

	SRC3						ER α		Gene Symbol	Gene ID	SRC3						ER α								
	E2			C			V				E2		V		E2		V		E2		V				
	1	2	3	4	1	2	3	4			1	2	F	H	F	H	F	H	F	H	F	H			
TFs	Antigen								SRC3 / NCOA3*	8202	325	165	286	201	74	332	215	52	73	142	36	23	6	4	
									ER α / ESR1	2099											56	39	110	72	
									ELF1*	1997											3	1			
									TRPS1	7227			2	2									2		
									RELA	5970		3	1												
									RFX1	5989		1													
									RXRB	6257		1													
									RXRA	6256		2													
									NR2F2	7026		2												1	
									MAX	4149	4														
									ZIM2	23619					1										
									MTA2*	9219		9							4	3	1	2			
									GATAD2A*	54815	1	7							3	2					
									GATAD2B	57459		3													
									HDAC2	3066		2							1						
								HDAC1	3065		9	1	1					2	2	3	3				
								RBBP4	5928		2														
								CHD4	1108									3	2			1			
								EHMT1	79813									1							
								IRF2BP1	26145		2	1													
								PAF1	54623	2		4													
								WDR61	80349			1													
								PPP2CA	5515		2														
								PPP1CA	5499		5					1		1							
								PPP1CC	5501			5					1						2		
								PPP1CB	5500			1													
								TCEB2	6923		1							2	2	5	3				
								TCEB1	6921			3											2		
								DDX5	1655	12	31	44	7	4	5	6	1	1		#	#	#	#		
								DDX17	10521	2	10	15			3					#	#	#	#		
								DDX52	11056	7		3							#	#	#	#			
								KIAA0460	23248	1	5	5		6	1			2							
								COIL	8161		10	3			1			1	1			3			
								TRIP12	9320			4	9			7	1					7			
								MYST2	11143			5		2									1		
								KIAA1967	57805	5	4	15	4							1		2	3		
								PCMTD1	115294		2	3							3	1	5	4			
								PDXDC1*	23042		9							3	1						
								ARFGAP2	84364		9							2				1			
								GTF3C4	9329		7												1		
								SMARCA1	6594		3									3			2		
								MAP2K2	5605		2							2				3			
								SMARCB1	6598		2							1							
								PCMTD2	55251			4							4				3	2	
								ATAD2	29028			4											2		
								UBR5	51366			1							2				6	3	
								SMARCE1	6605			1												4	
								RACGAP1	29127	2	12	9		7	7										
								TAX1BP1	8887	5	7	2				1									
								CSTF2	1478	2					5										
								RAD18	56852		3				4										
								TP53BP2	7159		1				6										
								C17orf28	283987			17		4			1								
								GTF2H4	2968				1												
								TAF4	6874				1				1								
								C14orf4	64207	4	8	14	2					1							
								AGGF1	55109	3	2	1	2												
								C9orf140	89958	2		1													
								C20orf77	58490		2	2													
								SCYL2	55681		2	2													
								SEH1L	81929		2	2													
								NFKB1	4790				2	1											
								PHF15	23338				2	1											
								CDC42EP4	23580	2															
								DIABLO	56616	3															
								TP53BP1	7158	1															
								MED20	9477		2														
								MED30	90390		3														
								GTF3C3	9330		8														
								CNOT3	4849		3														
								GTF2IRD1	9569		5														
								NFATC2IP	84901		2														
								BRD2	6046		1														
								ARL1	400		3														
								ARHGEF1	9138		1														
								CNOT10	25904		3														
								ARF6	382		4														
								TIA1	7072			1													
								MED12	9968			1													
								TRRAP	8295			2													
								INOC1	54617				2												
								NFRKB	4798				1												
								GYG1	2992				2												
								ARID1B	57492					1											
								TRIP13	9319						9										
								C11orf30	56946						6										
								SLTM	79811						4										
								CREBBP	1387						2										
								CHD8	57680							1									
								ARID4B	51742								1								
								PSMB6	5694									3							

Supplementary Material 8: Treatment-dependent SRC-3 and ER interactomes from nuclear extract of E2-, vehicle- (V) treated and untreated (C) MFC-7 breast cancer cells as identified by IP/MS. SRC-3 does not form a multisubunit steady-state core complex, but there are preferred interacting partners that associate with SRC-3 depending on cell signaling states. Proteins that show apparent differences in abundance between treatments are listed. Spectral counts of associated proteins corresponding to the heatmap representation are shown to the right for several experiments. #: Both antibodies used for ER IPs (F:F-10, H: HC-20, SantaCruz BioTechnology) cross-react to DDX5, DDX17 and DDX52, thus, the changes in associations with ER could not be evaluated. *: Proteins consistently found at higher levels in E2 treated cells for both SRC3 and ER IPs.

Combined Analysis

GID	Symbol	SRC-3 E2				SRC-3 CYC				SRC-3 V		ER E2		ER V		NURSA CoRID
		1	2	3	4	1	2	3	4	1	2	F	H	F	H	
1	8202 NCOA3	325	165	286	201	74	332	215	52	73	142	36	23	6	4	C91
2	22880 MORC2	35	22	40	18	8	8	9			19					
7	23248 KIAA0460	1	5	5			6	1				2				
8	8161 COIL		10	3				1				1	1		3	
9	115294 PCMTD1		2	3								3	1	5	4	
10	6737 TRIM21		7									#	#	#	#	
11	64207 C14orf4	4	8	14	2		4	2	2	1						
12	353116 RILPL1	7		2	4		12	3								
14	8467 SMARCA5		4									5	2	3	6	
15	2099 ESR1		3									56	39	110	72	
16	9320 TRIP12			4	9			7	1					7		C156
17	51592 TRIM33			1								1	4	3	4	
18	55109 AGGF1	3	2	1	2											
20	54815 GATAD2A	1	7									3	2			
21	8887 TAX1BP1	5		7	2				1							
23	23186 RCOR1		4	1								1	2			C194
24	11056 DDX52		7		3							#	#	#	#	
25	9219 MTA2		9									4	3	1	2	C197
26	63897 HEATR6		6									1		6	3	
28	55251 PCMTD2			4								4		3	2	
29	51366 UBR5			1								2		6	3	C11
31	23613 ZMYND8				1							2		2	1	
34	357 SHROOM2	2		3			5									
38	10849 CD3EAP		3	1				1								
39	91748 C14orf43		2		1										1	
40	5832 ALDH18A1		5			12	3									
41	5499 PPP1CA		5						1							
42	23042 PDXDC1		9									1				
43	1997 ELF1		4									3	1			
45	84364 ARFGAP2		9									3	1			
46	5605 MAP2K2		2									2		1		
47	55929 DMAP1		3									2		3		
48	6594 SMARCA1		3										3		2	
49	9328 GTF3C5		7											3	2	
52	7227 TRPS1			2	2									2		
54	11143 MYST2			5		2									1	C87
55	5501 PPP1CC			5				1						2		
56	6921 TCEB1			3					3						2	
58	10363 HMG20A			2										1	1	
60	25885 POLR1A				3					2						
61	55601 DDX60				1							3		3		
62	57592 ZNF687				2								1	5		
63	6878 TAF6							1					1	1		
64	196528 ARID2											2	2	2		
65	11177 BAZ1A											1	2	1		C332
66	6667 SP1											2	1		1	
68	6923 TCEB2								1			2	2	5	3	
69	57473 ZNF512B		1									2	2	4	2	
70	4221 MEN1											2		1	1	C351
71	8239 USP9X												5	3	11	
76	54623 PAF1	2		4												
77	89958 C9orf140	2		1												
78	23360 FBNP4	2		5	3											
79	1478 CSTF2	2					5		1							
84	5970 RELA		3	1												C220
85	58490 C20orf77		2	2												
86	55681 SCYL2		2	2												
87	81929 SEH1L		2	2												
88	26145 IRF2BP1		2	1												
89	56852 RAD18		3					4								
90	7159 TP53BP2		1					6								
93	3066 HDAC2		2									1				C67
100	9329 GTF3C4		7												1	
101	7026 NR2F2		2												1	
103	4790 NFKB1			2	1											
104	23338 PHF15			2	1											
105	283987 C17orf28			17		4										
106	7343 UBTf			1								1				
110	2976 GTF3C2			8											5	
111	29028 ATAD2			4											2	
116	7030 TFE3				3											
117	6874 TAF4				1		2		1							
118	2968 GTF2H4				1				1							
120	1523 CUX1						2						1			
121	26115 TANC2						2								1	
122	55226 NAT10				1				5					1	7	
123	25939 SAMHD1		2	2								2	1	4		
125	11235 PDCD10											4		4		
127	23307 FKBP15											2		1		
128	1729 DIAPH1											2		1		
131	4599 MX1											2			2	
132	3933 LCN1												7	3		
133	9739 SETD1A												1	1		
134	9842 PLEKHM1												1	1		
136	285527 FRYL												3		3	
137	135112 NCOA7												2		4	C96
138	5524 PPP2R4												1		5	
139	9687 GREB1													39	26	
141	11272 PRR4													4	2	
143	10607 TBL3													4	1	
144	64897 C12orf43													3	2	

283	85456	TNKS1BP1				3		
284	84140	FLJ13305				3		
285	282996	RBM20				3		
286	23019	CNOT1				2		C348
287	3665	IRF7				2		
288	55224	ETNK2				1		
289	3101	HK3				1		
290	11215	AKAP11				1		
291	5545	PRB4				1		
292	55308	DDX19A				1		
293	3482	IGF2R				1		
294	3757	KCNH2				1		
295	23093	TLL5				1		C213
297	392	ARHGAP1					4	
298	7707	ZNF148					3	
299	7916	BAT2					3	
300	79039	DDX54					3	C49
301	22984	PDCD11					2	
302	51490	C9orf114					2	
303	51339	DACT1					2	
305	29117	BRD7					1	
308	9898	UBAP2L					1	
309	55131	RBM28					1	
310	3295	HSD17B4					1	
311	5868	RAB5A					1	
312	25831	HECTD1					1	
313	23331	TTC28					1	
314	3839	KPNA3					1	
315	80222	TARS2					1	
316	2990	GUSB					1	
317	85441	PRIC285					1	C17
318	65264	UBE2Z					1	
319	1595	CYP51A1					1	
320	120935	CCDC38					1	
321	1288	COL4A6					1	
322	23101	MCF2L2					1	
323	10053	AP1M2					1	
324	2975	GTF3C1					2	3
325	5152	PDE9A						3
326	9759	HDAC4					2	C276
327	7706	TRIM25					2	C338
328	22998	LIMCH1					2	
329	284009	LOC284009					2	
330	5931	RBBP7					1	
331	116092	DNTTIP1					1	
332	22882	ZHX2					1	
334	3800	KIF5C					1	
335	55907	CMAS					1	
336	563	AZGP1					1	
337	5580	PRKCD					1	C321
338	7957	EPM2A					1	
339	54665	RSBN1					1	
340	94025	MUC16					1	
341	761	CA3					1	
342	257	ALX3					1	