ANDROGEN RECEPTOR INTERACTING PROTEINS AND COREGULATORS TABLE

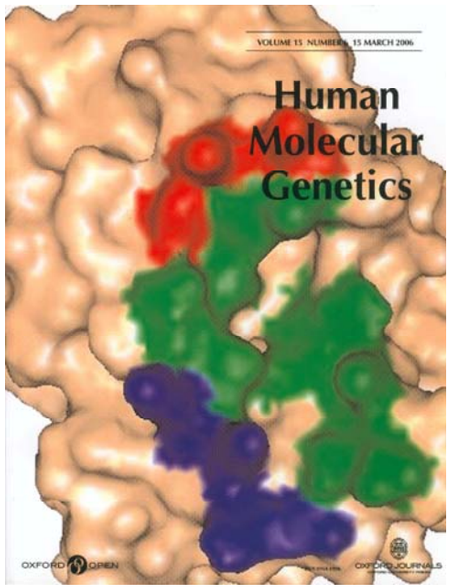

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Table Legend:

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
AATF	AATF/Che-1	apoptosis antagonizing transcription factor	cell cycle regulator	coA	direct	FL-AR	Leister P et al. Signal Transduction 3:17-25, 2003 Burgdorf S et al. J Biol Chem 279:17524-17534, 2004	DED; CHE1; CHE-1; AATF
ACTB	actin, beta	actin, cytoplasmic 1; actin, beta	cytoskeletal protein	coA	-	-	Ting HJ et al. Biochem Biophys Res Commun 319:393-396, 2004	PS1TP5BP1; ACTB
ACTN2	a-actinin-2	actinin, alpha 2	cytoskeletal protein	coA	indirect	-	Huang SM et al. J Mol Endocrinol 32:481-496, 2004	CMD1AA; ACTN2
ACTN4	a-actinin-4	actinin, alpha 4	cytoskeletal protein	coA/coR	-	-	Jasavala R et al. Mol Cell Proteomics 6:252-271, 2007	FSGS; FSGS1; ACTININ-4; DKFZp686K23158; ACTN4
ADAM10	ADAM-10	disintegrin and metalloproteinase domain-containing protein 10	other function	-	direct	-	Arima T et al. Cancer Sci 98:1720-1726, 2007	kuz; AD10; MADM; CD156c; HsT18717; ADAM10
AES	AES	amino-terminal enhancer of split	nuclear receptor coregulator	coR	direct	NTD	Yu X et al. Mol Cell Biol 21:4614-4625, 2001	AES-1, AES-2, ESP1, GRG, GRG5, TLE5
AHR	aryl hydrocarbon receptor	aryl hydrocarbon receptor	transcription factor	coA/coR	direct	-	Ohtake F et al. Nature 446:562-566, 2007 Ohtake F et al. Biochem Pharmacol 77:474-484, 2009	bHLHe76; AHR
AKT1	Akt	AKT1 kinase	kinase/ phosphatase	coR	direct	-	Lin HK et al. Proc Natl Acad Sci U S A 98:7200-7205, 2001 Yang L et al. J Biol Chem 278:16820-16827, 2003	AKT, MGC99656, PKB, PKB-ALPHA, PRKBA, RAC, RAC-ALPHA
ANP32A	pp32	acidic (leucine-rich) nuclear phosphoprotein 32 family, member A	cell cycle regulator	coA	direct	-	Adegbola O and Pasternack GR, Biochem Biophys Res Commun 334:702-708, 2005	LANP; MAPM; PP32; PHAP1; PHAPI; I1PP2A; C15orf1; MGC119787; MGC150373; ANP32A
APPBP2	ARA67/PAT1/ APPBP	amyloid beta precursor protein-binding protein 2	cytoskeletal protein	coR	direct	NTD, LBD, DBD	Zhang Y et al. Mol Cell Biol 24:1044-1057, 2004	PAT1; HS.84084; KIAA0228; APPBP2
APPL1	APPL	adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1	endocytosis	coR	indirect	-	Yang L et al. J Biol Chem 278:16820-16827, 2003	APPL; DIP13alpha; APPL1

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
AR	AR	androgen receptor	transcription factor	-	direct	NTD, DBD, LBD	He B and Wilson EM Mol Cell Biol 23:2135-2150, 2003 He B et al. Mol Cell 16:425-438, 2004 Centenera MM et al. Mol Endocrinol 22:2373-2382, 2008	KD; AIS; TFM; DHTR; SBMA; HYSP1; NR3C4; SMAX1; HUMARA; AR
ARHGDIA	Rho GDIalpha	Rho GDP dissociation inhibitor (GDI) alpha	signal integrator/ transducer, scaffold or adaptor	coA	-	-	Su LF et al. J Biol Chem 276:3231-3237, 2001	GDIA1; RHOGDI; RHOGDI-1; MGC117248; ARHGDIA
ARID1A	ARID1A/hOsa1/BAF250	AT rich interactive domain 1A; OSA1 nuclear protein; BRG1-associated factor 250a	chromatin remodeling complex component	coA	-	-	Inoue H et al. J Biol Chem 277:41674-41685, 2002	B120; P270; BM029; BAF250; C1orf4; BAF250a; SMARCF1; ARID1A
ARID1B	hOsa2	AT-rich interactive domain-containing protein 1B	chromatin remodeling complex component	coA	-	-	Inoue H et al. J Biol Chem 277:41674-41685, 2002	OSA2; 6A3-5; DAN15; P250R; BRIGHT; BAF250B; ELD/OSA1; KIAA1235; RP11-419L10.1; ARID1B
ARID5A	MRF1	AT rich interactive domain 5A; modulator recognition factor I	nuclear receptor coregulator	coR	direct	-	Georgescu SP et al. Mol Endocrinol 19:2491-2501, 2005	MRF1; MRF-1; RP11-363D14; ARID5A
ARRB2	β-arrestin2	beta-arrestin-2; arrestin 3	other function	coR	direct	-	Lakshmikanthan V et al. Proc Natl Acad Sci U S A 106:9379-9384, 2009	ARB2; ARR2; BARR2; DKFZp686L0365; ARRB2
ATAD2	ANCCA/ATAD2	ATPase family AAA domain-containing protein 2; AAA nuclear coregulator cancer-associated protein	other function	coA	direct	DBDh	Zou JX et al. Cancer Res 69:3339-3346, 2009	ANCCA; MGC5254; PRO2000; MGC29843; MGC131938; MGC142216; DKFZp667N1320; ATAD2
ATF2	ATF2	activation transcription factor 2	transcription factor	coR	direct	DBD	Jorgensen JS and Nilson JH, Mol Endocrinol 15:1496-1504, 2001	HB16; CREB2; TREB7; CRE-BP1; MGC111558; ATF2

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

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

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

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

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

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

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

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
FKBP5	FKBP51	FK506 binding protein 5; 51 kDa FK506-binding protein 5	chaperone/ cochaperone	coA	indirect	-	Yong W et al. J Biol Chem 282:5026-5036, 2007 Febbo PG et al. J Urol 173:1772-1777, 2005 Wang Y et al. Oncogene 26:6061-6070, 2007	AIG6, FKBP51, FKBP54, MGC111006, P54, PPIase, Ptg-10
FLNA	filamin A	filamin A, alpha	cytoskeletal protein	coA/coR	direct	hinge	Ozanne DM et al. Mol Endocrinol 14:1618-1626, 2000 Loy CJ et al. Proc Natl Acad Sci U S A 100:4562-4567, 2003 Wang Y et al. Oncogene 26:6061-6070, 2007	FLN; FMD; MNS; OPD; ABPX; FLN1; NHBP; OPD1; OPD2; ABP-280; DKFZp434P031; FLNA
FOS	c-Fos	proto-oncogene c-Fos	transcription factor	coR	direct	DBD	Bubulya A et al. J Biol Chem 271:24583-24589, 1996 Lobaccaro JM et al. Endocrinology 140:350-357, 1999 Sato N et al. J Biol Chem 272:17485-17494, 1997	AP-1; C-FOS; FOS
FOXA1	FoxA1	forkhead box A1; hepatocyte nuclear factor 3, alpha	transcription factor	coA	direct	DBDh	Gao N et al. Mol Endocrinol 17:1484-1507, 2003 Mirosevich J et al. Prostate 66:1013-1028, 2006 Wang Q et al. Mol Cell 27:380-392, 2007	HNF3A; TCF3A; MGC33105; FOXA1
FOXA2	FoxA2	forkhead box A2; hepatocyte nuclear factor 3, beta	transcription factor	coA/coR	direct	DBD	Yu X et al. Mol Endocrinol 20:2418-2431, 2006 Mirosevich J et al. Prostate 66:1013-1028, 2006	HNF3B; TCF3B; MGC19807; FOXA2
FOXG1	FoxG1	forkhead box protein G1	transcription factor	coR	direct	AR (325–919)	Obendorf M et al. J Steroid Biochem Mol Biol 104:195-207, 2007	BF1; BF2; QIN; FKH2; HBF2; HFK1; HFK2; HFK3; KHL2; FHKL3; FKHL1; FKHL2; FKHL3; FKHL4; HBF-1; HBF-2; HBF-3; FOXG1A; FOXG1B; FOXG1C; HBF-G2; FOXG1
FOXH1	FoxH1	forkhead box H1	transcription factor	coR	direct	NTD-DBD	Chen G et al. J Biol Chem 280:36355-36363, 2005	FAST1; FAST-1; FOXH1
FOXO1	FKHR	forkhead box O1; forkhead homolog in rhabdomyosarcoma	transcription factor	coR	direct	LBD	Li P et al. Mol Cell Biol 23:104-118, 2003 Dong XY et al. Cancer Res 66:6998-7006, 2006 Ma Q et al. Mol Endocrinol 23:213-225, 2009 Fan W et al. J Biol Chem 282:7329-7338, 2007	FKH1; FKHR; FOXO1A; FOXO1

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
FOXO3	FOXO3	forkhead box protein O3; forkhead box O3A	transcription factor	-	direct	-	Cornforth AN et al. Oncogene 27:4422-4433, 2008	FOXO2; AF6q21; FKHRL1; FOXO3A; FKHRL1P2; MGC12739; MGC31925; DKFZp781A0677; FOXO3
FOXP1	FOXP1	forkhead box protein P1	transcription factor	coR	direct	-	Takayama K et al. Biochem Biophys Res Commun 374:388-393, 2008	QRF1; 12CC4; hFKH1B; HSPC215; FLJ23741; MGC12942; MGC88572; MGC99551; FOXP1
GADD45GIP1	CR6-interacting factor 1	growth arrest and DNA damage-inducible proteins-interacting protein 1; CR6-interacting factor 1	other function	coR	direct	NTD	Suh JH et al. Mol Endocrinol 22:33-46, 2008	PRG6; CRIF1; CKBBP2; Plinp1; MGC4667; MGC4758; PLINP-1; GADD45GIP1
GAK	GAK/auxillin2	cyclin G associated kinase	endocytosis	coA	direct	NTD, DBD, LBD	Ray MR et al. Int J Cancer 118:1108-1119, 2006	FLJ16629; FLJ40395; MGC99654; GAK
GAPDH	GAPDH	glyceraldehyde-3-phosphate dehydrogenase	other function	coA	direct	NTD	Koshy B et al. Hum Mol Genet 5:1311-1318, 1996 Harada N et al. J Biol Chem 282:22651-22661, 2007	G3PD; GAPD; MGC88685; GAPDH
GATA2	GATA-2	GATA binding protein 2	transcription factor	coA	direct	-	Perez-Stable CM et al. Mol Cell Endocrinol 167:43-53, 2000 Wang Q et al. Mol Cell 27:380-392, 2007	NFE1B; MGC2306; FLJ45948; GATA2
GATA3	GATA-3	GATA binding protein 3	transcription factor	coA	-	-	Perez-Stable CM et al. Mol Cell Endocrinol 167:43-53, 2000	HDR; MGC2346; MGC5199; MGC5445; GATA3
GNB2L1	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	Rigas AC et al. J Biol Chem 278:46087-46093, 2003 Kraus S et al. Cancer Res 66:11047-11054, 2006	H12.3; HLC-7; PIG21; RACK1; Gnb2-rs1; GNB2L1

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

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

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

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

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

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

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

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
NCOA1	SRC-1	nuclear receptor coactivator 1; steroid receptor coactivator-1	histone acetyltransferase/ deacetylase	coA	direct	NTD, LBD	Onate SA et al. Science 270:1354-1357, 1995 Huang ZQ et al. EMBO J 22:2146-2155, 2003 Ding XF et al. Mol Endocrinol 12:302-313, 1998 Ma H et al. Mol Cell Biol 19:6164-6173, 1999 Bevan CL et al. Mol Cell Biol 19:8383-8392, 1999 Alen P et al. Mol Cell Biol 19:6085-6097, 1999	SRC1; KAT13A; RIP160; F-SRC-1; bHLHe42; bHLHe74; MGC129719; MGC129720; NCOA1
NCOA2	SRC-2	nuclear receptor coactivator 2; glucocorticoid receptor-interacting protein-1	histone acetyltransferase/ deacetylase	coA	direct	NTD, LBD	Hong H et al. Proc Natl Acad Sci U S A 93:4948-4952, 1996 Ding XF et al. Mol Endocrinol 12:302-313, 1998 Berrevoets CA et al. Mol Endocrinol 12:1172-1183, 1998 Ma H et al. Mol Cell Biol 19:6164-6173, 1999 Alen P et al. Mol Cell Biol 19:6085-6097, 1999 Song LN et al. Mol Cell Biol 23:1674-1687, 2003	SRC2; TIF2; GRIP1; KAT13C; NCoA-2; bHLHe75; MGC138808; NCOA2
NCOA3	SRC-3	nuclear receptor coactivator 3; steroid receptor coactivator protein 3; amplified in breast cancer-1	histone histone methyltransferase / demethylase	coA	direct	NTD, hLBD	Tan JA et al. Endocrinology 141:3440-3450, 2000 Wang Q et al. Mol Cell 19:631-642, 2005	ACTR; AIB1; RAC3; SRC3; pCIP; AIB-1; CTG26; SRC-3; CAGH16; KAT13B; TNRC14; TNRC16; TRAM-1; bHLHe42; MGC141848; NCOA3
NCOA4	ARA70	nuclear receptor coactivator 4; androgen receptor coactivator, 70-kD	nuclear receptor coregulator	coA	direct	NTD, LBD	Yeh S and Chang C, Proc Natl Acad Sci USA 93: 5517-5521, 1996 Miyamoto H et al. Proc Natl Acad Sci USA 95;7379-7384, 1998 Heinlein CA et al. J Biol Chem 274;16147-16152, 1999 Alen P et al. Mol Endocrinol 13;117-128, 1999 Peng Y et al. Am J Pathol 172:225-235, 2008	RFG; ELE1; PTC3; ARA70; DKFZp762E1112 ; NCOA4
NCOA6	Asc-2	nuclear receptor coactivator 6, activating signal cointegrator-2	nuclear receptor coregulator	coA	indirect	-	Goo YH et al. J Biol Chem 279:7131-7135, 2004	NRC; AIB3; ANTP; ASC2; PRIP; TRBP; HOXA7; HOX1.1; RAP250; KIAA0181; NCOA6
NCOR1	NCoR	nuclear receptor co-repressor 1	nuclear receptor coregulator	coR	direct	NTD, LBD	Cheng S et al. Mol Endocrinol 16:1492-1501, 2002 Hodgson MC et al. J Biol Chem 280:6511-6519, 2005 Zhu P et al. Cell 124:615-629, 2006	N-CoR; TRAC1; hN-CoR; KIAA1047; MGC104216; hCIT529I10; NCOR1

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

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

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
PHB	prohibitin	prohibitin	other function	coR	indirect	-	Gamble SC et al. Oncogene 26:1757-1768, 2007 Dai Y et al. Carcinogenesis 29:1725-1733, 2008	PHB1; PHB
PIAS1	PIAS1	protein inhibitor of activated STAT, 1	sumoylation	coA/coR	direct	DBD	Tan J et al. Mol Endocrinol 14:14-26, 2000 Kotaja N et al. Mol Endocrinol 14:1986-2000, 2000 Gross M et al. Oncogene 20:3880-3887, 2001 Nishida T and Yasuda H, J Biol Chem 277:41311-41317, 2002 Kotaja N et al. Mol Cell Biol 22:5222-5234, 2002	GBP; ZMIZ3; DDXBP1; GU/RH-II; MGC141878; MGC141879; PIAS1
PIAS2	PIASxa/ARIP3	protein inhibitor of activated STAT X-alpha; AR-interacting protein 3; protein inhibitor of activated STAT, 2	sumoylation	coA/coR	direct	DBD	Kotaja N et al. Mol Endocrinol 14:1986-2000, 2000 Nishida T and Yasuda H, J Biol Chem 277:41311-41317, 2002 Kotaja N et al. Mol Cell Biol 22:5222-5234, 2002	miz; MIZ1; SIZ2; PIASX; ZMIZ4; MGC102682; PIASX-BETA; PIASX-ALPHA; PIAS2
PIAS2	PIASxb	protein inhibitor of activated STAT X-beta	sumoylation	coA/coR	direct	-	Kotaja N et al. Mol Endocrinol 14:1986-2000, 2000 Kotaja N et al. Mol Cell Biol 22:5222-5234, 2002	miz; MIZ1; SIZ2; PIASX; ZMIZ4; MGC102682; PIASX-BETA; PIASX-ALPHA; PIAS2
PIAS3	PIAS3	protein inhibitor of activated STAT, 3	sumoylation	coA/coR	direct	NTD	Junicho A et al. Biochem Biophys Res Commun 278:9-13, 2000 Kotaja N et al. Mol Endocrinol 14:1986-2000, 2000 Gross M et al. Oncogene 20:3880-3887, 2001 Kotaja N et al. Mol Cell Biol 22:5222-5234, 2002	ZMIZ5; FLJ14651; PIAS3
PIAS4	PIASy	protein inhibitor of activated STAT, 4	sumoylation	coR	direct	DBD	Gross M et al. Oncogene 23:3059-3066, 2004	PIASY; Piasg; ZMIZ6; FLJ12419; MGC35296; PIAS4
PIK3CB	PI3K p110β	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta isoform; PI3-kinase p110 subunit beta	kinase/ phosphatase	coA	-	-	Zhu Q et al. Oncogene 27:4569-4579, 2008	PI3K; PIK3C1; P110BETA; PI3KBETA; MGC133043; DKFZp779K1237; PIK3CB
PIK3R1	PI3K p85α	phosphatidylinositol 3-kinase regulatory subunit alpha; PI3-kinase subunit p85-alpha	kinase/ phosphatase	coA	-	-	Zhu Q et al. Oncogene 27:4569-4579, 2008	p85; GRB1; p85-ALPHA; PIK3R1

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

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
PPP1CA	PP1α	serine/threonine-protein phosphatase PP1-alpha catalytic subunit; protein phosphatase 1, catalytic subunit, alpha isoform	kinase/ phosphatase	coA	direct	-	Chen S et al. J Biol Chem 284:25576-25584, 2009	PP-1A; PPP1A; MGC1674; MGC15877; PP1alpha; PPP1CA
PPP2R1A	PP2A	serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform; PP2A subunit A isoform PR65-alpha	kinase/ phosphatase	coR	direct	LBD	Yang CS et al. Mol Cell Biol 25:1298-1308, 2005 Yang CS et al. Mol Cell Biol 27:3390-3404, 2007	PR65A; MGC786; PP2AAALPHA; PP2A-Aalpha; PPP2R1
PQBP1	PQBP-1	polyglutamine binding protein 1; polyglutamine(Q) tract binding protein-1	other function	-	direct	NTD	Iwamoto K et al. Gene 259:69-73, 2000	SHS; MRX55; MRXS3; MRXS8; NPW38; RENS1; PQBP1
PRDX1	PRDX1	peroxiredoxin 1	other function	coA	direct	-	Park SY et al. Cancer Res 67:9294-9303, 2007 Chhipa RR et al. Mol Cancer Res 7:1543-1552, 2009	PAG; PAGA; PAGB; PRX1; PRXI; MSP23; NKEFA; TDPX2; PRDX1
PRIC285	PDIP1alpha	PPAR-alpha interacting complex protein 285	nuclear receptor coregulator	coA	-	-	Tomaru T et al. Endocrinology 147:377-388, 2006	PRIC285; PDIP-1; FLJ00244; KIAA1769; MGC132634; MGC138228
PRKD1	protein kinase D1	serine/threonine-protein kinase D1; nPKC-D1	kinase/ phosphatase	coR	direct	-	Mak P et al. Biochem Biophys Res Commun 373:618-623, 2008 Hassan S et al. Oncogene 28:4386-4396, 2009	PKD; PKCM; PRKCM; PKC-MU; PRKD1; PKD1
PRKDC	DNA-PKc	protein kinase, DNA-activated, catalytic polypeptide	DNA repair	coA	indirect	-	Mayeur GL et al. J Biol Chem 280:10827-10833, 2005	HYRC; p350; DNAPK; DNPK1; HYRC1; XRCC7; DNA-PKcs; PRKDC
PRMT1	PRMT1	Protein arginine methyltransferase 1; HMT1 hnRNP methyltransferase-like 2; protein arginine N-methyltransferase 1	histone histone methyltransferase / demethylase	coA	indirect	-	Wang H et al. Science 293:853-857, 2001 Lee DY et al. Mol Endocrinol 21:1381-1393, 2007	ANM1; HCP1; IR1B4; HRMT1L2; PRMT1
PRMT2	PRMT2	protein arginine N-methyltransferase 2	other function	coA	direct	AR (325-919)	Meyer R et al. J Steroid Biochem Mol Biol 107:1-14, 2007	HRMT1L1; MGC111373; PRMT2

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

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
RAD9A	Rad9	RAD9 homolog	DNA repair	coR	direct	DBD-LBD, LBD	Wang L et al. Mol Cell Biol 24:2202-2213, 2004	RAD9; RAD9A
RAN	ARA24/Ran	ras-related nuclear protein; AR associated protein 24	signal integrator/ transducer, scaffold or adaptor	coA	direct	NTD	Hsiao PW et al. J Biol Chem 274:20229-20234, 1999 Harada N et al. Biochem Biophys Res Commun 373:373-377, 2008	TC4; Gsp1; ARA24; RAN
RANBP10	RanBP10	ran-binding protein 10	other function	coA	direct	-	Harada N et al. Biochem Biophys Res Commun 368:121-125, 2008	FLJ31165; KIAA1464; RANBP10
RANBP9	RanBPM	RAN binding protein 9	signal integrator/ transducer, scaffold or adaptor	coA	direct	NTD, DBD	Rao MA et al. J Biol Chem 277:48020-48027, 2002	RANBPM; RANBP9
RB1	Rb	retinoblastoma 1; retinoblastoma	cell cycle regulator	coA	direct	NTD-DBD	Yeh S et al. Biochem Biophys Res Commun 248:361-367, 1998 Lu J and Danielsen M, J Biol Chem 273:31528-31533, 1998	FKBP
RBAK	RbaK	RB-associated KRAB repressor	cell cycle regulator	coA	direct	NTD-DBD, LBD	Hofman K et al. J Mol Endocrinol 31:583-596, 2003	ZNF769; RBAK
RBM14	PSP2	RNA-binding protein 14; paraspeckle protein 2	splicing & RNA metabolism	-	direct	NTD-DBDh	Ishitani K et al. Biochem Biophys Res Commun 306:660-665, 2003	SIP; COAA; PSP2; SYTIP1; TMEM137; MGC15912; MGC31756; DKFZp779J0927; RBM14
RCHY1	ARNIP/PIRH2	ring finger and CHY zinc finger domain containing 1; AR N-terminal interacting protein	ubiquitin-proteasome system	coA	direct	NTD	Beitel LK et al. J Mol Endocrinol 29:41-60, 2002 Logan IR et al. Mol Cell Biol 26:6502-6510, 2006	ARNIP; CHIMP; PIRH2; RNF199; ZNF363; hARNIP; PRO1996; DKFZp586C1620; RCHY1
REL	c-Rel	C-Rel proto-oncogene protein; v-rel reticuloendotheliosis viral oncogene homolog	transcription factor	coR	direct	-	Mukhopadhyay NK et al. Exp Cell Res 312:3782-3795, 2006	C-Rel; REL
RELA	RelA / NFKB3	v-rel reticuloendotheliosis viral oncogene homolog A	transcription factor	coR	direct	NTD-DBD	Palvimo JJ et al. J Biol Chem 271:24151-24156, 1996 McKay LI and Cidlowski JA Mol Endocrinol 12:45-56, 1998 Zhang L et al. Am J Pathol 175:489-499, 2009	p65; NFKB3; MGC131774; RELA
RNASEL	RNase L	ribonuclease L	signal integrator/ transducer, scaffold or adaptor	coR	direct	LBD	Bettoun DJ et al. J Biol Chem 280:38898-38901, 2005	RNS4; PRCA1; MGC104972; MGC133329; DKFZp781D08126; RNASEL

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

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

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

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

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SRY	SRY	sex determining region Y; testis-determining factor	transcription factor	coR	direct	DBD	Yuan X et al. J Biol Chem 276:46647-46654, 2001	TDF; TDY; SRY
STAT3	STAT3	signal transducer and activator of transcription 3	signal integrator/ transducer, scaffold or adaptor	coA	direct	NTD	Chen T et al. Cancer Res 60:2132-2135, 2000 Matsuda T et al. Biochem Biophys Res Commun 283:179-187, 2001 De Miguel F et al. Nucl Recept 1:3, 2003 Yamamoto T et al. Biochem Biophys Res Commun 306:610-615, 2003	APRF; HIES; FLJ20882; MGC16063; STAT3
STAT5A	STAT5a	signal transducer and activator of transcription 5A	signal integrator/ transducer, scaffold or adaptor	coA	direct	-	Carsol JL et al. Mol Endocrinol 16:1696-1710, 2002 Tan SH et al. Cancer Res 68:236-248, 2008	MGF; STAT5; STAT5A
STAT5B	STAT5b	signal transducer and activator of transcription 5B; transcription factor STAT5B	signal integrator/ transducer, scaffold or adaptor	coA	direct	-	Tan SH et al. Cancer Res 68:236-248, 2008	STAT5; STAT5B
STUB1	CHIP	STIP1 homology and U-box containing protein 1; C terminus of HSC70-Interacting Protein	ubiquitin-proteasome system	coR	direct	NTD, DBD, LBD	Rees I et al. Biochim Biophys Acta 1764:1073-1079, 2006 He B et al. J Biol Chem 279:30643-30653, 2004 Cardozo CP et al. Arch Biochem Biophys 410:134-140, 2003	CHIP; UBOX1; HSPABP2; NY-CO-7; SDCCAG7; STUB1
SUMO1	SUMO-1	SMT3 suppressor of mif two 3 homolog 1; ubiquitin-like 1 (sentrin)	sumoylation	coR	-	-	Poukka H et al. Proc Natl Acad Sci USA 97:14145-14150, 2000 Zheng Z et al. J Biol Chem 281:4002-4012, 2006	GMP1; PIC1; SMT3; UBL1; DAP-1; OFC10; SENP2; SMT3C; SMT3H3; SUMO-1; SUMO1
SUMO2	SUMO-2	SMT3 suppressor of mif two 3 homolog 2; sentrin 2; small ubiquitin-like modifier 2, isoform a	sumoylation	coA	-	-	Zheng Z et al. J Biol Chem 281:4002-4012, 2006	HSMT3; SMT3B; SMT3H2; MGC117191; SUMO2
SUMO3	SUMO-3	small ubiquitin-like modifier protein 3; SMT3 suppressor of mif two 3 homolog 1	sumoylation	coA/coR	-	-	Zheng Z et al. J Biol Chem 281:4002-4012, 2006	SMT3A; SMT3H1; SUMO-3; SUMO3
SVIL	Supervillin	supervillin; archvillin	cytoskeletal protein	coA	direct	NTD, C-term	Ting HJ et al. Proc Natl Acad Sci U S A 99:661-666, 2002 Jasavala R et al. Mol Cell Proteomics 6:252-271, 2007	DKFZp686A17191; SVIL

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
TAGLN	Transgelin	transgelin	cytoskeletal protein	coR	indirect	-	Yang Z et al. Mol Endocrinol 21:343-358, 2007	SM22; SMCC; TAGLN1; WS3-10; DKFZp686B01212; DKFZp686P11128; TAGLN
TCF21	Pod-1	transcription factor 21; pod-1	transcription factor	coR	direct	DBDh	Hong CY et al. Mol Endocrinol 19:2245-2257, 2005	POD1; bHLHa23; TCF21
TCF7L2	Tcf4	transcription factor 7-like 2; T-cell factor 4	signal integrator/ transducer, scaffold or adaptor	coR	direct	DBD	Amir AL et al. J Biol Chem 278:30828-30834, 2003 Singh R et al. Endocrinology 150:1259-1268, 2009	TCF4; TCF-4; TCF7L2
TDG	thymine-DNA glycosylase	G/T mismatch-specific thymine DNA glycosylase;	DNA repair	-	direct	-	Chen D et al. J Biol Chem 278:38586-38592, 2003	TDG
TGFB1I1	ARA55	transforming growth factor beta 1 induced transcript 1; androgen receptor coactivator ARA55	signal integrator/ transducer, scaffold or adaptor	coA	direct	LBD	Fujimoto N et al. J Biol Chem 274:8316-8321, 1999 Heitzer MD and DeFranco DB Cancer Res 66:7326-7333, 2006	HIC5; ARA55; HIC-5; TSC-5; TGFB1I1
TGIF1	TGIF	TG-interacting factor; 5'TG3' interacting factor	nuclear receptor coregulator	coR	direct	DBD	Sharma M and Sun Z, Mol Endocrinol 15:1918-1928, 2001	HPE4; TGIF; MGC5066; MGC39747; TGIF1
TMF1	ARA160	TATA element modulatory factor 1; AR-associated protein 160	nuclear receptor coregulator	coA	direct	NTD, DBD-LBD	Hsiao PW and Chang C, J Biol Chem 274:22373-22379, 1999	TMF; ARA160; TMF1
TNK2	Ack1	tyrosine kinase, non-receptor, 2	signal integrator/ transducer, scaffold or adaptor	coA	direct	NTD	Mahajan NP et al. Proc Natl Acad Sci USA 104:8438-8443, 2007	ACK; ACK1; FLJ44758; FLJ45547; p21cdc42Hs; TNK2
TOB1	Tob1	transducer of ERBB2, 1; transducer of erbB-2	other function	coR	direct	-	Kawate H et al. Mol Cell Endocrinol 230:77-86, 2005	TOB; TROB; APRO6; PIG49; TROB1; MGC34446; MGC104792; TOB1
TOB2	Tob2	transducer of ERBB2, 2	other function	coR	-	-	Kawate H et al. Mol Cell Endocrinol 230:77-86, 2005	TOB4; TOBL; TROB2; TOB2
TP53	p53		transcription factor	coR	indirect	-	Shenk JL et al. J Biol Chem 276:38472-38479, 2001 Cronauer MV et al. Oncogene 23:3541-3549, 2004	

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

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

Gene	Protein	Preferred Name	Function	Coregulator	Interactn	Domain	References	Also known as
YWHAH	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	-	Zilliacus J et al. Mol Endocrinol 15:501-511, 2001 Titus MA et al. Clin Cancer Res 15:7571-7581, 2009	YWHA1; YWHAH
YY1	Yin Yang 1	transcriptional repressor protein YY1; Yin and Yang 1 protein	transcription factor	coA/coR	direct	DBD-LBD	Deng Z et al. Oncogene 28:3746-3757, 2009	DELTA; NF-E1; UCRBP; INO80S; YIN-YANG-1; YY1
ZMIZ1	hZimp10	retinoic acid induced 17; PIAS-like protein hZimp10; zinc finger-containing, Miz1, PIAS-like protein on chromosome 10	sumoylation	coA	direct	NTD	Sharma M et al. Embo J 22:6101-6114, 2003 Beliakoff J and Sun Z, Nucl Recept Signal 4:e017, 2006	MIZ; RAI17; Zimp10; hZIMP10; FLJ13541; KIAA1224; ZMIZ1
ZMIZ2	hZimp7	zinc finger, MIZ-type containing 2	sumoylation	coA	direct	NTD, LBD	Huang CY et al. Mol Endocrinol 19:2915-2929, 2005 Beliakoff J and Sun Z, Nucl Recept Signal 4:e017, 2006	NET27; ZIMP7; hZIMP7; KIAA1886; DKFZp761I2123; ZMIZ2
ZNF318	TZF	zinc finger protein 318; testicular zinc finger	nuclear receptor coregulator	coR	direct	NTD	Ishizuka M et al. Biochem Biophys Res Commun 331:1025-1031, 2005 Tao RH et al. Mol Cell Endocrinol 247:150-165, 2006 Tao RH et al. Biochem Biophys Res Commun 341:515-521, 2006	TZF; ZFP318; FLJ21852; HRIHFB2436; ZNF318
ZNF451	ZNF451	zinc finger protein 451; coactivator for steroid receptors	sumoylation	coA	direct/indirect	-	Karvonen U et al. J Mol Biol 382:585-600, 2008	COASTER; FLJ23421; FLJ53246; FLJ90693; KIAA0576; KIAA1702; MGC26701; dJ417I1.1; ZNF451
	E1A (Ad5)	control protein E1A; E1A nucleoprotein (Human adenovirus 5)		coR	indirect	-	Hoti N et al. Mol Ther 15:1495-1503, 2007	