Supplementary Figures

**Fig. S1.** AR-level in CIARE and SelARE. The expression level of AR in CIARE and SelARE was compared via Western blot analysis to the level in some well-known prostate cancer cell lines: LNCaP and VCaP. In each lane, 50 µg protein of whole cell extract was loaded and GAPDH was used as sample loading control. Antibodies against GAPDH (sc-32233 from Santa Cruz Biotechnology) and AR (in-house antibody against N-terminus of AR) were used.

**Fig. S2.** CIARE responds to androgen-like substances. (A) Dose-response curve representing the response of CIARE to DHT, T and R1881. In CIARE, the EC$_{50}$ of DHT, T and R1881 were 0.33 nM, 1.43 nM and 0.224 nM, respectively. (B) Specific response of CIARE to androgen-like substances: 1 µM Medroxyprogesterone acetate (MPA), 1 µM Mesterolone (Mes), 1 µM 5α-Androstanediol (5α-Adiol) and 0.1 µM Dihydrotestosterone (DHT). The screening system was not activated by other nuclear receptor ligands: 1 µM Aldosterone (Ald), 1 µM Progesterone (Pro), 1 µM Estradiol (E2), 0.1 µM Vitamine D (Vit D), 1 µM Hydroxycorticosterone (OH-Cort) and 1 µM Dexamethasone (Dex).

**Fig. S3.** MEL-3 has no agonistic properties on CIARE. Dose-response bars of 10, 1, 0.1 and 0.01 µM MEL-3 and MEL-3.1 in absence of DHT. RD162 and Bic were included for comparison. Results were given in % of the luciferase activity of cells treated with 100 nM DHT.

**Fig. S4.** MEL-3 does not induce apoptosis via Caspase-3 activation. Western Blot Analysis of whole cell extracts of LNCaP (A), VCaP (B) and LAPC4 (C) after 72 hour treatment with 10 µM MEL-3, RD162 or Bic. Etoposide (20 µM) and Docetaxel (0.1 µM) were used as apoptosis-inducing agent. GAPDH was used as sample loading control. Antibodies against GAPDH (sc-32233 from Santa Cruz Biotechnology), AR (in-house antibody against N-terminus of AR), Caspase-3 (8G10 from BIOKE) and Cleaved Caspase-3 (5A1E from BIOKE) were used.
**Fig. S5.** MEL-3 does not affect AR mRNA levels in LAPC4 and LNCaP cells. Quantitative Real Time PCR analysis of AR expression after 18 hours treatment with 1 nM R1881 supplemented with 10 µM MEL-3, RD162 or Bic. Error bars represent standard deviations of 2 independent experiments performed in triplicate.