

Supplementary Table 2: Genes activated by AR in LNCaP cells in a manner dependent on the presence C/EBP α .

AffyID	Entrez Gene	Symbol	Fold-change	P-value	Adjusted fold-change
207773_x_at	64816	CYP3A43	2.392	2.04E-05	3.496
237515_at	148534	TMEM56	2.294	7.95E-05	3.404
204259_at	4316	MMP7	2.412	0.000749	3.382
204595_s_at	6781	STC1	2.260	3.02E-05	3.066
231669_at	6414	SEPP1	2.098	0.001977	2.997
221581_s_at	7462	LAT2	2.179	0.00889	2.990
201060_x_at	2040	STOM	2.737	0.00016	2.989
226075_at	80176	SPSB1	2.055	0.003034	2.802
204941_s_at	222	ALDH3B2	2.079	0.002062	2.768
234980_at	148534	TMEM56	1.994	1.41E-05	2.761
224435_at	84293	C10orf58	2.337	0.000143	2.506
235004_at	221662	RBM24	2.011	7.08E-05	2.477
204596_s_at	6781	STC1	1.838	8.73E-05	2.459
209541_at	3479	IGF1	2.004	2.33E-05	2.439
222360_at	51611	DPH5	1.761	0.001362	2.432
201299_s_at	55233	MOBKL1B	1.791	0.00349	2.419
205121_at	6443	SGCB	1.747	0.004392	2.388
205966_at	6884	TAF13	1.631	0.004991	2.246
224996_at	NA	NA	1.613	0.000364	2.223
1559776_at	2760	GM2A	1.699	0.000369	2.192
242338_at	169200	TMEM64	1.672	4.99E-05	2.192
214244_s_at	8992	ATP6V0E1	1.673	0.005579	2.176
208510_s_at	5468	PPARG	1.777	0.000179	2.141
225662_at	51776	ZAK	1.597	0.001723	2.141
201171_at	8992	ATP6V0E1	1.606	0.003793	2.138
225335_at	84838	ZNF496	1.705	0.003466	2.132
227940_at	339803	LOC339803	1.755	0.001728	2.106
207530_s_at	1030	CDKN2B	1.741	0.004926	2.105
207717_s_at	5318	PKP2	1.597	0.003841	2.098
211220_s_at	3298	HSF2	1.629	0.000718	2.097
242157_at	80205	CHD9	1.707	0.001913	2.094
219296_at	54503	ZDHHC13	1.540	0.001438	2.079
202879_s_at	9267	CYTH1	1.753	0.002135	2.074
242034_at	64839	FBXL17	1.542	0.001098	2.069
205010_at	54552	GNL3L	1.611	0.000203	2.062
204818_at	3294	HSD17B2	1.957	0.000772	2.060
221591_s_at	54478	FAM64A	1.523	0.00247	2.047
243405_at	NA	NA	1.537	0.001579	2.040
207611_at	8340	HIST1H2BL	1.551	0.001225	2.039
225665_at	51776	ZAK	1.542	0.000302	2.036
226283_at	282809	WDR51B	1.536	0.004026	2.019
205016_at	7039	TGFA	1.617	0.003131	2.017
200729_s_at	10097	ACTR2	1.528	0.002292	2.016
224394_at	9616	RNF7	1.814	0.001528	2.013
223292_s_at	64960	MRPS15	1.533	0.000649	2.007

34408_at	6253	RTN2	1.530	0.007459	1.999
201404_x_at	5690	PSMB2	1.506	0.002227	1.999
211018_at	4047	LSS	1.719	0.000913	1.997
205217_at	1678	TIMM8A	1.497	0.000303	1.963
241989_at	2868	GRK4	1.482	0.00168	1.960
211441_x_at	64816	CYP3A43	1.610	0.002653	1.956
205479_s_at	5328	PLAU	1.685	0.0075	1.953
239126_at	148046	C19orf23	1.705	0.009429	1.938
235404_at	84159	ARID5B	1.492	0.000473	1.934
211363_s_at	4507	MTAP	1.667	0.002611	1.929
214590_s_at	7321	UBE2D1	1.622	0.001228	1.923
201169_s_at	8553	BHLHB2	1.477	0.003792	1.921
216609_at	7295	TXN	1.539	0.009522	1.917
211804_s_at	1017	CDK2	1.502	0.00887	1.916
217762_s_at	11031	RAB31	1.668	0.00222	1.913
1556316_s_at	284889	LOC284889	1.461	0.007485	1.908
210896_s_at	444	ASPH	1.520	0.000857	1.905
235907_at	55161	TMEM33	1.447	0.004131	1.896
205850_s_at	2562	GABRB3	1.521	0.000865	1.894
224753_at	113130	CDCA5	1.482	0.008678	1.893
211089_s_at	4752	NEK3	1.535	0.008743	1.888
208591_s_at	5140	PDE3B	1.556	0.001062	1.884
209135_at	444	ASPH	1.509	0.00089	1.881
210098_s_at	NA	NA	1.542	0.004074	1.881
224441_s_at	85015	USP45	1.541	0.004197	1.877
238448_at	9801	MRPL19	1.640	0.002012	1.872
238562_at	84294	UTP23	1.524	0.009152	1.868
239007_at	90317	ZNF616	1.560	0.000732	1.866
225974_at	169200	TMEM64	1.484	0.000249	1.865
206685_at	54435	HCG4	1.496	0.006566	1.864
1554047_at	10190	TXNDC9	1.428	0.003665	1.862
214681_at	2710	GK	1.459	0.000756	1.862
227609_at	94240	EPSTI1	1.473	0.005483	1.861
217785_s_at	10652	YKT6	1.433	0.003486	1.859
243027_at	150084	IGSF5	1.461	0.003822	1.858
207425_s_at	10801	SEP9	1.434	0.002196	1.854
201212_at	5641	LGMN	1.519	0.000242	1.851
202145_at	4061	LY6E	1.471	0.002489	1.851
227130_s_at	7088	TLE1	1.640	0.001074	1.851
210334_x_at	332	BIRC5	1.488	0.008843	1.850
207099_s_at	1121	CHM	1.626	0.001916	1.848
209167_at	2824	GPM6B	1.440	0.002915	1.838
225114_at	8540	AGPS	1.432	0.001354	1.837
226066_at	4286	MITF	1.506	0.000205	1.837
1553150_at	221656	AOF1	1.515	0.001011	1.834
231719_at	64163	IFRG15	1.457	0.006614	1.832
217612_at	92609	TIMM50	1.550	0.003696	1.828
1552573_s_at	145282	MIPOL1	1.603	0.003618	1.825
205848_at	2620	GAS2	1.457	0.005718	1.823
223735_at	84100	ARL6	1.636	0.00037	1.823

209457_at	1847	DUSP5	1.432	0.009318	1.822
204225_at	9759	HDAC4	1.456	0.008512	1.822
222558_at	55197	RPRD1A	1.631	0.002067	1.820
1555279_at	25852	ARMC8	1.436	0.006498	1.820
203626_s_at	6502	SKP2	1.413	0.002388	1.817

LNCaP cells were transfected by nucleofection with C/EBP α or vector. After 24h, the cells were infected with AR shRNA lentivirus or non-target control lentivirus; the cells were then grown in fresh hormone-free media. The cells were then treated for 48 h with either vehicle or R1881 (1 nM). The cells were harvested 72 h post nucleofection and the mRNA profile was determined using replicate samples by Affymetrix microarray analysis. The AR knockdown accomplished by infection with shRNA lentivirus was 100% (please see Figure 5B in the manuscript). 50% of the cells were transfected by nucleofection with the C/EBP α expression plasmid, as determined by co-transfected GFP. The Table only includes genes that were unresponsive to R1881/AR. The Table shows the fold increase in gene expression which was dependent on the presence of both AR and C/EBP α . Significant increases in expression in AR⁺ C/EBP α ⁺ R1881-treated cells compared to AR⁻ C/EBP α ⁺ vehicle-treated cells were determined using the affyImGUI program. The fold-changes and *P*-values for these increases were determined by the affyImGUI program. An adjusted fold-change was also calculated to compensate for the fact that only 50% of the cells were transfected by the C/EBP α expression plasmid. The list was filtered to remove all probe sets with activation by (AR + R1881)/AR⁻control >1.2, those with average expression levels <64, and those with *P*-values for increase >0.01. The adjusted increases for the 100 genes with the greatest increases are shown in this Table.