

Supplementary Table 1: Effect of ectopic C/EBP α on fold-induction of androgen target genes in LNCaP cells following a 6h treatment with R1881 (A value of 1 indicates no effect).

| Probe Set ID | Entrez Gene | Gene Symbol | Fold change |
|--------------|-------------|-------------|-------------|
| 1554163_at | 117581 | TWIST2 | 0.0769 |
| 1562048_at | 152225 | LOC152225 | 0.1 |
| 222168_at | | | 0.29 |
| 210504_at | 10661 | KLF1 | 0.3 |
| 215957_at | 7321 | UBE2D1 | 0.311 |
| 1569111_at | 9580 | SOX13 | 0.362 |
| 237377_at | | | 0.366 |
| 239449_at | | | 0.406 |
| 1563571_at | 285463 | LOC285463 | 0.425 |
| 1570433_at | 7113 | TMPRSS2 | 0.427 |
| 215595_x_at | | | 0.438 |
| 212448_at | 23327 | NEDD4L | 0.444 |
| 244697_at | | | 0.444 |
| 1553153_at | 245972 | ATP6V0D2 | 0.453 |
| 1563899_at | 197021 | LCTL | 0.4644 |
| 243929_at | | | 0.4655 |
| 230267_at | | | 0.49 |
| 244767_at | 118924 | C10orf4 | 0.499 |
| 1570622_at | | | 0.51 |
| 1562095_at | | | 0.511 |
| 240107_at | | | 0.515 |
| 234440_at | | | 0.516 |
| 232535_at | | | 0.54 |
| 1569761_x_at | | | 0.541 |
| 242021_at | | | 0.542 |
| 242474_s_at | 203547 | LOC203547 | 0.556 |
| 241218_at | | | 0.562 |
| 235592_at | | | 0.582 |
| 233123_at | 30061 | SLC40A1 | 0.584 |
| 244026_at | | | 0.587 |
| 1553574_at | 338376 | IFNE1 | 0.59 |
| 209854_s_at | 3817 | KLK2 | 0.599 |
| 1553313_s_at | 6526 | SLC5A3 | 0.599 |
| 689_at | 8501 | SLC43A1 | 0.599 |
| 233313_at | | | 0.599 |
| 226446_at | 55502 | HES6 | 0.619 |

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|--------------|--------|-----------|-------|
| 235690_at | 84622 | ZNF594 | 0.62 |
| 216783_at | | | 0.62 |
| 244505_at | | | 0.622 |
| 1555737_a_at | 9622 | KLK4 | 0.625 |
| 212976_at | | | 0.63 |
| 241043_at | | | 0.63 |
| 225337_at | 11057 | ABHD2 | 0.631 |
| 240038_at | | | 0.631 |
| 238499_at | 85414 | SLC45A3 | 0.632 |
| 1555697_at | 9622 | KLK4 | 0.635 |
| 1566079_at | 647190 | LOC647190 | 0.637 |
| 205566_at | 11057 | ABHD2 | 0.639 |
| 220064_at | 79809 | TTC21B | 0.646 |
| 240721_at | | | 0.646 |
| 242199_at | | | 0.652 |
| 214740_at | 246721 | POLR2J2 | 0.654 |
| 214740_at | 548644 | POLR2J3 | 0.654 |
| 214740_at | 84820 | POLR2J4 | 0.654 |
| 1554739_at | 3652 | IPP | 0.66 |
| 223690_at | 4053 | LTBP2 | 0.668 |
| 227826_s_at | | | 0.668 |
| 230782_at | 653381 | LOC653381 | 0.676 |
| 210339_s_at | 3817 | KLK2 | 0.677 |
| 220302_at | 4117 | MAK | 0.682 |
| 1555039_a_at | 10257 | ABCC4 | 0.686 |
| 1570183_at | 55030 | FBXO34 | 0.7 |
| 202920_at | 287 | ANK2 | 0.701 |
| 220898_at | | | 0.708 |
| 1557714_at | 1487 | CTBP1 | 0.719 |
| 220096_at | 8635 | RNASET2 | 0.72 |
| 207689_at | 347853 | TBX10 | 0.723 |
| 205815_at | 5068 | REG3A | 0.724 |
| 224062_x_at | 9622 | KLK4 | 0.725 |
| 226726_at | 129642 | MBOAT2 | 0.727 |
| 1569490_at | 64778 | FNDC3B | 0.727 |
| 240015_at | | | 0.735 |
| 210018_x_at | 10892 | MALT1 | 0.74 |
| 202237_at | 4837 | NNMT | 0.743 |
| 210787_s_at | 10645 | CAMKK2 | 0.76 |
| 242427_at | 51322 | WAC | 0.76 |

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|--------------|--------|-----------|-------|
| 241873_at | | | 0.762 |
| 204583_x_at | 354 | KLK3 | 0.767 |
| 1554086_at | 10426 | TUBGCP3 | 0.793 |
| 211689_s_at | 7113 | TMPRSS2 | 0.794 |
| 210517_s_at | 9590 | AKAP12 | 0.798 |
| 1558711_at | 285512 | FAM13A1OS | 0.811 |
| 223092_at | 56172 | ANKH | 0.814 |
| 239557_at | | | 0.814 |
| 242692_at | | | 0.815 |
| 228696_at | 85414 | SLC45A3 | 0.819 |
| 1570631_at | | | 0.819 |
| 1569673_at | | | 0.82 |
| 227762_at | | | 0.82 |
| 208309_s_at | 10892 | MALT1 | 0.822 |
| 228858_at | | | 0.823 |
| 205773_at | 22849 | CPEB3 | 0.825 |
| 204582_s_at | 354 | KLK3 | 0.827 |
| 229554_at | | | 0.827 |
| 205102_at | 7113 | TMPRSS2 | 0.829 |
| 1568889_at | 2177 | FANCD2 | 0.83 |
| 228854_at | | | 0.83 |
| 211596_s_at | 26018 | LRIG1 | 0.84 |
| 207103_at | 3751 | KCND2 | 0.84 |
| 1552897_a_at | 170850 | KCNG3 | 0.846 |
| 1566437_at | 283475 | LOC283475 | 0.85 |
| 1563863_x_at | 170082 | MGC17403 | 0.854 |
| 206425_s_at | 7222 | TRPC3 | 0.86 |
| 201108_s_at | 7057 | THBS1 | 0.87 |
| 230053_at | | | 0.875 |
| 205883_at | 7704 | ZBTB16 | 0.878 |
| 212570_at | 23052 | ENDOD1 | 0.883 |
| 206170_at | 154 | ADRB2 | 0.884 |
| 1555801_s_at | 151126 | ZNF533 | 0.886 |
| 228987_at | | | 0.889 |
| 1557276_at | | | 0.896 |
| 205121_at | 6443 | SGCB | 0.9 |
| 226553_at | 7113 | TMPRSS2 | 0.907 |
| 225330_at | 3480 | IGF1R | 0.912 |
| 201109_s_at | 7057 | THBS1 | 0.912 |
| 1557309_at | 163486 | DENND1B | 0.923 |

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|-------------|--------|------------|--------|
| 243483_at | 79054 | TRPM8 | 0.928 |
| 231644_at | | | 0.931 |
| 212252_at | 10645 | CAMKK2 | 0.935 |
| 227755_at | | | 0.959 |
| 239922_at | 84865 | CCDC142 | 0.96 |
| 204121_at | 10912 | GADD45G | 0.965 |
| 205862_at | 9687 | GREB1 | 0.971 |
| 227725_at | 55808 | ST6GALNAC1 | 0.973 |
| 211497_x_at | 4824 | NKX3-1 | 0.976 |
| 231192_at | 23566 | EDG7 | 0.983 |
| 206545_at | 940 | CD28 | 0.986 |
| 200862_at | 1718 | DHCR24 | 0.99 |
| 239130_at | | | 0.991 |
| 207135_at | 3356 | HTR2A | 0.994 |
| 1568627_at | 57223 | SMEK2 | 1 |
| 240149_at | | | 1.002 |
| 232252_at | 92235 | DUSP27 | 1.011 |
| 239202_at | 5865 | RAB3B | 1.014 |
| 208306_x_at | 3123 | HLA-DRB1 | 1.017 |
| 220786_s_at | 55089 | SLC38A4 | 1.02 |
| 1558692_at | 112770 | C1orf85 | 1.02 |
| 242821_at | 203238 | C9orf93 | 1.022 |
| 227609_at | 94240 | EPSTI1 | 1.029 |
| 1563474_at | 254013 | MGC50559 | 1.044 |
| 242358_at | | | 1.057 |
| 222088_s_at | 144195 | SLC2A14 | 1.06 |
| 222088_s_at | 6515 | SLC2A3 | 1.06 |
| 212573_at | 23052 | ENDOD1 | 1.064 |
| 243762_at | | | 1.093 |
| 215868_x_at | | | 1.107 |
| 205925_s_at | 5865 | RAB3B | 1.116 |
| 226982_at | 22936 | ELL2 | 1.116 |
| 225571_at | 3977 | LIFR | 1.1167 |
| 244368_x_at | | | 1.127 |
| 203627_at | 3480 | IGF1R | 1.128 |
| 209681_at | 10560 | SLC19A2 | 1.133 |
| 228260_at | 1993 | ELAVL2 | 1.136 |
| 204897_at | 5734 | PTGER4 | 1.15 |
| 220018_at | 79872 | CBLL1 | 1.152 |
| 222450_at | 56937 | TMEPAI | 1.172 |

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| 219555_s_at | 55839 | CENPN | 1.187 |
| 219856_at | 79098 | C1orf116 | 1.21 |
| 221245_s_at | 7855 | FZD5 | 1.213 |
| 203788_s_at | 10512 | SEMA3C | 1.216 |
| 228865_at | 79098 | C1orf116 | 1.223 |
| 244650_at | | | 1.224 |
| 224856_at | 2289 | FKBP5 | 1.233 |
| 225575_at | 3977 | LIFR | 1.259 |
| 201110_s_at | 7057 | THBS1 | 1.262 |
| 221841_s_at | 9314 | KLF4 | 1.273 |
| 217875_s_at | 56937 | TMEPAI | 1.276 |
| 230748_at | 9120 | SLC16A6 | 1.29 |
| 219049_at | 55790 | ChGn | 1.295 |
| 222118_at | 55839 | CENPN | 1.295 |
| 209706_at | 4824 | NKX3-1 | 1.296 |
| 220986_s_at | 81789 | TIGD6 | 1.301 |
| 243311_at | 400830 | RP5-1103G7.6 | 1.301 |
| 222449_at | 56937 | TMEPAI | 1.302 |
| 226099_at | 22936 | ELL2 | 1.307 |
| 219312_s_at | 65986 | ZBTB10 | 1.32 |
| 223805_at | 114880 | OSBPL6 | 1.334 |
| 224657_at | 54206 | ERRFI1 | 1.342 |
| 211239_s_at | 8756 | ADAM7 | 1.344 |
| 223168_at | 58480 | RHOU | 1.362 |
| 233899_x_at | 65986 | ZBTB10 | 1.374 |
| 232397_at | | | 1.375 |
| 219476_at | 79098 | C1orf116 | 1.38 |
| 210088_x_at | 4635 | MYL4 | 1.382 |
| 201502_s_at | 4792 | NFKBIA | 1.399 |
| 227180_at | 79993 | ELOVL7 | 1.401 |
| 1561454_at | | | 1.416 |
| 228559_at | 55839 | CENPN | 1.434 |
| 203789_s_at | 10512 | SEMA3C | 1.44 |
| 1563456_at | 285026 | LOC285026 | 1.441 |
| 222267_at | 84928 | FLJ14803 | 1.442 |
| 204714_s_at | 2153 | F5 | 1.477 |
| 213139_at | 6591 | SNAI2 | 1.483 |
| 225710_at | 59345 | GNB4 | 1.486 |
| 224840_at | 2289 | FKBP5 | 1.52 |
| 223169_s_at | 58480 | RHOU | 1.642 |

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|-------------|--------|---------|-------|
| 204560_at | 2289 | FKBP5 | 1.696 |
| 241868_at | | | 1.714 |
| 201739_at | 6446 | SGK | 1.775 |
| 235445_at | | | 1.783 |
| 234277_at | | | 1.835 |
| 1553645_at | 285025 | CCDC141 | 1.836 |
| 223487_x_at | 59345 | GNB4 | 1.842 |
| 209185_s_at | 8660 | IRS2 | 1.909 |
| 225688_s_at | 90102 | PHLDB2 | 1.922 |
| 209348_s_at | 4094 | MAF | 2.04 |
| 230846_at | | | 2.049 |
| 203914_x_at | 3248 | HPGD | 2.12 |
| 229327_s_at | | | 2.293 |
| 235146_at | | | 2.36 |
| 211548_s_at | 3248 | HPGD | 2.412 |

LNCaP cells were transfected by nucleofection with either C/EBP α or vector. After 48h, the cells were treated with either R1881(1 nM) or vehicle for 6 h.. Nucleofection resulted in 60% transfection efficiency as determined by co-transfected GFP. The mRNA profile was determined using replicate samples by Affymetrix microarray analysis. The Table lists only genes that were activated by R1881 in 6 h by ≥ 2 -fold in the absence of C/EBP α .. The Table shows the effect of ectopic C/EBP α on the fold activation of the corresponding genes; a value of 1 indicates that R1881 stimulation was unaffected by C/EBP α . The values are not adjusted for the transfection efficiency. The *P* values for the fold changes were <0.05.