14, 2007</a>	HRMT1L1; MGC111373; PRMT2

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">PRPF6</a>	p102 U5snRNP-BP/ANT-1	PRP6 pre-mRNA processing factor 6 homolog; U5 snRNP-associated 102 kDa protein; p102 U5 small nuclear ribonucleoprotein particle-binding protein; androgen receptor N-terminal domain transactivating protein-1	splicing & RNA metabolism	coA	direct	NTD	<a href="#">Zhao Y et al. J Biol Chem 277:30031-30039, 2002</a> <a href="#">Fan S et al. Biochem Biophys Res Commun 341:192-201, 2006</a>	TOM; ANT-1; hPrp6; U5-102K; C20orf14; PRPF6
<a href="#">PSMC3</a>	Tat-binding protein-1	26S protease regulatory subunit 6A; TBP-1; proteasome 26S subunit ATPase 3; 26S proteasome AAA-ATPase subunit RPT5	ubiquitin-proteasome system	coA	direct	-	<a href="#">Satoh T et al. Endocrinology 150:3283-3290, 2009</a>	TBP1; MGC8487; PSMC3
<a href="#">PSMC3IP</a>	GT198	PSMC3 interacting protein; GT198 alternative; TBP-1 interacting protein	nuclear receptor coregulator	coA	direct	DBD	<a href="#">Ko L et al. Mol Cell Biol 22:357-369, 2002</a>	HOP2; GT198; TBPIP; HUMGT198A; PSMC3IP
<a href="#">PSPC1</a>	PSP1	paraspeckle protein 1	splicing & RNA metabolism	coA	direct	NTD-DBDh	<a href="#">Ishitani K et al. Biochem Biophys Res Commun 306:660-665, 2003</a> <a href="#">Kuwahara S et al. Biol Reprod 75:352-359, 2006</a>	PSP1; FLJ10955; DKFZp566B1447; PSPC1
<a href="#">PTEN</a>	PTEN	phosphatase and tensin homolog	other function	coR	direct	DBD	<a href="#">Li P et al. J Biol Chem 276:20444-20450, 2001</a> <a href="#">Nan B et al. J Mol Endocrinol 31:169-183, 2003</a> <a href="#">Lin HK et al. Mol Endocrinol 18:2409-2423, 2004</a>	BZS; MHAM; TEP1; MMAC1; PTEN1; 10q23del; MGC11227; PTEN
<a href="#">PXN</a>	Paxillin	paxillin	signal integrator/transducer, scaffold or adaptor	coA	direct	-	<a href="#">Kasai M et al. Cancer Res 63:4927-4935, 2003</a>	FLJ16691; PXN
<a href="#">RAD54L2</a>	ARIP4	RAD54-like 2; mouse: androgen receptor-interacting protein 4	chromatin remodeling complex component	coA	direct	DBDh	<a href="#">Rouleau N et al. Mol Biol Cell 13:2106-2119, 2002</a> <a href="#">Domanskyi A et al. Biochem J 393:789-795, 2006</a>	HSPC325; FLJ21396; FLJ22400; KIAA0809; SRISNF2L; RAD54L2; Mouse: Arip4; Rad54l2

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">RAD9A</a>	Rad9	RAD9 homolog	DNA repair	coR	direct	DBD-LBD, LBD	<a href="#">Wang L et al. Mol Cell Biol 24:2202-2213, 2004</a>	RAD9; RAD9A
<a href="#">RAN</a>	ARA24/Ran	ras-related nuclear protein; AR associated protein 24	signal integrator/transducer, scaffold or adaptor	coA	direct	NTD	<a href="#">Hsiao PW et al. J Biol Chem 274:20229-20234, 1999</a> <a href="#">Harada N et al. Biochem Biophys Res Commun 373:373-377, 2008</a>	TC4; Gsp1; ARA24; RAN
<a href="#">RANBP10</a>	RanBP10	ran-binding protein 10	other function	coA	direct	-	<a href="#">Harada N et al. Biochem Biophys Res Commun 368:121-125, 2008</a>	FLJ31165; KIAA1464; RANBP10
<a href="#">RANBP9</a>	RanBPM	RAN binding protein 9	signal integrator/transducer, scaffold or adaptor	coA	direct	NTD, DBD	<a href="#">Rao MA et al. J Biol Chem 277:48020-48027, 2002</a>	RANBPM; RANBP9
<a href="#">RB1</a>	Rb	retinoblastoma 1; retinoblastoma	cell cycle regulator	coA	direct	NTD-DBD	<a href="#">Yeh S et al. Biochem Biophys Res Commun 248:361-367, 1998</a> <a href="#">Lu J and Danielsen M, J Biol Chem 273:31528-31533, 1998</a>	FKBP
<a href="#">RBAK</a>	RbaK	RB-associated KRAB repressor	cell cycle regulator	coA	direct	NTD-DBD, LBD	<a href="#">Hofman K et al. J Mol Endocrinol 31:583-596, 2003</a>	ZNF769; RBAK
<a href="#">RBM14</a>	PSP2	RNA-binding protein 14; paraspeckle protein 2	splicing & RNA metabolism	-	direct	NTD-DBDh	<a href="#">Ishitani K et al. Biochem Biophys Res Commun 306:660-665, 2003</a>	SIP; COAA; PSP2; SYTIP1; TMEM137; MGC15912; MGC31756; DKFZp779J0927 ; RBM14
<a href="#">RCHY1</a>	ARNIP/PIRH2	ring finger and CHY zinc finger domain containing 1; AR N-terminal interacting protein	ubiquitin-proteasome system	coA	direct	NTD	<a href="#">Beitel LK et al. J Mol Endocrinol 29:41-60, 2002</a> <a href="#">Logan IR et al. Mol Cell Biol 26:6502-6510, 2006</a>	ARNIP; CHIMP; PIRH2; RNF199; ZNF363; hARNIP; PRO1996; DKFZp586C1620 ; RCHY1
<a href="#">REL</a>	c-Rel	C-Rel proto-oncogene protein; v-rel reticuloendotheliosis viral oncogene homolog	transcription factor	coR	direct	-	<a href="#">Mukhopadhyay NK et al. Exp Cell Res 312:3782-3795, 2006</a>	C-Rel; REL
<a href="#">RELA</a>	RelA / NFkB3	v-rel reticuloendotheliosis viral oncogene homolog A	transcription factor	coR	direct	NTD-DBD	<a href="#">Palvimo JJ et al. J Biol Chem 271:24151-24156, 1996</a> <a href="#">McKay LI and Cidlowski JA Mol Endocrinol 12:45-56, 1998</a> <a href="#">Zhang L et al. Am J Pathol 175:489-499, 2009</a>	p65; NFkB3; MGC131774; RELA
<a href="#">RNASEL</a>	RNase L	ribonuclease L	signal integrator/transducer, scaffold or adaptor	coR	direct	LBD	<a href="#">Bettoun DJ et al. J Biol Chem 280:38898-38901, 2005</a>	RNS4; PRCA1; MGC104972; MGC133329; DKFZp781D0812 6; RNASEL

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">RNF14</a>	ARA54	ring finger protein 14; AR-associated protein 54	ubiquitin-proteasome system	coA	direct	LBD	<a href="#">Kang HY et al. J Biol Chem 274:8570-8576, 1999</a> <a href="#">Yang Z et al. Endocrinology 148:1340-1349, 2007</a> <a href="#">Miyamoto H et al. J Biol Chem 277:4609-4617, 2002</a>	ARA54; HFB30; TRIAD2; FLJ26004; HRIHFB2038; RNF14
<a href="#">RNF4</a>	SNURF/RNF4	ring finger protein 4; small nuclear RING finger protein	ubiquitin-proteasome system	coA	direct	DBDh	<a href="#">Moilanen AM et al. Mol Cell Biol 18:5128-5139, 1998</a> <a href="#">Poukka H et al. J Biol Chem 275:571-579, 2000</a> <a href="#">Poukka H et al. J Cell Sci 113:2991-3001, 2000</a>	SNURF; RES4-26; RNF4
<a href="#">RNF6</a>	RNF6	RING finger protein 6	ubiquitin-proteasome system	coA	direct	hLBD aa 622-919	<a href="#">Xu K et al. Cancer Cell 15:270-282, 2009</a>	DKFZp686P0776 ; RNF6
<a href="#">RPS6KA3</a>	RSK2	ribosomal protein S6 kinase alpha-3; RSK-2	kinase/ phosphatase	coA	-	-	<a href="#">Clark DE et al. Cancer Res 65:3108-3116, 2005</a>	CLS; RSK; HU-3; RSK2; MRX19; ISPK-1; p90-RSK2; pp90RSK2; MAPKAPK1B; S6K-alpha3; RPS6KA3
<a href="#">RREB1</a>	RREB-1	ras-responsive element-binding protein 1; zinc finger motif enhancer binding protein 1	transcription factor	coR	direct	-	<a href="#">Mukhopadhyay NK et al. Mol Endocrinol 21:2056-2070, 2007</a>	HNT; FINB; LZ321; Zep-1; RREB-1; RREB1
<a href="#">RUNX2</a>	AML3/CBFa1/RUNX2	runt-related transcription factor 2; CBF-alpha 1; acute myeloid leukemia 3 protein	transcription factor	coA/coR	direct	DBD	<a href="#">Ning YM and Robins DM, J Biol Chem 274:30624-30630, 1999</a> <a href="#">Baniwal SK et al. Mol Endocrinol 23:1203-1214, 2009</a> <a href="#">Kawate H et al. J Steroid Biochem Mol Biol 105:46-56, 2007</a>	RP1-166H4.1, AML3, CBFA1, CCD, CCD1, MGC120022, MGC120023, OSF2, PEA2aA, PEBP2A1, PEBP2A2, PEBP2aA, PEBP2aA1
<a href="#">RWDD1</a>	Rwdd1	RWD domain-containing protein 1; DRG family-regulatory protein 2	other function	coA	-	-	<a href="#">Kang N et al. Cell Mol Immunol 5:279-285, 2008</a>	CGI-24; PTD013; RWDD1
<a href="#">RXRA</a>	RXRalpha	retinoic acid receptor RXR-alpha; nuclear receptor subfamily 2 group B member 1	transcription factor	coA/coR	direct	LBD	<a href="#">Chuang KH et al. Mol Endocrinol 19:1200-1212, 2005</a>	NR2B1; FLJ00280; FLJ00318; FLJ16020; FLJ16733; MGC102720; RXRA

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<a href="#">SART3</a>	TIP110	squamous cell carcinoma antigen recognized by T cells 3; tat-interacting protein of 110 kDa	nuclear receptor coregulator	coR	direct	-	<a href="#">Liu Y et al. J Biol Chem 279:21766-21773, 2004</a>	P100; p110; DSAP1; TIP110; KIAA0156; MGC138188; p110(nrb); RP11-13G14; SART3
<a href="#">SENP1</a>	SENP1	sentrin/SUMO-specific protease 1	sumoylation	coA	indirect	-	<a href="#">Cheng J et al. Mol Cell Biol 24:6021-6028, 2004</a> <a href="#">Kaikkonen S et al. Mol Endocrinol 23:292-307, 2009</a>	SuPr-2; SENP1
<a href="#">SFN</a>	14-3-3 sigma	14-3-3 protein sigma	other function	coA	-	-	<a href="#">Quayle SN and Sadar MD. Cancer Lett 254:137-145, 2007</a>	YWHAS; SFN
<a href="#">SFPQ</a>	PSF	splicing factor, proline- and glutamine-rich; PTB-associated splicing factor	splicing & RNA metabolism	coA/coR	direct	NTD-DBDh	<a href="#">Ishitani K et al. Biochem Biophys Res Commun 306:660-665, 2003</a> <a href="#">Kuwahara S et al. Biol Reprod 75:352-359, 2006</a> <a href="#">Dong X et al. Mol Cell Biol 27:4863-4875, 2007</a>	PSF; POMP100; SFPQ
<a href="#">SFRP1</a>	secreted frizzled-related protein-1; sFRP-1	secreted frizzled-related protein 1	signal integrator/transducer, scaffold or adaptor	coR	-	-	<a href="#">Kawano Y et al. Br J Cancer 100:1165-1174, 2009</a>	FRP; FRP1; FrzA; FRP-1; SARP2; SFRP1
<a href="#">SGK1</a>	serum/glucocorticoid-induced protein kinase-1	serine/threonine-protein kinase Sgk1; serum/glucocorticoid-regulated kinase 1	kinase/phosphatase	coA	-	-	<a href="#">Shanmugam I et al. Cell Death Differ 14:2085-2094, 2007</a>	SGK; SGK1
<a href="#">SGTA</a>	alphaSGT	small glutamine-rich tetratricopeptide repeat-containing protein alpha; alpha-SGT	other function	coR	direct	hinge	<a href="#">Buchanan G et al. Cancer Res 67:10087-10096, 2007</a>	SGT; hSGT; alphaSGT; SGTA
<a href="#">SIRT1</a>	SIRT1	sirtuin 1; sirtuin type 1; sirtuin (silent mating type information regulation 2 homolog) 1 ( <i>S. cerevisiae</i> );	histone acetyltransferase/deacetylase	coR	direct	hinge	<a href="#">Fu M et al. Mol Cell Biol 26:8122-8135, 2006</a> <a href="#">Dai Y et al. Mol Endocrinol 21:1807-1821, 2007</a>	SIR2L1; SIRT1
<a href="#">SMAD1</a>	SMAD1	mothers against decapentaplegic homolog 1; SMAD 1; TGF-beta signaling protein 1	signal integrator/transducer, scaffold or adaptor	coR	direct	-	<a href="#">Qiu T et al. EMBO J 26:346-357, 2007</a>	BSP1; JV41; JV4-1; MADH1; MADR1; SMAD1
<a href="#">SMAD3</a>	Smad3	mothers against decapentaplegic homolog 3; SMA- and MAD-related protein 3	signal integrator/transducer, scaffold or adaptor	coA/coR	direct	DBD-LBD, DBD, LBD	<a href="#">Hayes SA et al. Cancer Res 61:2112-2118, 2001</a> <a href="#">Kang HY et al. Proc Natl Acad Sci U S A 98:3018-3023, 2001</a> <a href="#">Chipuk JE et al. J Biol Chem 277:1240-1248, 2002</a>	MADH3; JV15-2; HSPC193; HsT17436; MGC60396; DKFZp586N0721; DKFZp686J10186; SMAD3

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">SMAD4</a>	Smad4	mothers against decapentaplegic homolog 4; SMAD, mothers against DPP homolog 4	signal integrator/transducer, scaffold or adaptor	coR	direct	DBD-LBD, DBD, LBD	<a href="#">Kang HY et al. J Biol Chem 277:43749-43756, 2002</a>	JIP; DPC4; MADH4; SMAD4
<a href="#">SMARCA2</a>	hBRM	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin a2	chromatin remodeling complex component	coA	-	-	<a href="#">Marshall TW et al. J Biol Chem 278:30605-30613, 2003</a>	BRM; SNF2; SWI2; hBRM; Sth1p; BAF190; SNF2L2; SNF2LA; hSNF2a; FLJ36757; MGC74511; SMARCA2
<a href="#">SMARCA4</a>	BRG1	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin a4; BRM/SWI2-related gene 1	chromatin remodeling complex component	coA	-	-	<a href="#">Marshall TW et al. J Biol Chem 278:30605-30613, 2003</a> <a href="#">Huang ZQ et al. EMBO J 22:2146-2155, 2003</a>	BRG1; SNF2; SWI2; BAF190; SNF2L4; SNF2LB; hSNF2b; FLJ39786; SNF2-BETA; SMARCA4
<a href="#">SMARCC1</a>	SRG3/BAF155	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin c1; chromatin remodeling complex BAF155 subunit	chromatin remodeling complex component	coA	direct	DBDh	<a href="#">Hong CY et al. Mol Cell Biol 25:4841-4852, 2005</a>	Rsc8; SRG3; SWI3; BAF155; CRACC1; SMARCC1
<a href="#">SMARCD1</a>	SMARCD1/BAF60a	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily D member 1; BRG1-associated factor 60A; SWI/SNF complex 60 kDa subunit A	chromatin remodeling complex component	coA	direct	LBD	<a href="#">van de Wijngaart DJ et al. Mol Endocrinol 23:1776-1786, 2009</a>	Rsc6p; BAF60A; CRACD1; SMARCD1

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">SMARCE1</a>	BAF57	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin e1; chromatin remodeling complex BRG1-associated factor 57	chromatin remodeling complex component	coA	direct	-	<a href="#">Link KA et al. Mol Cell Biol 25:2200-2215, 2005</a> <a href="#">Link KA et al. Cancer Res 68:4551-4558, 2008</a>	BAF57; SMARCE1
<a href="#">SOD2</a>	manganese superoxide dismutase	superoxide dismutase [Mn], mitochondrial; Mn superoxide dismutase	other function	coR	-	-	<a href="#">Sharifi N et al. Clin Cancer Res 14:6073-6080, 2008</a>	IPOB; MNSOD; MVCD6; SOD2
<a href="#">SORBS3</a>	vinexin-a	sorbin and SH3 domain containing 3	signal integrator/transducer, scaffold or adaptor	coA	direct	-	<a href="#">Tujague M et al. J Biol Chem 279:9255-9263, 2004</a>	SCAM1; SH3D4; SCAM-1; VINEXIN; SORBS3
<a href="#">SOX9</a>	Sox9	transcription factor SOX9; SRY (sex-determining region Y)-box 9 protein	transcription factor	coA/coR	direct	DBD	<a href="#">Wang H et al. Cancer Res 67:528-536, 2007</a>	CMD1; SRA1; CMPD1; SOX9
<a href="#">SP1</a>	Sp1	Sp1 transcription factor	transcription factor	coA	direct	LBD	<a href="#">Darne CH et al. Mol Cell Endocrinol 132:13-23, 1997</a> <a href="#">Yuan H et al. Carcinogenesis 26:793-801, 2005</a>	SP1
<a href="#">SPDEF</a>	PDEF	SAM pointed domain containing ets transcription factor; prostate epithelium-specific Ets transcription factor	transcription factor	coA	direct	DBD	<a href="#">Oettgen P et al. J Biol Chem 275:1216-1225, 2000</a>	PDEF; bA375E1.3; RP11-375E1__A.3; SPDEF
<a href="#">SRA1</a>	SRA	steroid receptor RNA activator 1	other function	coA	-	-	<a href="#">Lanz RB et al. Cell 97:17-27, 1999</a> <a href="#">Kurusu T et al. Prostate Cancer Prostatic Dis 9:173-178, 2006</a>	SRA; SRAP; STRAA1; pp7684; MGC87674; SRA1
<a href="#">SRC</a>	Src	proto-oncogene tyrosine-protein kinase Src	kinase/phosphatase	-	direct	NTD	<a href="#">Migliaccio A et al. EMBO J 19:5406-5417, 2000</a> <a href="#">Unni E et al. Cancer Res 64:7156-7168, 2004</a> <a href="#">Asim M et al. Oncogene 27:3596-3604, 2008</a>	ASV; SRC1; c-SRC; p60-Src; SRC
<a href="#">SRCAP</a>	SRCAP	Snf2-related CBP activator protein; Swi2/Snf2-related ATPase homolog, domino homolog 1	chromatin remodeling complex component	coA	-	-	<a href="#">Monroy MA et al. Mol Endocrinol 17:2519-2528, 2003</a>	EAF1; SWR1; DOMO1; FLJ44499; KIAA0309; SRCAP
<a href="#">SREBF1</a>	SREBP-1c	sterol regulatory element-binding protein 1	transcription factor	coR	direct	NTD-DBDh	<a href="#">Suh JH et al. Mol Cancer Res 6:314-324, 2008</a>	SREBP1; bHLHd1; SREBP-1c; SREBF1

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<a href="#">SRY</a>	SRY	sex determining region Y; testis-determining factor	transcription factor	coR	direct	DBD	<a href="#">Yuan X et al. J Biol Chem 276:46647-46654, 2001</a>	TDF; TDY; SRY
<a href="#">STAT3</a>	STAT3	signal transducer and activator of transcription 3	signal integrator/transducer, scaffold or adaptor	coA	direct	NTD	<a href="#">Chen T et al. Cancer Res 60:2132-2135, 2000</a> <a href="#">Matsuda T et al. Biochem Biophys Res Commun 283:179-187, 2001</a> <a href="#">De Miguel F et al. Nucl Recept 1:3, 2003</a> <a href="#">Yamamoto T et al. Biochem Biophys Res Commun 306:610-615, 2003</a>	APRF; HIES; FLJ20882; MGC16063; STAT3
<a href="#">STAT5A</a>	STAT5a	signal transducer and activator of transcription 5A	signal integrator/transducer, scaffold or adaptor	coA	direct	-	<a href="#">Carsol JL et al. Mol Endocrinol 16:1696-1710, 2002</a> <a href="#">Tan SH et al. Cancer Res 68:236-248, 2008</a>	MGF; STAT5; STAT5A
<a href="#">STAT5B</a>	STAT5b	signal transducer and activator of transcription 5B; transcription factor STAT5B	signal integrator/transducer, scaffold or adaptor	coA	direct	-	<a href="#">Tan SH et al. Cancer Res 68:236-248, 2008</a>	STAT5; STAT5B
<a href="#">STUB1</a>	CHIP	STIP1 homology and U-box containing protein 1; C terminus of HSC70-Interacting Protein	ubiquitin-proteasome system	coR	direct	NTD, DBD, LBD	<a href="#">Rees I et al. Biochim Biophys Acta 1764:1073-1079, 2006</a> <a href="#">He B et al. J Biol Chem 279:30643-30653, 2004</a> <a href="#">Cardozo CP et al. Arch Biochem Biophys 410:134-140, 2003</a>	CHIP; UBOX1; HSPABP2; NY-CO-7; SDCCAG7; STUB1
<a href="#">SUMO1</a>	SUMO-1	SMT3 suppressor of mif two 3 homolog 1; ubiquitin-like 1 (sentrin)	sumoylation	coR	-	-	<a href="#">Poukka H et al. Proc Natl Acad Sci USA 97:14145-14150, 2000</a> <a href="#">Zheng Z et al. J Biol Chem 281:4002-4012, 2006</a>	GMP1; PIC1; SMT3; UBL1; DAP-1; OFC10; SENP2; SMT3C; SMT3H3; SUMO-1; SUMO1
<a href="#">SUMO2</a>	SUMO-2	SMT3 suppressor of mif two 3 homolog 2; sentrin 2; small ubiquitin-like modifier 2, isoform a	sumoylation	coA	-	-	<a href="#">Zheng Z et al. J Biol Chem 281:4002-4012, 2006</a>	HSMT3; SMT3B; SMT3H2; MGC117191; SUMO2
<a href="#">SUMO3</a>	SUMO-3	small ubiquitin-like modifier protein 3; SMT3 suppressor of mif two 3 homolog 1	sumoylation	coA/coR	-	-	<a href="#">Zheng Z et al. J Biol Chem 281:4002-4012, 2006</a>	SMT3A; SMT3H1; SUMO-3; SUMO3
<a href="#">SVIL</a>	Supervillin	supervillin; archvillin	cytoskeletal protein	coA	direct	NTD, C-term	<a href="#">Ting HJ et al. Proc Natl Acad Sci U S A 99:661-666, 2002</a> <a href="#">Jasavala R et al. Mol Cell Proteomics 6:252-271, 2007</a>	DKFZp686A1719 1; SVIL



Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">TAGLN</a>	Transgelin	transgelin	cytoskeletal protein	coR	indirect	-	<a href="#">Yang Z et al. Mol Endocrinol 21:343-358, 2007</a>	SM22; SMCC; TAGLN1; WS3-10; DKFZp686B01212; DKFZp686P11128; TAGLN
<a href="#">TCF21</a>	Pod-1	transcription factor 21; pod-1	transcription factor	coR	direct	DBDh	<a href="#">Hong CY et al. Mol Endocrinol 19:2245-2257, 2005</a>	POD1; bHLHa23; TCF21
<a href="#">TCF7L2</a>	Tcf4	transcription factor 7-like 2; T-cell factor 4	signal integrator/transducer, scaffold or adaptor	coR	direct	DBD	<a href="#">Amir AL et al. J Biol Chem 278:30828-30834, 2003</a> <a href="#">Singh R et al. Endocrinology 150:1259-1268, 2009</a>	TCF4; TCF-4; TCF7L2
<a href="#">TDG</a>	thymine-DNA glycosylase	G/T mismatch-specific thymine DNA glycosylase;	DNA repair	-	direct	-	<a href="#">Chen D et al. J Biol Chem 278:38586-38592, 2003</a>	TDG
<a href="#">TGFB11</a>	ARA55	transforming growth factor beta 1 induced transcript 1; androgen receptor coactivator ARA55	signal integrator/transducer, scaffold or adaptor	coA	direct	LBD	<a href="#">Fujimoto N et al. J Biol Chem 274:8316-8321, 1999</a> <a href="#">Heitzer MD and DeFranco DB Cancer Res 66:7326-7333, 2006</a>	HIC5; ARA55; HIC-5; TSC-5; TGFB11
<a href="#">TGIF1</a>	TGIF	TG-interacting factor; 5'TG3' interacting factor	nuclear receptor coregulator	coR	direct	DBD	<a href="#">Sharma M and Sun Z, Mol Endocrinol 15:1918-1928, 2001</a>	HPE4; TGIF; MGC5066; MGC39747; TGIF1
<a href="#">TMF1</a>	ARA160	TATA element modulatory factor 1; AR-associated protein 160	nuclear receptor coregulator	coA	direct	NTD, DBD-LBD	<a href="#">Hsiao PW and Chang C, J Biol Chem 274:22373-22379, 1999</a>	TMF; ARA160; TMF1
<a href="#">TNK2</a>	Ack1	tyrosine kinase, non-receptor, 2	signal integrator/transducer, scaffold or adaptor	coA	direct	NTD	<a href="#">Mahajan NP et al. Proc Natl Acad Sci USA 104:8438-8443, 2007</a>	ACK; ACK1; FLJ44758; FLJ45547; p21cdc42Hs; TNK2
<a href="#">TOB1</a>	Tob1	transducer of ERBB2, 1; transducer of erbB-2	other function	coR	direct	-	<a href="#">Kawate H et al. Mol Cell Endocrinol 230:77-86, 2005</a>	TOB; TROB; APRO6; PIG49; TROB1; MGC34446; MGC104792; TOB1
<a href="#">TOB2</a>	Tob2	transducer of ERBB2, 2	other function	coR	-	-	<a href="#">Kawate H et al. Mol Cell Endocrinol 230:77-86, 2005</a>	TOB4; TOBL; TROB2; TOB2
<a href="#">TP53</a>	p53		transcription factor	coR	indirect	-	<a href="#">Shenk JL et al. J Biol Chem 276:38472-38479, 2001</a> <a href="#">Cronauer MV et al. Oncogene 23:3541-3549, 2004</a>	

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">TPD52</a>	PrLZ	tumor protein D52; prostate and colon associated protein		coA endogenous PSA	-	-	<a href="#">Li L et al. Mol Carcinog 48:432-440, 2009</a>	D52; N8L; PC-1; PrLZ; hD52; TPD52
<a href="#">TRIM24</a>	TIF1-a	transcriptional intermediary factor 1 alpha; tripartite motif protein 24	nuclear receptor coregulator	coA	direct	-	<a href="#">Teyssier C et al. Mol Endocrinol 20:1276-1286, 2006</a> <a href="#">Thenot S et al. J Biol Chem 272:12062-12068, 1997</a> <a href="#">Kikuchi M et al. Biochim Biophys Acta 1793:1828-1836, 2009</a>	PTC6; TF1A; TIF1; RNF82; TIF1A; hTIF1; TIF1ALPHA; TRIM24
<a href="#">TRIM68</a>	TRIM68	E3 ubiquitin-protein ligase TRIM68; tripartite motif-containing protein 68	ubiquitin-proteasome system	coA	direct	LBD	<a href="#">Miyajima N et al. Cancer Res 68:3486-3494, 2008</a>	SS56; GC109; SS-56; RNF137; FLJ10369; MGC126176; TRIM68
<a href="#">TRIP4</a>	Asc-1	thyroid hormone receptor interactor 4; activating signal cointegrator 1	nuclear receptor coregulator	coA	direct	hinge-LBD	<a href="#">Lee YS et al. Biol Reprod 67:1580-1587, 2002</a>	ASC-1; HsT17391; TRIP4
<a href="#">TSG101</a>	TSG101	tumor susceptibility gene 101; tumor susceptibility protein	ubiquitin-proteasome system	coA/coR	indirect	-	<a href="#">Sun Z et al. Cancer 86:689-696, 1999</a> <a href="#">Burgdorf S et al. J Biol Chem 279:17524-17534, 2004</a>	TSG10; VPS23; TSG101
<a href="#">UBA3</a>	Uba3	ubiquitin-activating enzyme 3	sumoylation	coR	indirect	-	<a href="#">Fan M et al. Mol Endocrinol 16:315-330, 2002</a>	UBE1C; hUBA3; MGC22384; DKFZp566J164; UBA3
<a href="#">UBE2I</a>	Ubc9	ubiquitin-conjugating enzyme E2I; SUMO-1-protein ligase; ubiquitin conjugating enzyme 9	sumoylation	coA	direct	DBDh	<a href="#">Poukka H et al. J Biol Chem 274:19441-19446, 1999</a> <a href="#">Chang YL et al. Int J Biochem Cell Biol 39:1035-1046, 2007</a>	P18; UBC9; C358B7.1; UBE2I
<a href="#">UBE2L3</a>	UBCH7	ubiquitin-conjugating enzyme E2L 3; ubiquitin-conjugating enzyme UBCH7	ubiquitin-proteasome system	coA	-	-	<a href="#">Verma S et al. Mol Cell Biol 24:8716-8726, 2004</a>	E2-F1; L-UBC; UBCH7; UbcM4; UBE2L3
<a href="#">UBE3A</a>	E6-AP	ubiquitin protein ligase E3A; E6-associated protein; human papilloma virus E6-associated protein	ubiquitin-proteasome system	coA	direct	NTD	<a href="#">Nawaz Z et al. Mol Cell Biol 19:1182-1189, 1999</a> <a href="#">Khan OY et al. Mol Endocrinol 20:544-559, 2006</a>	AS; ANCR; E6-AP; HPVE6A; EPVE6AP; FLJ26981; UBE3A
<a href="#">USF2</a>	USF2	upstream stimulatory factor 2	transcription factor	coA	direct/indirect	-	<a href="#">Kivinen A et al. Prostate 59:190-202, 2004</a> <a href="#">Sun Q et al. Mol Endocrinol 23:2038-2047, 2009</a>	FIP; bHLHb12; USF2
<a href="#">USP10</a>	USP10	ubiquitin specific protease 10	ubiquitin-proteasome system	coA	direct	-	<a href="#">Faus H et al. Mol Cell Endocrinol 245:138-146, 2005</a>	UBPO; MGC2621; KIAA0190; USP10

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">USP22</a>	USP22	ubiquitin carboxyl-terminal hydrolase 22; ubiquitin specific protease 22	ubiquitin-proteasome system	coA	direct	-	<a href="#">Zhao Y et al. Mol Cell 29:92-101, 2008</a>	USP3L; KIAA1063; USP22
<a href="#">UXT</a>	ART-27	ubiquitously-expressed transcript proein	nuclear receptor coregulator	coA	direct	NTD	<a href="#">Markus SM et al. Mol Biol Cell 13:670-682, 2002</a>	STAP1; ART-27; UXT
<a href="#">VAV3</a>	Vav3	vav 3 guanine nucleotide exchange factor	signal integrator/transducer, scaffold or adaptor	coA	indirect	-	<a href="#">Lyons LS and Burnstein KL, Mol Endocrinol 20:1061-1072, 2006</a> <a href="#">Dong Z et al. Mol Endocrinol 20:2315-2325, 2006</a> <a href="#">Liu Y et al. Cancer Res 68:6396-6406, 2008</a>	FLJ40431; VAV3
<a href="#">WDR77</a>	p44/MEP50	WD repeat domain 77; androgen receptor cofactor p44	splicing & RNA metabolism	coA	direct	-	<a href="#">Hosohata K et al. Mol Cell Biol 23:7019-7029, 2003</a>	p44; MEP50; MGC2722; HKMT1069; Nbla10071; RP11-552M11.3; WDR77
<a href="#">WHSC1</a>	NSD2	probable histone-lysine N-methyltransferase NSD2	histone histone methyltransferase / demethylase	coA	direct	DBD	<a href="#">Kang HB et al. FEBS Lett 583:1880-1886, 2009</a>	WHS; NSD2; TRX5; MMSET; REIIBP; FLJ23286; KIAA1090; MGC176638; WHSC1
<a href="#">WIPI1</a>	WIPI-1alpha	WD repeat domain phosphoinositide-interacting protein 1; WIPI-1 alpha	other function	-	direct	-	<a href="#">Proikas-Cezanne T et al. Oncogene 23:9314-9325, 2004</a>	ATG18; WIPI49; FLJ10055; WIPI1
<a href="#">XRCC5</a>	Ku80	ATP-dependent DNA helicase II; Ku autoantigen, 80kDa; X-ray repair complementing defective repair in Chinese hamster cells 5	DNA repair	coA	direct	LBD	<a href="#">Mayeur GL et al. J Biol Chem 280:10827-10833, 2005</a>	KU80; KUB2; Ku86; NFIV; KARP1; KARP-1; FLJ39089; XRCC5
<a href="#">XRCC6</a>	Ku70	ATP-dependent DNA helicase II, 70 kDa subunit; Ku autoantigen, 70kDa; X-ray repair complementing defective repair in Chinese hamster cells 6	DNA repair	coA	direct	LBD	<a href="#">Mayeur GL et al. J Biol Chem 280:10827-10833, 2005</a>	ML8; KU70; TLAA; CTC75; CTCBF; G22P1; XRCC6

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
<a href="#">YWHAH</a>	14-3-3 protein eta	14-3-3 protein eta; tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide	signal integrator/transducer, scaffold or adaptor	coA	direct	-	<a href="#">Zilliacus J et al. Mol Endocrinol 15:501-511, 2001</a> <a href="#">Titus MA et al. Clin Cancer Res 15:7571-7581, 2009</a>	YWHA1; YWHAH
<a href="#">YY1</a>	Yin Yang 1	transcriptional repressor protein YY1; Yin and Yang 1 protein	transcription factor	coA/coR	direct	DBD-LBD	<a href="#">Deng Z et al. Oncogene 28:3746-3757, 2009</a>	DELTA; NF-E1; UCRBP; INO80S; YIN-YANG-1; YY1
<a href="#">ZMIZ1</a>	hZimp10	retinoic acid induced 17; PIAS-like protein hZimp10; zinc finger-containing, Miz1, PIAS-like protein on chromosome 10	sumoylation	coA	direct	NTD	<a href="#">Sharma M et al. Embo J 22:6101-6114, 2003</a> <a href="#">Beliakoff J and Sun Z. Nucl Recept Signal 4:e017, 2006</a>	MIZ; RAI17; Zimp10; hZIMP10; FLJ13541; KIAA1224; ZMIZ1
<a href="#">ZMIZ2</a>	hZimp7	zinc finger, MIZ-type containing 2	sumoylation	coA	direct	NTD, LBD	<a href="#">Huang CY et al. Mol Endocrinol 19:2915-2929, 2005</a> <a href="#">Beliakoff J and Sun Z. Nucl Recept Signal 4:e017, 2006</a>	NET27; ZIMP7; hZIMP7; KIAA1886; DKFZp761I2123; ZMIZ2
<a href="#">ZNF318</a>	TZF	zinc finger protein 318; testicular zinc finger	nuclear receptor coregulator	coR	direct	NTD	<a href="#">Ishizuka M et al. Biochem Biophys Res Commun 331:1025-1031, 2005</a> <a href="#">Tao RH et al. Mol Cell Endocrinol 247:150-165, 2006</a> <a href="#">Tao RH et al. Biochem Biophys Res Commun 341:515-521, 2006</a>	TZF; ZFP318; FLJ21852; HRIHFB2436; ZNF318
<a href="#">ZNF451</a>	ZNF451	zinc finger protein 451; coactivator for steroid receptors	sumoylation	coA	direct/indirect	-	<a href="#">Karvonen U et al. J Mol Biol 382:585-600, 2008</a>	COASTER; FLJ23421; FLJ53246; FLJ90693; KIAA0576; KIAA1702; MGC26701; dJ41711.1; ZNF451
	E1A (Ad5)	control protein E1A; E1A nucleoprotein (Human adenovirus 5)		coR	indirect	-	<a href="#">Hoti N et al. Mol Ther 15:1495-1503, 2007</a>	